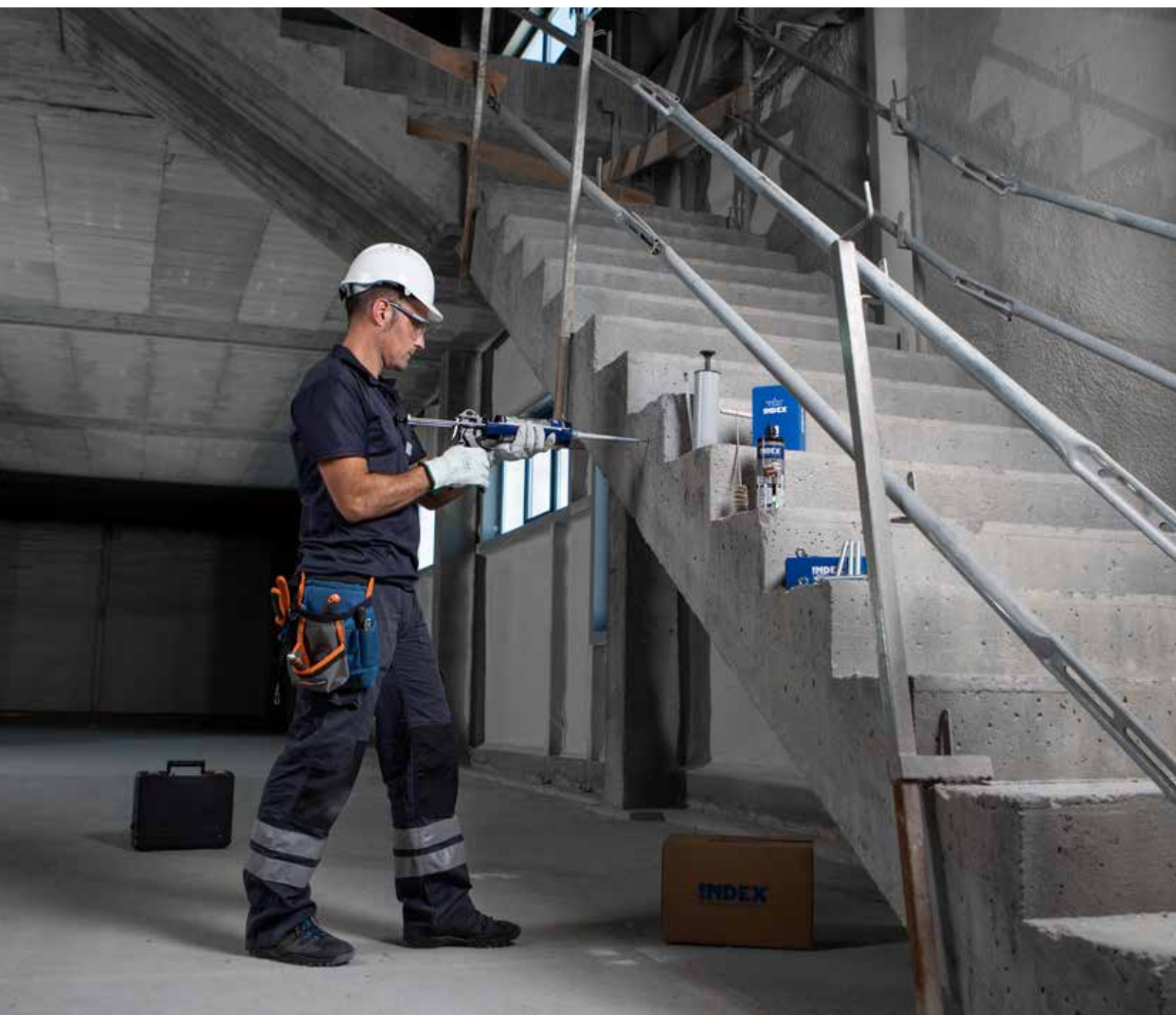


GENERALCATALOGUE  
**2023**



**INDEX**<sup>®</sup>  
A PERFECT FIXING

A  
PERFECT  
FIXING

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**INDEX**<sup>®</sup>  
A PERFECT FIXING



A PERFECT FIXING for  
**YOUR BUSINESS**







At **INDEX®**, we are manufacturers and industrial suppliers of fixing systems, offering global solutions adapted to your business needs.

***BUT WE ARE MUCH MORE THAN THAT. WE ARE A LARGE TEAM ENGAGED IN CONTINUOUS RESEARCH, DEVELOPMENT AND INNOVATION, AND, LET'S FACE IT, WE'RE MORE THAN A LITTLE OBSESSED WITH ACHIEVING OUR GOAL: TO PROVIDE THE PERFECT FIXING.***

Whatever the size of your business, at **INDEX®**, we will find the perfect fixing for your needs.



**WHY IS INDEX<sup>®</sup>  
A PERFECT  
FIXING FOR YOUR  
BUSINESS?**

At **INDEX<sup>®</sup>**, we believe that nothing is impossible when it comes to striving for perfection. Therefore, we continuously invest in new products, approvals, production processes, and technological resources to meet all the demands of the market.

These are just some of the reasons why  
**INDEX<sup>®</sup> STANDS OUT**



## AVAILABILITY AND WIDE PRODUCT RANGE

Over 10,000 products permanently in stock (guaranteed).



## WE WORK WITH THE CHANNEL

We sell through the distribution channel, enabling us to gain first-hand market knowledge.



## WE ARE EXPERT MANUFACTURERS

Over 30 years of experience in manufacturing fixing systems enables us to ensure the maximum quality of all our products, the best service, and competitive overall costs.



## CERTIFIED QUALITY

We hold the most important certificates and approvals, verifying that all of our products meet the highest quality standards.



## INTERNATIONAL PRESENCE

We are a global company with sales in more than 90 countries on the five continents and facilities in Spain, China and Mexico.



## ENGINEERING AND TECHNICAL SUPPORT SERVICES

We support our customers with structural design and calculations, joint site visits, and technical training on topics related to fixing systems.



## QUALITY CUSTOMER SERVICE

Our customers are at the heart of everything we do. We have a team of over 300 people at your service.



## INDEX SPACE ESTUDIO

We have the perfect display solution for all our customers, whatever their business.





## AVAILABILITY AND WIDE PRODUCT RANGE

We are specialists in anchors, screws, clamps, and installation systems. We have the widest range of products, with over 10,000 items permanently in stock (guaranteed) at our facilities in Spain, China, and Mexico (over 45,000 m<sup>2</sup>).



**WE HAVE ALL THE FIXINGS YOU COULD POSSIBLY NEED AND WE ARE CONSTANTLY INCORPORATING NEW PRODUCTS: anchors, screws, clamps, installation systems, etc.**







## **WE ARE EXPERT MANUFACTURERS**

Our control over the entire production process combined with over 35 years of experience in manufacturing fixing systems enables us to ensure the maximum quality of all our products, the best service, and competitive overall costs.



**OVER 35 YEARS OF  
EXPERIENCE**







## INTERNATIONAL PRESENCE

We sell in more than 90 countries on the five continents, and our products have been used in the largest construction projects worldwide.







## QUALITY CUSTOMER SERVICE

To guarantee the perfect fixing, we have a team of over 300 people at your service and 45,000 m<sup>2</sup> facilities with a 22,000 pallet capacity, guaranteeing a delivery time of 24-48 hours and a fast response to any queries you may have.



**OVER 300 PEOPLE AT YOUR SERVICE**





## WE WORK WITH THE CHANNEL

At **INDEX®**, we sell through the distribution channel, enabling us to interact directly with our customers. We operate in the most important channels, offering product ranges adapted to each channel and highly qualified professionals to provide you with the best service.







## CERTIFIED QUALITY

Our obsession with perfection drives us to continually expand our certifications and approvals from independent laboratories and the primary authorities, ensuring the maximum quality of our products and management systems.

### HOMOLOGACIONES



European Technical Assessment



European Conformity



Seismic Assessment



ICC-ES®



Fire resistance



Underwriters Laboratories



FM Assessment



Leadership in Energy and Environmental Design



Low VOC emissions



Water Regulations Advisory Scheme



VdS



Conformidad Reino Unido



PAHs



REACH



RoHS

### CERTIFICATIONS



**OUR COMMITMENT TO QUALITY THROUGH THE TÜV CERT CERTIFICATION GUARANTEES THAT INDEX® HAS IMPLEMENTED A QUALITY MANAGEMENT SYSTEM THAT COMPLIES WITH THE ISO 9001:2015 STANDARD**



## **ENGINEERING AND TECHNICAL SUPPORT SERVICES**

We offer full technical consultancy through our team of specialist engineers. We have a technical assistance service, our own specialised software, and the most extensive range of technical documentation.

And most importantly, our team will support you in structural design and calculations, site visits, and technical training on everything related to fixing systems.

### **TECHNICAL ASSISTANCE AND CONSULTING SERVICE**



### **TECHNICAL TRAINING**



### **ENGINEERING SERVICES AND CALCULATIONS**



## SPECIALISED SOFTWARE



INDEXcal



INDEXwood

We have the best software to meet the needs of each specific case.

**INDEXcal** software to calculate anchors.

**INDEXwood** software for the calculation of timber structure connections.

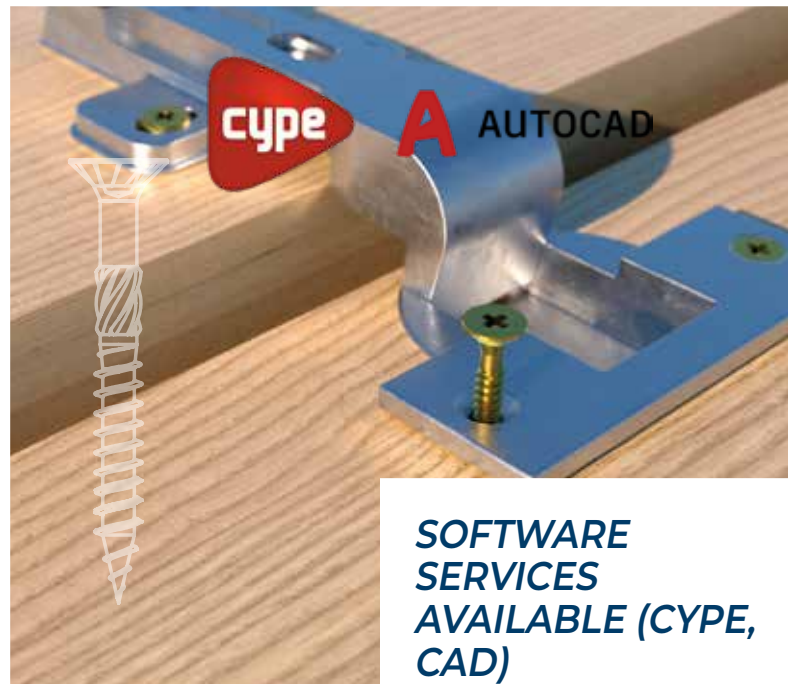
**INDEXmor** online tool to calculate the required number of chemical cartridges according to different parameters.



INDEXmor



WIDE RANGE OF TECHNICAL DOCUMENTATION AVAILABLE



SOFTWARE SERVICES AVAILABLE (CYPE, CAD)





INDEX Space Studio is the INDEX® customised display design and installation service for customers.

This service is unique to the market and 100% customisable according to the specific needs of each customer (e.g., product, packaging format, rotation, and/or business type), aiming to maximise the sales space.







## ADVANTAGES AND CHARACTERISTICS

- **CUSTOMISABLE.** Installation service adapted to the needs of each business.
- **100% OPTIMISED INSTALLATIONS.** The system is designed to maximise the available space at the point of sale.
- **MULTIPLE SOLUTIONS.** We offer a wide range of display solutions. Gondola, wall, end cap, island, promotional, etc.
- **QUALITY AND SAFETY.** We work with high-quality furniture that guarantees the maximum safety and robustness of all components.
- **VERSATILITY.** The system is compatible with all **INDEX®** products and packaging.
- **WE OPTIMISE THE RESTOCKING PROCESS.** Aware of the importance of facilitating the restocking and maintenance of shelves, our furniture and packaging guarantee the most ergonomic and practical set-up.
- **MAXIMUM PRODUCT VISIBILITY.** Designed to improve the end customer's purchasing decisions. We offer multiple visual merchandising solutions that complement and improve the installation.



## HOW DOES IT WORK?

*INDEX SPACE STUDIO has 6 easy steps:*

### 1. ANALYSIS

The **INDEX**® sales team works with the customer to analyse their needs (e.g., available space, products to be incorporated, type of packaging, etc.)

### 2. DESIGN

With the information obtained, the specialised installation team organises and optimises the product selection.

### 3. PRESENTATION

The proposed installation solution is presented with a 3D simulation of the shelving and the planogram, showing the arrangement of the product selection.

### 4. PREPARATION AND SHIPPING

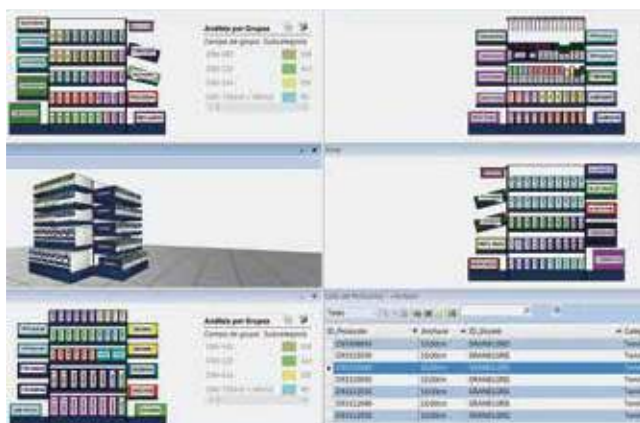
To facilitate display assembly, new installation shipments are prepared separately from other usual orders.

### 5. ASSEMBLY

The **INDEX**® specialised assembly team carries out the entire initial assembly. Installation of the furniture, location of the product, and installation of merchandising elements.

### 6. MAINTENANCE AND MONITORING

We ensure regular inspections of each shelf installation, proposing possible improvements, maintaining it in optimal and updated conditions, and facilitating restocking.







# TYPES OF SHELVES

## GONDOLA



### SLOPING SHELVES

Improves the display of all products. Recommended for window box and INDEXmix display formats.



### BULK DRAWERS

Available in metal and recycled plastic. Ideal for the presentation of bulk products.



### HOOKS

Available in 30, 40 and 50 cm. Recommended for displaying blister packs and EASYkits products.



### STRAIGHT SHELVES

Suitable for the presentation of heavy products such as professional boxes and containers. Combined with separators, it is perfect for chemicals, silicones, and polyurethane foams.

## PROMOTIONAL DISPLAYS AND OTHERS



## ISLAND

### Possible combinations.

Measurements per unit:  
100 x 50 x 150 cm (W x D x H)



**3 units**  
100 x 150 x 150 cm



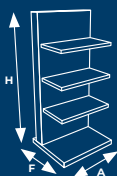
**4 units**  
100 x 200 x 150 cm



**6 units**  
100 x 300 x 150 cm



**8 units**  
100 x 400 x 150 cm



**SIZES AVAILABLE IN STOCK** for gondola/wall, end cap, and island displays:

- **W:** 100 cm.
- **H:** 165, 195 and 240 cm.

Other sizes available **upon request**.

(Delivery time of 4 weeks):

- **W:** 50, 70, 85 and 130 cm.
- **H:** 135, 150, 225 and 255 cm.
- **D:** 50 cm.



## TYPES OF PACKAGING

Aware of varying quantity and packaging needs, INDEX® has developed different alternatives to meet the specific needs of each user.

All our packaging is made from recyclable, 100% sustainable, and environmentally friendly materials.

We facilitate the identification and selection of products with our colour-coded labelling system.







### PROFESSIONAL BOX

Designed with highly resistant recycled cardboard to withstand the most demanding jobs.



### BOX WITH WINDOW

Visual and appealing. Recommended for automatic sales shelves.



### BLISTER PACKS & EASYkits

The best solution for customers in need of small quantities.



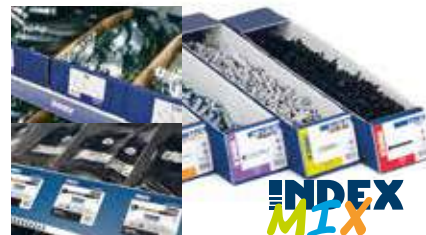
### PLASTIC CONTAINERS

These are the perfect solution for large installers. They facilitate on-site handling and have an appealing design.



### SELF SERVICE BAGS

Ready to be placed on the shelf. Intermediate quantities between professional boxes and blister packs.



### BULK

Available for anchors, screws, clamps, and cable ties. A good solution for installations with automatic sales spaces.





# VISUAL MERCHANDISING

At INDEX we offer our distributors a wide range of aids to promote and communicate our products at the point of sale, such as sets of shelves, posters, totems, stickers, and much more!



**TOP POSTERS**



**POSTERS FOR LOW GONDOLAS**



**LABEL HOLDERS FOR SHELVES**



**STOPPERS FOR SHELVES**



**FLOOR VINYL FOR MURALS**



**FLOOR VINYL FOR ISLANDS**



**BANNERS**



**PRODUCT POSTERS**



**OUTDOOR SIGNS**

















**STICKERS FOR SHOP WINDOWS**
















**ADHESIVES FOR FLOORS**

# WE EXPAND RANGE

## RIGGING HARDWARE

|   |   |
|---|---|
|    | <b>SJ-Z</b> <b>EXPANSION</b><br>Wire rope clip DIN 741. Zinc-plated             |
|    | <b>SJ-A4</b> <b>NEW</b><br>Wire rope clip DIN 741. A4 Stainless steel           |
|    | <b>SJ-O</b> <b>NEW</b><br>Oval cable clip. Zinc-plated                          |
|    | <b>SJ-PD</b> <b>NEW</b><br>Flat cable clip. Double. Zinc-plated                 |
|    | <b>SJ-PD A4</b> <b>NEW</b><br>Flat cable clip. Double. A4 Stainless steel       |
|    | <b>SJ-PS</b> <b>NEW</b><br>Flat cable clip. Simple. Zinc-plated                 |
|   | <b>SJ-PS A4</b> <b>NEW</b><br>Flat cable clip. Simple. A4 Stainless steel       |
|  | <b>TS-GA</b> <b>EXPANSION</b><br>Turnbuckle hook/ring DIN-1480. Zinc-plated     |
|  | <b>TS-GA A4</b> <b>NEW</b><br>Turnbuckle hook/ring DIN-1480. A4 Stainless steel |
|  | <b>TS-GG</b> <b>NEW</b><br>Turnbuckle hook/hook DIN-1480. Zinc-plated           |
|  | <b>TS-GG A4</b> <b>NEW</b><br>Turnbuckle hook/hook DIN-1480. A4 Stainless steel |
|  | <b>TS-AA</b> <b>NEW</b><br>Turnbuckle ring/ring DIN-1480. Zinc-plated           |
|  | <b>TS-AA A4</b> <b>NEW</b><br>Turnbuckle ring/ring DIN-1480. A4 Stainless steel |
|  | <b>TS-VS</b> <b>NEW</b><br>Welding rod turnbuckle                               |

|   |   |
|---|---|
|    | <b>EV-H</b> <b>EXPANSION</b><br>Ring nut D-582. Zinc-plated       |
|    | <b>EV-H A4</b> <b>NEW</b><br>Ring nut D-582. A4 Stainless steel   |
|    | <b>EV-M</b> <b>EXPANSION</b><br>Ring nut D-580. Zinc-plated       |
|    | <b>EV-M A4</b> <b>NEW</b><br>Ring nut D-580. A4 Stainless steel   |
|    | <b>GR-Z</b> <b>EXPANSION</b><br>Straight shackle. Zinc plated     |
|    | <b>GR-A4</b> <b>NEW</b><br>Straight shackle. A4 Stainless steel   |
|   | <b>GS-Z</b> <b>NEW</b><br>Zinc plated "S"                         |
|  | <b>GD-Z</b> <b>EXPANSION</b><br>Thimble DIN-6899/A. Zinc plated   |
|  | <b>GD-A4</b> <b>NEW</b><br>Thimble DIN-6899/A. A4 Stainless steel |
|  | <b>GI-Z</b> <b>NEW</b><br>Lyre shackle. Zinc plated               |
|  | <b>GI-A4</b> <b>NEW</b><br>Lyre shackle. A4 Stainless steel       |
|  | <b>MQ-B</b> <b>NEW</b><br>Firefighter carabiner                   |
|  | <b>MQ-BS</b> <b>NEW</b><br>Firefighter carabiner with lock        |

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### NEW SIZES

**THE and TFE**  
Concrete screw anchor. Homologado ETE Opt.1.  
Hexagonal head



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**HEA and HEA + ARVUL**  
Screw for direct fixing.  
Hexagonal head



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**AUTO and AUTO + ARVUL**  
Self-drilling screw for beam, hexagonal head



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**PS3 and PS5**  
Self-drilling screw with hexagonal head for sandwich panels



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# WE EXPAND RANGE

## INSTALLATION SYSTEMS AND FIXINGS FOR PHOTOVOLTAIC PANELS



Clamps and gauges for assembling panels

**NEW 30 mm CLAMP**



Profiles, junctions, guides and joints for the support structure

**NEW PROFILES**



Connectors + accessories for assembling solar structures

**NEW SIZES**



Triangles for installing solar panels



Adjustable accessories for installing solar panels

**NEW SOLUTIONS**



Direct fastening accessories for installing solar panels

**NEW SCREWS**



Watertightness accessories for installing solar panels



Kits for solar installations

**NEW KITS**



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### OTHER NEWS

#### MTH-AT

Opt.7 ETA Assessed. ATLANTIS C4-M shaft. ATLANTIS C4-M clip



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#### MTP-AT

Opt.1 ETA Assessed. ATLANTIS C4-M shaft. A4 Stainless clip



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#### TXE

Concrete screw hexagonal with Bimetal point. Stainless steel A4



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#### HE-HO SDS and HE-HC SDS

Stop drill bit for HE-HO and HE-HC



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#### TDR

Self-tapping repair screw



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#### ARPAR and ARPAR A2

Umbrella washer. Galvanized and A2 stainless steel



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#### TN4S-A and TN4S + TP-PO

4-way expansion plug with collar






















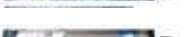









































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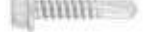























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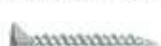








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## Quick beam attachment system



















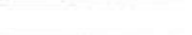






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## Stainless range

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|            | HI-CI      |  | 350 |  |  | DIN-7504-N HP A2     | 357 |  |
|            | AVR        |  | 350 |  |  | RS-A2                | 357 |  |
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|            | RE-IN      |  | 352 |  |  | DIN-933 A2           | 360 |  |
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| <b>NEW</b> | SJ-PS A4   |  | 352 |  |  | DIN-603 A2           | 361 |  |
| <b>NEW</b> | SJ-PD A4   |  | 353 |  |  | DIN-934 A2           | 361 |  |
| <b>NEW</b> | TS-GA A4   |  | 353 |  |  | DIN-985 A2           | 362 |  |
| <b>NEW</b> | TS-AA A4   |  | 353 |  |  | DIN-6923 A2          | 362 |  |
| <b>NEW</b> | TS-GG A4   |  | 353 |  |  | DIN-125 A2           | 362 |  |
| <b>NEW</b> | EV-H A4    |  | 354 |  |  | DIN-127 A2           | 363 |  |
| <b>NEW</b> | EV-M A4    |  | 354 |  |  |                      |     |  |

# ICONOGRAPHY

## MATERIALS AND PRODUCT COATINGS

|                      |                      |                       |                   |                   |
|----------------------|----------------------|-----------------------|-------------------|-------------------|
| Stainless A2         | Stainless A4         | Stainless             | Bimetal           | Atlantis C4-M     |
| Atlantis C3-H        | Atlantis C3-M        | Atlantis C3-L         | Atlantis C2-H     | Atlantis C2-M     |
| Atlantis C2-L        | Yellow zinc plated   | Zinc-plated           | Zinc-plated black | Zinc-plated white |
| Phosphated coated    | Blue galvanised      | Zamak                 | Brass             | Copper            |
| Frosted              | Aluminium            | Polyethylene          | Nylon             | PVC               |
| Plastic-coated black | Plastic-coated white | Plastic-coated yellow | Polypropylene     | Butene            |
| EPDM                 |                      |                       |                   |                   |

## MATERIALS FOR USE

|                             |                      |                                    |                      |                    |
|-----------------------------|----------------------|------------------------------------|----------------------|--------------------|
| Aluminium carpentry         | PVC carpentry        | Gutter                             | IPN beam             | Ventilation pipe   |
| Plasterboard                | Cable                | Chain                              | Rope                 | Chrome-plated pipe |
| Sheet metal - heavy profile | Sheet metal assembly | Wood veneer                        | Fibre cement         | Butane pipe        |
| Wood - metal                | Plaster              | Reinforced concrete                | Cracked concrete     | Cast pipe          |
| Concrete                    | Hollow concrete      | Solid brick                        | Copper pipe          | Gas pipe           |
| Thermo-clay                 | Stone                | Adobe brick                        | PVC pipe             | Cable              |
| Fine hardwood               | Pine                 | Aerated concrete                   | Plastic pipe         | PPR pipe           |
| Hardwood                    | Wood panel           | Hollow brick                       | Stainless pipe       | Steel pipe         |
| Alveolar slab               | Tile                 | Installation of aluminium profiles | Fire protection pipe | Flexible pipe      |
| High-density ETIS           | Low-density ETIS     | Ceramic                            | Tile                 | Porcelain          |
| Aluminium                   | Glass                | Brick                              |                      |                    |

## RECESSES

|           |        |                   |                    |    |
|-----------|--------|-------------------|--------------------|----|
| Hexagonal | Square | Slotted hexagonal | Phillips hexagonal | PH |
| Flat      | Allen  | TX                | PZ                 |    |


















## LOADS

|             |              |            |             |
|-------------|--------------|------------|-------------|
| Light loads | Medium loads | High loads | Heavy loads |
|-------------|--------------|------------|-------------|











# PROTECTION AGAINST CORROSION

## CORROSION CATEGORIES

| CORROSION CATEGORIES | CORROSION LEVEL  | TYPICAL ENVIRONMENTS: EXAMPLES OF ISO9223   |   | INDEX® COATINGS AVAILABLE  |
|----------------------|------------------|---|---|--|
|                      |                  | INDOOR  | OUTDOOR   |  |
| <b>C1</b>            | <b>VERY LOW</b>  | Heated spaces with low relative humidity and insignificant contamination, such as offices, schools, museums.  | Dry or cold areas, atmospheric environment with very low contamination and little humid weather, such as certain deserts, central Arctic or Antarctic.  |  ZINC<br> ZINC-PLATED BLACK<br> ZINC-PLATED WHITE<br> PHOSPHATED COATED<br> PLASTIC COATED            |
| <b>C2</b>            | <b>LOW</b>       | Unheated spaces with variable temperature and relative humidity. Low condensation frequency and low contamination, such as storage, sports pavilions.   | Temperate areas, atmospheric environment with low contamination (SO <sub>2</sub> : <5 g/m <sup>3</sup> ), such as rural areas and small cities. Dry or cold areas, atmospheric environment with little humid weather, such as deserts and sub-Arctic areas.   |  ATLANTIS C2-H<br> ATLANTIS C2-M<br> ATLANTIS C2-L<br> YELLOW ZINC PLATED<br> BLUE ORGANIC GALVANISED |
| <b>C3</b>            | <b>MEDIUM</b>    | Spaces with moderate condensation frequency and moderate contamination from a production process, such as food processing plants, laundries, breweries, dairies.                                | Temperate areas, atmospheric environment with medium contamination (SO <sub>2</sub> : 5µ g/m <sup>3</sup> to 30µ g/m <sup>3</sup> ) or some chloride effects, such as urban areas, coastal areas with low chloride deposition. Tropical and subtropical area, atmosphere with low contamination.  |  ATLANTIS C3-H<br> ATLANTIS C3-M<br> ATLANTIS C3-L<br> INOX AISI 430<br>STAINLESS AISI 430   |
| <b>C4</b>            | <b>HIGH</b>      | Spaces with high condensation frequency and high contamination from a production process, such as industrial processing plants.   | Temperate areas, atmospheric environment with high contamination (SO <sub>2</sub> : 30 g/m <sup>3</sup> a 90 g/m <sup>3</sup> ) or substantial chlorides effects, such as contaminated urban areas, industrial areas, coastal areas without salt water spray (1-10 km), or exposure to strong salinity effects. Tropical and subtropical areas, atmosphere with medium contamination. |  ATLANTIS C4-M<br> A2 INOX AISI 304<br>STAINLESS A2 (AISI 304)   |
| <b>C5</b>            | <b>VERY HIGH</b> | Spaces with a very high frequency of condensation and/or high contamination from a production process, such as mines, industrial vaults, unventilated spaces in tropical and subtropical areas. | Temperate and subtropical areas, atmospheric environment with very high contamination (SO <sub>2</sub> : 90 g/m <sup>3</sup> to 250 g/m <sup>3</sup> ) and/or significant chloride effects, such as industrial areas, coastal areas (0-1 km), protected installations on the coast.   |  A4 INOX AISI 316<br>STAINLESS A4 (AISI 316)  |

## QUICK SELECTION GUIDE

|   |  | CORROSION CATEGORIES |    |    |    |    |
|---|--|----------------------|----|----|----|----|
|   |  | C1                   | C2 | C3 | C4 | C5 |
| ENVIRONMENTAL AND/OR ATMOSPHERIC CONDITIONS |  INDOOR WITHOUT CONDENSATION                          | ✓                    |    |    |    |    |
|   |  INDOOR WITH TEMPORARY CONDENSATION                   |                      | ✓  |    |    |    |
|   |  OUTDOOR IN RURAL AREAS WITH VERY LOW CONTAMINATION   |                      | ✓  |    |    |    |
|   |  OUTDOOR WITH LOW CONTAMINATION                       |                      |    | ✓  |    |    |
|   |  OUTDOOR WITH MODERATE CONCENTRATION OF CONTAMINATION |                      |    |    | ✓  |    |
|   |  COASTAL AREAS  |                      |    |    |    | ✓  |
|   |  OUTDOOR WITH STRONG INDUSTRIAL CONTAMINATION         |                      |    |    |    | ✓  |
|   |  AREAS CLOSE TO ROADS                                 |                      |    |    |    | ✓  |

\* The selection indicated in the table is for expected exposures of 25 years, providing proper maintenance.

\* In the case of installations with approved products, the use in these environments is not covered by European Technical Approval (ETA) of anchors, where it is established that only stainless steel anchors may be installed outdoors and assuming a working life of the anchor of at least 50 years.





# METAL FIXINGS

A  
PERFECT  
FIXING  
**INDEX**



The male anchors are an effective professional solution for installing elements with high performance guarantees in cracked and non-cracked concrete. They are available in a wide range that includes, among others, anchors with European ETA 12/0397 approval for use in cracked and non-cracked concrete, C1&C2 seismic approval for fire resistance, and European ETA 05/0242 approval for use in non-cracked concrete. They are suitable for installation in both indoor and outdoor applications thanks to the coating options (ATLANTIS C3-L and zinc-plated) and materials available (A2 stainless, A4 stainless and steel).



## DESIGN AND GEOMETRY



**Shaft retracts** as thread protection during anchor installation.



**Nut.** The internal threading makes it possible to fit the screw, facilitating the securing and connection of detachable elements. It is supplied pre-assembled.



**Washer.** It ensures optimal precision of the element being installed. It is supplied with a pre-assembled DIN 125 washer. Optionally, it can be supplied with DIN 9021 (wide series) or DIN 440 (for wood) washers.



**The lettering on the shaft** indicates its length, letting you know the length of the anchor once installed. It is important to check the thickness to be fastened in order to properly choose the necessary anchor length.



**Marked with the installation depth.** The line painted on the shaft marks the depth recommended by the approval to insert the anchor into the drill.



**Shaft edge.** It allows the clip to be held in position during installation.



**Expansion clip and cone.** The cone retracts, expanding the clip and exerting pressure on the base material to enable fastening.



**Identification.** Model and measurement indicated on the clip.

## APPLICATIONS



- Structural applications
- Structural beams and columns
- Stadium seats
- Wood-to-concrete structures
- Railings and fencing
- Shelving and racks
- Structural beams and columns
- Fastening of non-structural elements like signs, machines, boilers, posters, billboards, etc.
- Other installations

## QUALITIES AND ADVANTAGES



### MAXIMUM VERSATILITY. VARIABLE ANCHOR DEPTH

It can be installed with up to two different screwing depths in M8, M10, M12, M16\* and M20\*

\* In the MTH zinc-plated version

### MAXIMUM GUARANTEES. PRODUCTS APPROVED ACCORDING TO THE HIGHEST QUALITY STANDARDS.

- Approval ETA 12/0397 option 1 for installation in cracked and non-cracked concrete (C20/25-C50/60).
- Approval ETA 05/0242 option 7 for installation in non-cracked concrete (C20/25-C50/60).
- Seismic approval C1&C2.
- Approved for fire resistance R30-R120 in concrete.
- Confirmed suitability for the installation of sprinkler systems in accordance with the VdS CEA 4001 guidelines.



## 100% INDEX MANUFACTURED

This allows us to ensure a rigorous control of processes, guarantee the highest quality in our products, provide the best service and obtain a competitive global cost.

## RANGE



| PRODUCT              | MTP        | MTP-A4     | MTP-X            | MTP-AT           | MTP-G            | MTH       | MTH-AT           | MTH-A4     | MTH-A2     | MTA       |
|----------------------|------------|------------|------------------|------------------|------------------|-----------|------------------|------------|------------|-----------|
| AXIS                 | Z<br>ZINC  | A4<br>INOX | Z<br>ZINC        | ATLANTIS<br>C3-L | ATLANTIS<br>C3-L | Z<br>ZINC | ATLANTIS<br>C3-L | A4<br>INOX | A2<br>INOX | Z<br>ZINC |
| CLIP                 | A4<br>INOX | A4<br>INOX | ATLANTIS<br>C3-L | A4<br>INOX       | A4<br>INOX       | Z<br>ZINC | ATLANTIS<br>C3-L | A4<br>INOX | A2<br>INOX | Z<br>ZINC |
| CE<br>ETA 12/0397    | ✓          | ✓          | ✓                | ✓                | ✓                |           | ✓                |            |            |           |
| CE<br>ETA 05/0242    |            |            |                  |                  |                  | ✓         |                  | ✓          | ✓          |           |
| SEISMIC<br>C1&C2     | ✓          |            | ✓                |                  |                  |           |                  |            |            |           |
| FIRE<br>R30-R120     | ✓          | ✓          | ✓                | ✓                | ✓                | ✓         | ✓                | ✓          | ✓          |           |
| SPRINKLER<br>SYSTEMS | ✓          | ✓          | ✓                | ✓                | ✓                |           |                  |            |            |           |

### THE PERFECT COATING ACCORDING TO THE EXPECTED LEVELS OF CORROSION



**Atlantis C3-L coating:** valid for dry indoor conditions (50 years) or in C3-type outdoor environments according to ISO 9223, for a period of 25 years.



**Zinc coating:** suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.



**A4 Stainless Steel:** Suitable for indoor and outdoor applications, in coastal or industrial areas, areas exposed to high pollution levels and areas near roads.



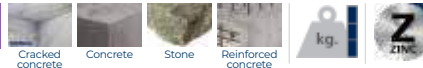
**A2 Stainless Material:** valid for indoor spaces with high frequency of condensation or outdoor environments not located near coastal or highly polluted areas.

Through bolt anchor for heavy loads in cracked & uncracked concrete

# MTP

02 Technical info P. 377

SOLID



| CODE      | SEISMICASSESSMENT | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |     |
|-----------|-------------------|---------------|-----------|------------------------|----------------------|-----|-----|
| • AP08050 | -                 | M8 x 50 Ø8    | 81,023    | 2                      | A                    | 100 | 800 |
| AP08075   | -                 | M8 x 75 Ø8    | 85,817    | 9                      | C                    | 100 | 600 |
| AP08095   | -                 | M8 x 95 Ø8    | 90,503    | 29                     | E                    | 100 | 600 |
| AP08115   | -                 | M8 x 115 Ø8   | 111,040   | 49                     | G                    | 100 | 400 |
| AP10090   | C1                | M10 x 90 Ø10  | 117,340   | 10                     | E                    | 100 | 400 |
| AP10105   | C1                | M10 x 105 Ø10 | 139,253   | 25                     | F                    | 50  | 300 |
| AP10115   | C1                | M10 x 115 Ø10 | 147,357   | 35                     | G                    | 50  | 200 |
| AP10135   | C1                | M10 x 135 Ø10 | 169,343   | 55                     | H                    | 50  | 200 |
| AP10165   | C1                | M10 x 165 Ø10 | 203,780   | 85                     | K                    | 50  | 200 |
| AP10185   | C1                | M10 x 185 Ø10 | 215,877   | 105                    | L                    | 50  | 150 |
| • AP12080 | -                 | M12 x 80 Ø12  | 167,843   | 4                      | D                    | 50  | 300 |
| AP12100   | C1 & C2           | M12 x 100 Ø12 | 184,117   | 4                      | E                    | 50  | 200 |
| AP12110   | C1 & C2           | M12 x 110 Ø12 | 179,717   | 14                     | F                    | 50  | 200 |
| AP12120   | C1 & C2           | M12 x 120 Ø12 | 219,487   | 24                     | G                    | 50  | 200 |
| AP12130   | C1 & C2           | M12 x 130 Ø12 | 227,203   | 34                     | H                    | 50  | 200 |
| AP12150   | C1 & C2           | M12 x 150 Ø12 | 268,263   | 54                     | I                    | 50  | 100 |
| AP12180   | C1 & C2           | M12 x 180 Ø12 | 319,997   | 84                     | L                    | 50  | 150 |
| AP12200   | C1 & C2           | M12 x 200 Ø12 | 374,383   | 104                    | M                    | 50  | 150 |
| AP16145   | C1 & C2           | M16 x 145 Ø16 | 415,583   | 28                     | I                    | 25  | 100 |
| AP16175   | C1 & C2           | M16 x 175 Ø16 | 536,667   | 58                     | K                    | 25  | 50  |
| AP16220   | C1 & C2           | M16 x 220 Ø16 | 630,067   | 103                    | O                    | 25  | 50  |
| AP16250   | C1 & C2           | M16 x 250 Ø16 | 817,093   | 133                    | Q                    | 25  | 50  |
| AP20170   | -                 | M20 x 170 Ø20 | 810,907   | 32                     | K                    | 20  | 40  |
| AP20200   | -                 | M20 x 200 Ø20 | 964,243   | 62                     | N                    | 20  | 40  |
| AP24205   | -                 | M24 x 205 Ø24 | 1.866,060 | 35                     | N                    | 10  | 30  |
| AP24235   | -                 | M24 x 235 Ø24 | 2.064,973 | 65                     | P                    | 10  | 20  |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist

Opt.1 ETA Assessed. Zinc-plated shaft. Stainless clip



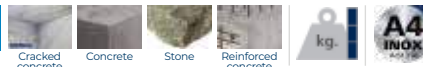
Also available with DIN 9021 washer. Ask for price and delivery time



Setting tool

02 Technical info P. 377

STAINLESS STEEL



| CODE      | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |     |
|-----------|---------------|-----------|------------------------|----------------------|-----|-----|
| APA408075 | M8 x 75 Ø8    | 346,407   | 9                      | C                    | 100 | 600 |
| APA408095 | M8 x 95 Ø8    | 391,750   | 29                     | E                    | 100 | 600 |
| APA408115 | M8 x 115 Ø8   | 513,663   | 49                     | G                    | 100 | 400 |
| APA408135 | M8 x 135 Ø8   | 594,280   | 69                     | H                    | 50  | 300 |
| APA410090 | M10 x 90 Ø10  | 610,620   | 10                     | E                    | 100 | 400 |
| APA410105 | M10 x 105 Ø10 | 652,970   | 25                     | F                    | 50  | 300 |
| APA410115 | M10 x 115 Ø10 | 719,317   | 35                     | G                    | 50  | 300 |
| APA410135 | M10 x 135 Ø10 | 862,897   | 55                     | H                    | 50  | 300 |
| APA410165 | M10 x 165 Ø10 | 1.029,647 | 85                     | K                    | 50  | 100 |
| APA410185 | M10 x 185 Ø10 | 1.101,957 | 105                    | L                    | 50  | 100 |
| APA412110 | M12 x 110 Ø12 | 886,577   | 14                     | F                    | 50  | 200 |
| APA412120 | M12 x 120 Ø12 | 951,137   | 24                     | G                    | 50  | 200 |
| APA412130 | M12 x 130 Ø12 | 1.032,820 | 34                     | H                    | 50  | 200 |
| APA412150 | M12 x 150 Ø12 | 1.206,967 | 54                     | I                    | 50  | 100 |
| APA412180 | M12 x 180 Ø12 | 1.335,113 | 84                     | L                    | 50  | 150 |
| APA412200 | M12 x 200 Ø12 | 1.406,207 | 104                    | M                    | 50  | 100 |
| APA416125 | M16 x 125 Ø16 | 1.825,197 | 8                      | G                    | 50  | 100 |
| APA416145 | M16 x 145 Ø16 | 2.048,510 | 28                     | I                    | 25  | 100 |
| APA416175 | M16 x 175 Ø16 | 2.682,920 | 58                     | K                    | 25  | 50  |
| APA416190 | M16 x 190 Ø16 | 2.778,400 | 73                     | L                    | 25  | 50  |
| APA416220 | M16 x 220 Ø16 | 2.959,253 | 103                    | O                    | 20  | 40  |
| APA420200 | M20 x 200 Ø20 | 4.566,043 | 62                     | M                    | 20  | 40  |
| APA420240 | M20 x 240 Ø20 | 5.240,703 | 102                    | P                    | 15  | 30  |
| APA420285 | M20 x 285 Ø20 | 6.165,123 | 147                    | S                    | 10  | 20  |

Opt.1 ETA Assessed. A4 Stainless steel shaft. A4 Stainless steel clip



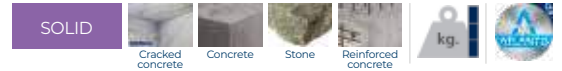
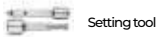
Setting tool

# MTP

Through bolt anchor for heavy loads in cracked & uncracked concrete

## NEW MTP-AT

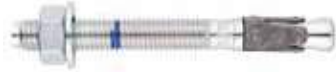
Opt.1 ETA Assessed. ATLANTIS C4-M shaft. A4 Stainless clip



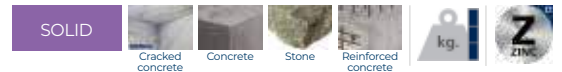
| CODE      | SEISMICASSESSMENT | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |     |
|-----------|-------------------|---------------|-----------|------------------------|----------------------|-----|-----|
| APAT08075 | -                 | M8 x 75 Ø8    | 136,019   | 9                      | C                    | 100 | 600 |
| APAT08095 | -                 | M8 x 95 Ø8    | 147,026   | 29                     | E                    | 100 | 600 |
| APAT08115 | -                 | M8 x 115 Ø8   | 170,010   | 49                     | G                    | 100 | 400 |
| APAT10090 | C1                | M10 x 90 Ø10  | 204,841   | 10                     | E                    | 100 | 400 |
| APAT10105 | C1                | M10 x 105 Ø10 | 221,355   | 25                     | F                    | 50  | 300 |
| APAT10115 | C1                | M10 x 115 Ø10 | 232,691   | 35                     | G                    | 50  | 200 |
| APAT10135 | C1                | M10 x 135 Ø10 | 255,888   | 55                     | H                    | 50  | 200 |
| APAT10165 | C1                | M10 x 165 Ø10 | 314,453   | 85                     | K                    | 50  | 200 |
| APAT10185 | C1                | M10 x 185 Ø10 | 334,940   | 105                    | L                    | 50  | 150 |
| APAT12100 | C1                | M12 x 100 Ø12 | 323,334   | 4                      | E                    | 50  | 200 |
| APAT12110 | C1                | M12 x 110 Ø12 | 355,667   | 14                     | F                    | 50  | 200 |
| APAT12120 | C1                | M12 x 120 Ø12 | 389,348   | 24                     | G                    | 50  | 200 |
| APAT12130 | C1                | M12 x 130 Ø12 | 421,794   | 34                     | H                    | 50  | 200 |
| APAT12150 | C1                | M12 x 150 Ø12 | 451,035   | 54                     | I                    | 50  | 100 |
| APAT12180 | C1                | M12 x 180 Ø12 | 502,428   | 84                     | L                    | 50  | 150 |
| APAT12200 | C1                | M12 x 200 Ø12 | 489,905   | 104                    | M                    | 50  | 150 |
| APAT16145 | C1                | M16 x 145 Ø16 | 728,364   | 28                     | I                    | 25  | 100 |
| APAT16175 | C1                | M16 x 175 Ø16 | 800,926   | 58                     | K                    | 25  | 50  |
| APAT16220 | C1                | M16 x 220 Ø16 | 995,913   | 103                    | O                    | 25  | 50  |
| APAT20170 | -                 | M20 x 170 Ø20 | 1.238,657 | 32                     | K                    | 20  | 40  |
| APAT20200 | -                 | M20 x 200 Ø20 | 1.250,544 | 62                     | N                    | 20  | 40  |

## MTP-X

Opt.1 ETA Assessed. Zinc-plated shaft. ATLANTIS C3-L clip



Also available with DIN 9021 washer. Ask for price and delivery time



| CODE       | SEISMICASSESSMENT | SIZE          | €/100   | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |     |
|------------|-------------------|---------------|---------|------------------------|----------------------|-----|-----|
| • APX08050 | -                 | M8 x 50 Ø8    | 71,073  | 2                      | A                    | 100 | 800 |
| APX08075   | C1                | M8 x 75 Ø8    | 75,260  | 9                      | C                    | 100 | 600 |
| APX08080   | C1                | M8 x 80 Ø8    | 77,517  | 14                     | D                    | 100 | 600 |
| APX08095   | C1                | M8 x 95 Ø8    | 81,563  | 29                     | E                    | 100 | 600 |
| APX08115   | C1                | M8 x 115 Ø8   | 100,103 | 49                     | G                    | 100 | 400 |
| APX10090   | C1 & C2           | M10 x 90 Ø10  | 105,777 | 10                     | E                    | 100 | 400 |
| APX10105   | C1 & C2           | M10 x 105 Ø10 | 119,847 | 25                     | F                    | 50  | 300 |
| APX10115   | C1 & C2           | M10 x 115 Ø10 | 125,737 | 35                     | G                    | 50  | 200 |
| APX10135   | C1 & C2           | M10 x 135 Ø10 | 156,650 | 55                     | H                    | 50  | 200 |
| APX10165   | C1 & C2           | M10 x 165 Ø10 | 182,893 | 85                     | K                    | 50  | 200 |
| APX10185   | C1 & C2           | M10 x 185 Ø10 | 201,963 | 105                    | L                    | 50  | 150 |
| • APX12080 | -                 | M12 x 80 Ø12  | 142,927 | 4                      | D                    | 50  | 300 |
| APX12100   | C1 & C2           | M12 x 100 Ø12 | 157,623 | 4                      | E                    | 50  | 200 |
| APX12110   | C1 & C2           | M12 x 110 Ø12 | 161,183 | 14                     | F                    | 50  | 200 |
| APX12120   | C1 & C2           | M12 x 120 Ø12 | 201,963 | 24                     | G                    | 50  | 200 |
| APX12130   | C1 & C2           | M12 x 130 Ø12 | 211,020 | 34                     | H                    | 50  | 200 |
| APX12150   | C1 & C2           | M12 x 150 Ø12 | 230,447 | 54                     | I                    | 50  | 100 |
| APX12180   | C1 & C2           | M12 x 180 Ø12 | 288,707 | 84                     | L                    | 50  | 150 |
| APX12200   | C1 & C2           | M12 x 200 Ø12 | 336,607 | 104                    | M                    | 50  | 150 |
| APX12220   | C1 & C2           | M12 x 220 Ø12 | 353,437 | 124                    | O                    | 25  | 50  |
| APX12255   | C1 & C2           | M12 x 255 Ø12 | 388,780 | 159                    | R                    | 25  | 50  |
| APX16145   | C1                | M16 x 145 Ø16 | 409,107 | 28                     | I                    | 25  | 100 |
| APX16175   | C1                | M16 x 175 Ø16 | 479,013 | 58                     | K                    | 25  | 50  |
| APX16220   | C1                | M16 x 220 Ø16 | 563,170 | 103                    | O                    | 25  | 50  |
| APX16250   | C1                | M16 x 250 Ø16 | 724,993 | 133                    | Q                    | 25  | 50  |
| APX20170   | C1 & C2           | M20 x 170 Ø20 | 731,463 | 32                     | K                    | 20  | 40  |
| APX20200   | C1 & C2           | M20 x 200 Ø20 | 835,040 | 62                     | M                    | 20  | 40  |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist

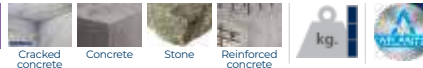


Through bolt anchor for heavy loads in cracked & uncracked concrete

MTP

02 Technical info P. 378



SOLID



MTP-G

Opt.1 ETA Assessed. ATLANTIS C3-L shaft. A4 Stainless steel clip



| CODE       | SEISMICASSESSMENT | SIZE          | €/100   | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |  |  |
|------------|-------------------|---------------|---------|------------------------|----------------------|---|---|
| • APG06060 | -                 | M6 x 60 Ø6    | 67,393  | 10                     | B                    | 200   | 1.200   |
| • APG06070 | -                 | M6 x 70 Ø6    | 69,460  | 20                     | C                    | 200   | 1.200   |
| • APG06100 | -                 | M6 x 100 Ø6   | 76,190  | 50                     | E                    | 200   | 800   |
| • APG08050 | -                 | M8 x 50 Ø8    | 89,030  | 2                      | A                    | 100   | 800   |
| • APG08060 | -                 | M8 x 60 Ø8    | 87,840  | 12                     | B                    | 100   | 800   |
| APG08075   | C1                | M8 x 75 Ø8    | 104,630 | 9                      | C                    | 100   | 600   |
| APG08095   | C1                | M8 x 95 Ø8    | 113,097 | 29                     | E                    | 100   | 600   |
| APG08115   | C1                | M8 x 115 Ø8   | 130,777 | 49                     | G                    | 100   | 400   |
| • APG10070 | -                 | M10 x 70 Ø10  | 136,783 | 5                      | C                    | 100   | 400   |
| APG10090   | C1                | M10 x 90 Ø10  | 157,570 | 10                     | E                    | 100   | 400   |
| APG10105   | C1                | M10 x 105 Ø10 | 170,273 | 25                     | F                    | 50  | 300   |
| APG10115   | C1                | M10 x 115 Ø10 | 178,993 | 35                     | G                    | 50  | 200   |
| APG10135   | C1                | M10 x 135 Ø10 | 196,837 | 55                     | H                    | 50  | 200   |
| APG10165   | C1                | M10 x 165 Ø10 | 241,887 | 85                     | K                    | 50  | 200   |
| APG10185   | C1                | M10 x 185 Ø10 | 261,543 | 105                    | L                    | 50  | 150   |
| • APG12080 | -                 | M12 x 80 Ø12  | 237,603 | 4                      | D                    | 50  | 300   |
| APG12110   | C1 & C2           | M12 x 110 Ø12 | 273,590 | 14                     | F                    | 50  | 200   |
| APG12130   | C1 & C2           | M12 x 130 Ø12 | 324,457 | 34                     | H                    | 50  | 200   |
| APG12150   | C1 & C2           | M12 x 150 Ø12 | 346,950 | 54                     | I                    | 50  | 100   |
| APG12180   | C1 & C2           | M12 x 180 Ø12 | 386,483 | 84                     | L                    | 50  | 150   |
| APG12200   | C1 & C2           | M12 x 200 Ø12 | 376,850 | 104                    | M                    | 50  | 150   |
| APG16125   | C1 & C2           | M16 x 125 Ø16 | 529,767 | 8                      | G                    | 25  | 100   |
| APG16145   | C1 & C2           | M16 x 145 Ø16 | 560,280 | 28                     | I                    | 25  | 100   |
| APG16175   | C1 & C2           | M16 x 175 Ø16 | 616,097 | 58                     | K                    | 25  | 50  |
| APG16220   | C1 & C2           | M16 x 220 Ø16 | 766,087 | 103                    | O                    | 25  | 50  |
| APG20170   | C1 & C2           | M20 x 170 Ø20 | 952,813 | 32                     | K                    | 20  | 40  |
| APG20200   | C1 & C2           | M20 x 200 Ø20 | 961,957 | 62                     | M                    | 20  | 40  |

- Non-assessed sizes
- Non-assessed sizes for Fire Resist



ADDITIONAL INFORMATION  
IN OUR NEW WEBSITE  
WWW.INDEXFIX.COM

# MTH

Through bolt anchor for heavy loads in uncracked concrete

## MTH

Opt.7 ETA Assessed. Zinc-plated shaft.  
Zinc-plated clip



Also available with DIN 9021 washer. Ask for price and delivery time

Setting tool

Technical info P. 379

SOLID



| CODE      | SIZE          | €/100   | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |       |
|-----------|---------------|---------|------------------------|----------------------|-----|-------|
| • AH06060 | M6 x 60 Ø6    | 44,450  | 2                      | B                    | 200 | 1.200 |
| • AH06070 | M6 x 70 Ø6    | 46,147  | 12                     | C                    | 200 | 1.200 |
| • AH06080 | M6 x 80 Ø6    | 47,837  | 22                     | D                    | 200 | 1.200 |
| • AH06090 | M6 x 90 Ø6    | 49,293  | 32                     | E                    | 200 | 1.200 |
| • AH06100 | M6 x 100 Ø6   | 51,347  | 42                     | E                    | 200 | 800   |
| • AH06110 | M6 x 110 Ø6   | 66,950  | 52                     | F                    | 200 | 800   |
| • AH06120 | M6 x 120 Ø6   | 70,290  | 62                     | G                    | 100 | 600   |
| • AH06130 | M6 x 130 Ø6   | 81,313  | 72                     | H                    | 100 | 600   |
| • AH06140 | M6 x 140 Ø6   | 81,890  | 82                     | I                    | 100 | 400   |
| • AH06150 | M6 x 150 Ø6   | 84,030  | 92                     | I                    | 100 | 400   |
| • AH06160 | M6 x 160 Ø6   | 90,530  | 102                    | J                    | 100 | 400   |
| • AH06170 | M6 x 170 Ø6   | 102,650 | 112                    | K                    | 100 | 400   |
| • AH06180 | M6 x 180 Ø6   | 112,777 | 122                    | L                    | 100 | 200   |
| AH08060   | M8 x 60 Ø8    | 55,020  | 3                      | B                    | 100 | 600   |
| AH08075   | M8 x 75 Ø8    | 58,173  | 5                      | C                    | 100 | 600   |
| AH08090   | M8 x 90 Ø8    | 63,067  | 20                     | E                    | 100 | 600   |
| AH08100   | M8 x 100 Ø8   | 67,290  | 30                     | E                    | 100 | 400   |
| AH08115   | M8 x 115 Ø8   | 78,950  | 45                     | G                    | 100 | 400   |
| AH08120   | M8 x 120 Ø8   | 86,400  | 50                     | G                    | 100 | 400   |
| AH08130   | M8 x 130 Ø8   | 90,973  | 60                     | H                    | 100 | 400   |
| AH08155   | M8 x 155 Ø8   | 137,997 | 85                     | J                    | 100 | 200   |
| AH10070   | M10 x 70 Ø10  | 72,043  | 3                      | C                    | 100 | 400   |
| AH10080   | M10 x 80 Ø10  | 82,380  | 13                     | D                    | 100 | 400   |
| AH10090   | M10 x 90 Ø10  | 85,893  | 10                     | E                    | 100 | 400   |
| AH10100   | M10 x 100 Ø10 | 99,040  | 20                     | E                    | 100 | 400   |
| AH10120   | M10 x 120 Ø10 | 103,913 | 40                     | G                    | 50  | 300   |
| AH10140   | M10 x 140 Ø10 | 129,903 | 60                     | H                    | 50  | 200   |
| AH10150   | M10 x 150 Ø10 | 135,137 | 70                     | I                    | 50  | 200   |
| AH10160   | M10 x 160 Ø10 | 153,887 | 80                     | J                    | 50  | 200   |
| AH10170   | M10 x 170 Ø10 | 171,607 | 90                     | K                    | 50  | 200   |
| AH10210   | M10 x 210 Ø10 | 207,610 | 130                    | N                    | 50  | 150   |
| AH10230   | M10 x 230 Ø10 | 220,210 | 150                    | P                    | 50  | 100   |
| AH12090   | M12 x 90 Ø12  | 118,123 | 13                     | E                    | 50  | 200   |
| AH12100   | M12 x 100 Ø12 | 127,673 | 8                      | E                    | 50  | 200   |
| AH12110   | M12 x 110 Ø12 | 132,093 | 18                     | F                    | 50  | 200   |
| AH12120   | M12 x 120 Ø12 | 163,887 | 28                     | G                    | 50  | 200   |
| AH12130   | M12 x 130 Ø12 | 170,863 | 38                     | H                    | 50  | 200   |
| AH12140   | M12 x 140 Ø12 | 171,257 | 48                     | H                    | 50  | 200   |
| AH12160   | M12 x 160 Ø12 | 201,257 | 68                     | J                    | 50  | 100   |
| AH12180   | M12 x 180 Ø12 | 234,017 | 88                     | L                    | 50  | 150   |
| AH12200   | M12 x 200 Ø12 | 273,287 | 108                    | M                    | 50  | 100   |
| AH12220   | M12 x 220 Ø12 | 296,593 | 128                    | O                    | 50  | 100   |
| AH12250   | M12 x 250 Ø12 | 362,567 | 158                    | Q                    | 25  | 50    |
| AH14120   | M14 x 120 Ø14 | 282,843 | 12                     | G                    | 25  | 100   |
| AH14145   | M14 x 145 Ø14 | 332,130 | 37                     | I                    | 25  | 100   |
| AH14170   | M14 x 170 Ø14 | 354,833 | 62                     | K                    | 25  | 100   |
| AH14220   | M14 x 220 Ø14 | 492,003 | 112                    | O                    | 25  | 75    |
| AH14250   | M14 x 250 Ø14 | 549,567 | 142                    | Q                    | 25  | 50    |
| AH16125   | M16 x 125 Ø16 | 290,193 | 3                      | G                    | 25  | 100   |
| AH16145   | M16 x 145 Ø16 | 312,703 | 23                     | I                    | 25  | 100   |
| AH16170   | M16 x 170 Ø16 | 386,700 | 48                     | K                    | 25  | 50    |
| AH16220   | M16 x 220 Ø16 | 460,803 | 98                     | O                    | 25  | 50    |
| AH16250   | M16 x 250 Ø16 | 597,557 | 128                    | Q                    | 25  | 50    |
| AH16280   | M16 x 280 Ø16 | 650,490 | 158                    | S                    | 25  | 50    |
| AH20170   | M20 x 170 Ø20 | 571,087 | 23                     | K                    | 20  | 40    |
| AH20220   | M20 x 220 Ø20 | 711,083 | 73                     | O                    | 20  | 40    |
| AH20270   | M20 x 270 Ø20 | 971,807 | 123                    | S                    | 20  | 40    |

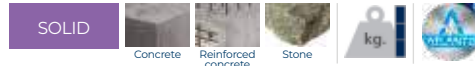
• Non-assessed sizes for Fire Resist

### Self-service

| CODE      | SIZE          | €/BAG  | PCS | BAGS |
|-----------|---------------|--------|-----|------|
| LSAH06060 | M6 x 60 Ø6    | 14,133 | 30  | 6    |
| LSAH08060 | M8 x 60 Ø8    | 11,600 | 20  | 6    |
| LSAH08075 | M8 x 75 Ø8    | 10,373 | 16  | 6    |
| LSAH08090 | M8 x 90 Ø8    | 9,816  | 14  | 6    |
| LSAH10070 | M10 x 70 Ø10  | 8,571  | 10  | 5    |
| LSAH10090 | M10 x 90 Ø10  | 7,705  | 8   | 6    |
| LSAH10120 | M10 x 120 Ø10 | 7,500  | 6   | 6    |
| LSAH12090 | M12 x 90 Ø12  | 9,203  | 6   | 5    |
| LSAH12110 | M12 x 110 Ø12 | 9,608  | 6   | 5    |
| LSAH16125 | M16 x 125 Ø16 | 6,880  | 2   | 6    |

Through bolt anchor for heavy loads in uncracked concrete

MTH



MTH-AT **NEW**

Opt.7 ETA Assessed. ATLANTIS C4-M shaft. ATLANTIS C4-M clip

| CODE        | SIZE          | €/100            | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |       |
|-------------|---------------|------------------|------------------------|----------------------|-----|-------|
| • AHAT06060 | M6 x 60 Ø6    | <b>62,030</b>    | 2                      | B                    | 200 | 1.200 |
| • AHAT06080 | M6 x 80 Ø6    | <b>70,210</b>    | 22                     | D                    | 200 | 1.200 |
| • AHAT06100 | M6 x 100 Ø6   | <b>77,650</b>    | 42                     | E                    | 200 | 800   |
| AHAT08060   | M8 x 60 Ø8    | <b>87,753</b>    | 3                      | B                    | 100 | 600   |
| AHAT08075   | M8 x 75 Ø8    | <b>96,717</b>    | 5                      | C                    | 100 | 600   |
| AHAT08090   | M8 x 90 Ø8    | <b>108,423</b>   | 20                     | E                    | 100 | 600   |
| AHAT08115   | M8 x 115 Ø8   | <b>138,480</b>   | 45                     | G                    | 100 | 400   |
| AHAT08130   | M8 x 130 Ø8   | <b>161,920</b>   | 60                     | H                    | 100 | 400   |
| AHAT08155   | M8 x 155 Ø8   | <b>240,020</b>   | 85                     | J                    | 100 | 200   |
| AHAT10070   | M10 x 70 Ø10  | <b>129,400</b>   | 3                      | C                    | 100 | 400   |
| AHAT10080   | M10 x 80 Ø10  | <b>151,417</b>   | 13                     | D                    | 100 | 400   |
| AHAT10090   | M10 x 90 Ø10  | <b>159,413</b>   | 10                     | E                    | 100 | 400   |
| AHAT10100   | M10 x 100 Ø10 | <b>185,443</b>   | 20                     | E                    | 100 | 400   |
| AHAT10120   | M10 x 120 Ø10 | <b>174,077</b>   | 40                     | G                    | 50  | 300   |
| AHAT10140   | M10 x 140 Ø10 | <b>249,327</b>   | 60                     | H                    | 50  | 200   |
| AHAT10150   | M10 x 150 Ø10 | <b>258,423</b>   | 70                     | I                    | 50  | 200   |
| AHAT10160   | M10 x 160 Ø10 | <b>264,047</b>   | 80                     | J                    | 50  | 200   |
| AHAT10170   | M10 x 170 Ø10 | <b>296,823</b>   | 90                     | K                    | 50  | 200   |
| AHAT10210   | M10 x 210 Ø10 | <b>368,457</b>   | 130                    | N                    | 50  | 150   |
| AHAT12090   | M12 x 90 Ø12  | <b>228,120</b>   | 13                     | E                    | 50  | 200   |
| AHAT12100   | M12 x 100 Ø12 | <b>249,037</b>   | 8                      | E                    | 50  | 200   |
| AHAT12110   | M12 x 110 Ø12 | <b>261,390</b>   | 18                     | F                    | 50  | 200   |
| AHAT12130   | M12 x 130 Ø12 | <b>340,967</b>   | 38                     | H                    | 50  | 200   |
| AHAT12140   | M12 x 140 Ø12 | <b>328,173</b>   | 48                     | H                    | 50  | 200   |
| AHAT12160   | M12 x 160 Ø12 | <b>363,450</b>   | 68                     | J                    | 50  | 100   |
| AHAT12180   | M12 x 180 Ø12 | <b>430,797</b>   | 88                     | L                    | 50  | 150   |
| AHAT12200   | M12 x 200 Ø12 | <b>510,933</b>   | 108                    | M                    | 50  | 100   |
| AHAT12220   | M12 x 220 Ø12 | <b>560,537</b>   | 128                    | O                    | 50  | 100   |
| AHAT12250   | M12 x 250 Ø12 | <b>681,300</b>   | 158                    | Q                    | 25  | 50    |
| AHAT16125   | M16 x 125 Ø16 | <b>564,950</b>   | 3                      | G                    | 25  | 100   |
| AHAT16145   | M16 x 145 Ø16 | <b>620,463</b>   | 23                     | I                    | 25  | 100   |
| AHAT16170   | M16 x 170 Ø16 | <b>779,107</b>   | 48                     | K                    | 25  | 50    |
| AHAT16220   | M16 x 220 Ø16 | <b>907,190</b>   | 98                     | O                    | 25  | 50    |
| AHAT16250   | M16 x 250 Ø16 | <b>1.188,173</b> | 128                    | Q                    | 25  | 50    |
| AHAT16280   | M16 x 280 Ø16 | <b>1.307,713</b> | 158                    | S                    | 25  | 50    |
| AHAT20170   | M20 x 170 Ø20 | <b>1.162,567</b> | 23                     | K                    | 20  | 40    |
| AHAT20220   | M20 x 220 Ø20 | <b>1.457,943</b> | 73                     | O                    | 20  | 40    |
| AHAT20270   | M20 x 270 Ø20 | <b>2.019,937</b> | 123                    | S                    | 20  | 40    |



• Non-assessed sizes for Fire Resist

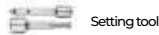


# MTH

Through bolt anchor for heavy loads in uncracked concrete

## MTH-A2

Opt.7 ETA Assessed, A2 Stainless steel shaft. A2 Stainless steel clip



Technical info P. 360

STAINLESS STEEL



| CODE      | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |       |
|-----------|---------------|-----------|------------------------|----------------------|-----|-------|
| • M106045 | M6 x 45 Ø6    | 151,313   | 1                      | A                    | 200 | 1.200 |
| • M106060 | M6 x 60 Ø6    | 169,690   | 2                      | B                    | 200 | 1.200 |
| • M106080 | M6 x 80 Ø6    | 177,483   | 22                     | D                    | 200 | 1.200 |
| • M106120 | M6 x 120 Ø6   | 212,287   | 62                     | G                    | 100 | 600   |
| • M106140 | M6 x 140 Ø6   | 268,680   | 82                     | I                    | 100 | 600   |
| • M106160 | M6 x 160 Ø6   | 300,950   | 102                    | J                    | 100 | 400   |
| • M106170 | M6 x 170 Ø6   | 338,007   | 112                    | K                    | 100 | 400   |
| • M106180 | M6 x 180 Ø6   | 366,523   | 122                    | L                    | 100 | 300   |
| • M108050 | M8 x 50 Ø8    | 183,510   | 4                      | A                    | 100 | 800   |
| M108075   | M8 x 75 Ø8    | 201,007   | 5                      | C                    | 100 | 600   |
| M108090   | M8 x 90 Ø8    | 228,747   | 20                     | E                    | 100 | 600   |
| M108115   | M8 x 115 Ø8   | 295,897   | 45                     | G                    | 100 | 400   |
| M110070   | M10 x 70 Ø10  | 311,020   | 3                      | C                    | 100 | 400   |
| M110090   | M10 x 90 Ø10  | 348,143   | 10                     | E                    | 100 | 400   |
| M110120   | M10 x 120 Ø10 | 408,060   | 40                     | G                    | 50  | 300   |
| M110150   | M10 x 150 Ø10 | 571,310   | 70                     | I                    | 50  | 200   |
| • M112075 | M12 x 75 Ø12  | 471,593   | 5                      | C                    | 50  | 300   |
| M112090   | M12 x 90 Ø12  | 472,673   | 13                     | D                    | 50  | 200   |
| M112110   | M12 x 110 Ø12 | 511,580   | 18                     | F                    | 50  | 200   |
| M112140   | M12 x 140 Ø12 | 641,200   | 48                     | I                    | 50  | 200   |
| • M116090 | M16 x 90 Ø16  | 1.145,787 | 4                      | D                    | 25  | 150   |
| M116145   | M16 x 145 Ø16 | 1.337,527 | 23                     | I                    | 25  | 100   |
| M116170   | M16 x 170 Ø16 | 1.466,613 | 48                     | K                    | 25  | 75    |
| • M120120 | M20 x 120 Ø20 | 1.832,660 | 5                      | G                    | 20  | 40    |
| • M120170 | M20 x 170 Ø20 | 2.277,220 | 23                     | K                    | 20  | 40    |
| M120220   | M20 x 220 Ø20 | 2.941,633 | 73                     | O                    | 20  | 40    |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist

Blister

| CODE      | SIZE         | €/BAG | PCS BAG | BAGS |
|-----------|--------------|-------|---------|------|
| BZMI08075 | M8 x 75 Ø8   | 4,146 | 2       | 12   |
| BZMI10090 | M10 x 90 Ø10 | 4,146 | 2       | 10   |

Window box

| CODE     | SIZE          | €/BOX  | PCS BOX | BOXES |
|----------|---------------|--------|---------|-------|
| VM108075 | M8 x 75 Ø8    | 29,713 | 10      | 8     |
| VM108090 | M8 x 90 Ø8    | 31,771 | 10      | 8     |
| VM110070 | M10 x 70 Ø10  | 32,829 | 8       | 8     |
| VM110090 | M10 x 90 Ø10  | 36,746 | 8       | 8     |
| VM110120 | M10 x 120 Ø10 | 32,307 | 6       | 8     |
| VM112110 | M12 x 110 Ø12 | 40,078 | 6       | 8     |

Self-service

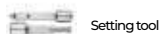
| CODE      | SIZE          | €/BAG  | PCS BAG | BAGS |
|-----------|---------------|--------|---------|------|
| LSMI08075 | M8 x 75 Ø8    | 29,584 | 12      | 7    |
| LSMI08090 | M8 x 90 Ø8    | 33,660 | 12      | 7    |
| LSMI10070 | M10 x 70 Ø10  | 36,232 | 10      | 6    |
| LSMI10090 | M10 x 90 Ø10  | 36,049 | 8       | 6    |
| LSMI10120 | M10 x 120 Ø10 | 38,029 | 8       | 6    |
| LSMI12110 | M12 x 110 Ø12 | 39,316 | 6       | 6    |

## MTH-A4

Opt.7 ETA Assessed, A4 Stainless steel shaft. A4 Stainless steel clip



Also available with DIN 9021 washer. Ask for price and delivery time



Technical info P. 360

STAINLESS STEEL



| CODE        | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |       |
|-------------|---------------|-----------|------------------------|----------------------|-----|-------|
| • MIA406045 | M6 x 45 Ø6    | 189,463   | 1                      | A                    | 200 | 1.200 |
| • MIA406060 | M6 x 60 Ø6    | 206,410   | 2                      | B                    | 200 | 1.200 |
| • MIA406080 | M6 x 80 Ø6    | 219,837   | 22                     | D                    | 200 | 1.200 |
| • MIA408050 | M8 x 50 Ø8    | 228,390   | 4                      | A                    | 100 | 800   |
| MIA408075   | M8 x 75 Ø8    | 242,537   | 5                      | C                    | 100 | 600   |
| MIA408090   | M8 x 90 Ø8    | 270,643   | 20                     | E                    | 100 | 600   |
| MIA408115   | M8 x 115 Ø8   | 355,543   | 45                     | G                    | 100 | 400   |
| MIA410070   | M10 x 70 Ø10  | 397,217   | 3                      | C                    | 100 | 400   |
| MIA410090   | M10 x 90 Ø10  | 450,223   | 10                     | E                    | 100 | 400   |
| MIA410120   | M10 x 120 Ø10 | 547,293   | 40                     | G                    | 50  | 300   |
| MIA410150   | M10 x 150 Ø10 | 776,167   | 70                     | I                    | 50  | 200   |
| • MIA412075 | M12 x 75 Ø12  | 594,010   | 5                      | C                    | 50  | 300   |
| MIA412090   | M12 x 90 Ø12  | 598,210   | 13                     | D                    | 50  | 200   |
| MIA412110   | M12 x 110 Ø12 | 654,380   | 18                     | F                    | 50  | 200   |
| MIA412140   | M12 x 140 Ø12 | 784,697   | 48                     | I                    | 50  | 200   |
| • MIA416090 | M16 x 90 Ø16  | 1.419,293 | 4                      | D                    | 25  | 150   |
| MIA416145   | M16 x 145 Ø16 | 1.752,783 | 23                     | I                    | 25  | 100   |
| MIA416170   | M16 x 170 Ø16 | 2.024,060 | 48                     | K                    | 25  | 75    |
| • MIA420120 | M20 x 120 Ø20 | 2.352,847 | 5                      | G                    | 20  | 40    |
| MIA420170   | M20 x 170 Ø20 | 3.216,250 | 23                     | K                    | 20  | 40    |
| MIA420220   | M20 x 220 Ø20 | 4.003,917 | 73                     | O                    | 20  | 40    |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist

Window box

| CODE       | SIZE          | €/BOX  | PCS BOX | BOXES |
|------------|---------------|--------|---------|-------|
| VMIA408075 | M8 x 75 Ø8    | 32,804 | 10      | 8     |
| VMIA410090 | M10 x 90 Ø10  | 44,894 | 8       | 8     |
| VMIA412110 | M12 x 110 Ø12 | 51,364 | 6       | 8     |

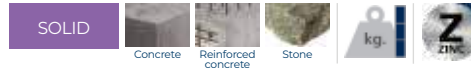
Self-service

| CODE        | SIZE          | €/BAG  | PCS BAG | BAGS |
|-------------|---------------|--------|---------|------|
| LSMIA408075 | M8 x 75 Ø8    | 35,510 | 12      | 7    |
| LSMIA410090 | M10 x 90 Ø10  | 46,358 | 8       | 7    |
| LSMIA412110 | M12 x 110 Ø12 | 50,468 | 6       | 5    |

## Through bolt anchor for heavy loads

# MTA

02  
P. 381  
Technical info



| CODE    | SIZE          | €/100   | THICKNESS<br>MAX. FIXTURE |     |       |
|---------|---------------|---------|---------------------------|-----|-------|
| AM06045 | M6 x 45 Ø6    | 32,557  | 1                         | 200 | 1.200 |
| AM06055 | M6 x 55 Ø6    | 35,337  | 11                        | 200 | 1.200 |
| AM06060 | M6 x 60 Ø6    | 35,013  | 2                         | 200 | 1.200 |
| AM06065 | M6 x 65 Ø6    | 35,440  | 7                         | 200 | 1.200 |
| AM06070 | M6 x 70 Ø6    | 36,353  | 12                        | 200 | 1.200 |
| AM06080 | M6 x 80 Ø6    | 38,073  | 22                        | 200 | 1.200 |
| AM06085 | M6 x 85 Ø6    | 39,697  | 27                        | 200 | 1.200 |
| AM06090 | M6 x 90 Ø6    | 40,157  | 32                        | 200 | 1.200 |
| AM06100 | M6 x 100 Ø6   | 41,843  | 42                        | 200 | 800   |
| AM06110 | M6 x 110 Ø6   | 45,650  | 52                        | 200 | 800   |
| AM06120 | M6 x 120 Ø6   | 48,167  | 62                        | 100 | 600   |
| AM06130 | M6 x 130 Ø6   | 48,340  | 72                        | 100 | 600   |
| AM06140 | M6 x 140 Ø6   | 60,050  | 82                        | 100 | 600   |
| AM06150 | M6 x 150 Ø6   | 68,657  | 92                        | 100 | 600   |
| AM06160 | M6 x 160 Ø6   | 73,320  | 102                       | 100 | 400   |
| AM06170 | M6 x 170 Ø6   | 92,057  | 112                       | 100 | 400   |
| AM06180 | M6 x 180 Ø6   | 97,517  | 122                       | 100 | 300   |
| AM08050 | M8 x 50 Ø8    | 41,057  | 4                         | 100 | 800   |
| AM08060 | M8 x 60 Ø8    | 41,920  | 3                         | 100 | 800   |
| AM08065 | M8 x 65 Ø8    | 44,120  | 8                         | 100 | 600   |
| AM08075 | M8 x 75 Ø8    | 44,967  | 5                         | 100 | 600   |
| AM08090 | M8 x 90 Ø8    | 48,923  | 20                        | 100 | 600   |
| AM08115 | M8 x 115 Ø8   | 59,273  | 45                        | 100 | 400   |
| AM08120 | M8 x 120 Ø8   | 60,407  | 50                        | 100 | 400   |
| AM08130 | M8 x 130 Ø8   | 69,507  | 60                        | 100 | 400   |
| AM08155 | M8 x 155 Ø8   | 120,317 | 85                        | 100 | 200   |
| AM10065 | M10 x 65 Ø10  | 63,437  | 1                         | 100 | 400   |
| AM10070 | M10 x 70 Ø10  | 59,690  | 3                         | 100 | 400   |
| AM10080 | M10 x 80 Ø10  | 63,703  | 13                        | 100 | 400   |
| AM10090 | M10 x 90 Ø10  | 66,493  | 10                        | 100 | 400   |
| AM10100 | M10 x 100 Ø10 | 73,440  | 20                        | 100 | 400   |
| AM10120 | M10 x 120 Ø10 | 79,757  | 40                        | 50  | 300   |
| AM10140 | M10 x 140 Ø10 | 90,520  | 60                        | 50  | 200   |
| AM10150 | M10 x 150 Ø10 | 101,833 | 70                        | 50  | 200   |
| AM10160 | M10 x 160 Ø10 | 127,147 | 80                        | 50  | 200   |

| CODE    | SIZE          | €/100     | THICKNESS<br>MAX. FIXTURE |    |     |
|---------|---------------|-----------|---------------------------|----|-----|
| AM10170 | M10 x 170 Ø10 | 132,983   | 90                        | 50 | 200 |
| AM10210 | M10 x 210 Ø10 | 184,260   | 130                       | 50 | 150 |
| AM10230 | M10 x 230 Ø10 | 208,860   | 150                       | 50 | 100 |
| AM12075 | M12 x 75 Ø12  | 91,090    | 5                         | 50 | 300 |
| AM12080 | M12 x 80 Ø12  | 94,737    | 3                         | 50 | 300 |
| AM12090 | M12 x 90 Ø12  | 97,900    | 13                        | 50 | 200 |
| AM12100 | M12 x 100 Ø12 | 101,097   | 8                         | 50 | 200 |
| AM12110 | M12 x 110 Ø12 | 102,213   | 18                        | 50 | 200 |
| AM12120 | M12 x 120 Ø12 | 121,883   | 28                        | 50 | 200 |
| AM12140 | M12 x 140 Ø12 | 136,133   | 48                        | 50 | 200 |
| AM12160 | M12 x 160 Ø12 | 155,810   | 68                        | 50 | 100 |
| AM12180 | M12 x 180 Ø12 | 180,977   | 88                        | 50 | 150 |
| AM12220 | M12 x 220 Ø12 | 237,433   | 128                       | 50 | 100 |
| AM12250 | M12 x 250 Ø12 | 294,320   | 158                       | 25 | 50  |
| AM14080 | M14 x 80 Ø14  | 177,997   | 5                         | 50 | 200 |
| AM14100 | M14 x 100 Ø14 | 204,317   | 5                         | 50 | 100 |
| AM14120 | M14 x 120 Ø14 | 229,143   | 12                        | 25 | 100 |
| AM14145 | M14 x 145 Ø14 | 279,293   | 37                        | 25 | 100 |
| AM14170 | M14 x 170 Ø14 | 303,820   | 62                        | 25 | 100 |
| AM14220 | M14 x 220 Ø14 | 405,090   | 112                       | 25 | 75  |
| AM14250 | M14 x 250 Ø14 | 444,447   | 142                       | 25 | 50  |
| AM16090 | M16 x 90 Ø16  | 217,120   | 4                         | 25 | 150 |
| AM16110 | M16 x 110 Ø16 | 219,487   | 7                         | 25 | 100 |
| AM16125 | M16 x 125 Ø16 | 224,667   | 3                         | 25 | 100 |
| AM16145 | M16 x 145 Ø16 | 240,893   | 23                        | 25 | 100 |
| AM16170 | M16 x 170 Ø16 | 300,913   | 48                        | 25 | 50  |
| AM16220 | M16 x 220 Ø16 | 365,073   | 98                        | 25 | 50  |
| AM16250 | M16 x 250 Ø16 | 487,367   | 128                       | 25 | 50  |
| AM16280 | M16 x 280 Ø16 | 530,513   | 158                       | 25 | 50  |
| AM20120 | M20 x 120 Ø20 | 369,933   | 5                         | 20 | 40  |
| AM20170 | M20 x 170 Ø20 | 443,597   | 23                        | 20 | 40  |
| AM20220 | M20 x 220 Ø20 | 563,573   | 73                        | 20 | 40  |
| AM20270 | M20 x 270 Ø20 | 754,850   | 123                       | 20 | 40  |
| AM24180 | M24 x 180 Ø24 | 1.258,920 | 10                        | 10 | 20  |
| AM24260 | M24 x 260 Ø24 | 1.594,520 | 80                        | 10 | 20  |



Also available with DIN 9021 washer. Ask for price and delivery time



Setting tool

### Blister

| CODE      | SIZE          | €/BAG | PCS<br>BAG | BAGS |
|-----------|---------------|-------|------------|------|
| BZAM06060 | M6 x 60 Ø6    | 3,071 | 2          | 20   |
| BZAM06080 | M6 x 80 Ø6    | 3,071 | 2          | 20   |
| BZAM08050 | M8 x 50 Ø8    | 3,071 | 2          | 15   |
| BZAM08075 | M8 x 75 Ø8    | 3,071 | 2          | 15   |
| BZAM08090 | M8 x 90 Ø8    | 3,071 | 2          | 15   |
| BZAM10070 | M10 x 70 Ø10  | 3,071 | 2          | 12   |
| BZAM10090 | M10 x 90 Ø10  | 3,071 | 2          | 12   |
| BZAM10120 | M10 x 120 Ø10 | 3,071 | 2          | 12   |
| BZAM12090 | M12 x 90 Ø12  | 3,071 | 2          | 10   |
| BZAM12110 | M12 x 110 Ø12 | 3,071 | 2          | 10   |
| BZAM12140 | M12 x 140 Ø12 | 3,071 | 2          | 10   |

### Window box

| CODE     | SIZE          | €/BOX | PCS<br>BOX | BOXES |
|----------|---------------|-------|------------|-------|
| VAM06060 | M6 x 60 Ø6    | 9,094 | 20         | 8     |
| VAM08075 | M8 x 75 Ø8    | 7,607 | 12         | 8     |
| VAM08090 | M8 x 90 Ø8    | 8,085 | 12         | 8     |
| VAM10070 | M10 x 70 Ø10  | 5,102 | 6          | 8     |
| VAM10090 | M10 x 90 Ø10  | 5,653 | 6          | 8     |
| VAM10120 | M10 x 120 Ø10 | 6,719 | 6          | 8     |
| VAM12090 | M12 x 90 Ø12  | 8,246 | 6          | 8     |
| VAM12110 | M12 x 110 Ø12 | 8,617 | 6          | 8     |

# INDEXcal V4

## ANCHOR CALCULATION SOFTWARE

The INDEXcal anchor calculation programme is the right tool for designers of structural solutions in order to comply with the requirements of Eurocode 2, part 4. It quickly and thoroughly checks all the anchors in our catalogue based on user input parameters, indicating whether they are appropriate or not.



### Benefits:

- Valid for cracked and uncracked concrete with different strengths.
  - Calculation for fire and/or seismic conditions.
- Indicates the reason why anchors that do not meet the structural requirements are rejected.
- Anchor plate customisation, including rectangular, circular, hexagonal, octagonal and irregular.
  - Allows standardised profiles to be included in the design.
  - Anchor filtering option.
- Multilingual: available in Spanish, English, French, German and Dutch
- Direct access to technical sheets and standardisations from the software itself.
  - Full, customisable pdf report
  - Can be updated online.
  - 3D user interface.
- Available for free use and can be downloaded at the website.
- Simultaneous calculation with several load hypotheses can be included.

# QUALITY GUARANTEE

Our desire to improve and to certify the quality of our offer in order to fully respond to the needs of our customers drives us to increasingly widen our range of certified products. The assessment processes are performed by prestigious institutions which guarantee that our products fulfill the highest possible standards of quality and technical requirements.



European Conformity



European Technical Assessment



Seismic Assessment



Underwriters Laboratories



ICC-ES®



Fire resistance



Low VOC emissions



Leadership in Energy and Environmental Design



FM APPROVED

FM Assessment






Setting tool for MT family

DO-MT





SOLID 



| CODE    | SIZE                  | €/PC   |  |  |
|---------|-----------------------|--------|---|---|
| DOMTA10 | M6 - M8 - M10         | 10,482 | 5   | 225   |
| DOMTA20 | M12 - M14 - M16 - M20 | 17,471 | 5   | 225   |



Tie wire anchor

TWA

SOLID     

| CODE     | SIZE      | €/100  |  |  |
|----------|-----------|--------|---|---|
| TWA06060 | 6 x 60 Ø6 | 30,200 | 100   | 2,400   |



Plastic caps for MT

TP-MT

METAL 

| CODE     | SIZE | €/100  |  |  |
|----------|------|--------|---|---|
| TPMTBL06 | M6   | 18,650 | 500   | 3,000   |
| TPMTBL08 | M8   | 22,010 | 250   | 3,000   |
| TPMTBL10 | M10  | 24,377 | 250   | 1,000   |
| TPMTBL12 | M12  | 35,007 | 250   | 1,000   |
| TPMTBL16 | M16  | 50,673 | 100   | 400   |

TP-MT BL <sup>NEW</sup>

White



METAL 

| CODE     | SIZE | €/100  |  |  |
|----------|------|--------|---|---|
| TPMTNE06 | M6   | 18,650 | 500   | 3,000   |
| TPMTNE08 | M8   | 22,010 | 250   | 3,000   |
| TPMTNE10 | M10  | 24,377 | 250   | 1,000   |
| TPMTNE12 | M12  | 35,007 | 250   | 1,000   |
| TPMTNE16 | M16  | 50,673 | 100   | 400   |

TP-MT NE <sup>NEW</sup>

Black



# TH | TF

The approved high-performance anchors for direct fastening in cracked and non-cracked concrete are the most professional and effective solution. Its design allows quick and easy installation, guaranteeing maximum performance and higher load values compared to the previous version. The assortment of TH/TF anchors consists of different models of heads, suitable for installation in structural and non-structural elements such as railings, shelves or elements that need to be uninstalled or adjusted.



## DESIGN AND GEOMETRY



**Patented double thread**, designed to be deeply embedded in the concrete and guarantee maximum loads.



**THE/TFE Head: Embossed ribbed washer in hexagonal versions**, which ensures a tightness against the base material, preventing the fastening from loosening.



**Head: Measurement embossed on the head** (except Ø5). Allows the identification of the size installed.

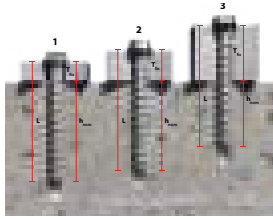


The **tempered tip** ensures greater hardness, durability and ease of installation.



High-resistance embossed **carbon steel body**.

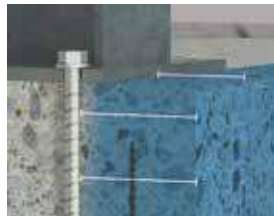
## QUALITIES AND ADVANTAGES



### + VERSATILITY

Allows **installation with up to three different screwing depths** (in the Ø10 version).

Additionally, **it can be unscrewed** to level it or correctly adjust the installed element.



### + PRODUCTIVITY

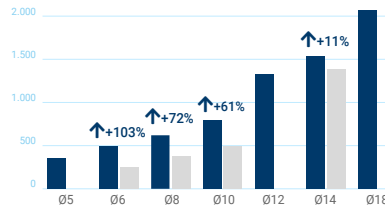
It generates low loads on the concrete, allowing the **use of smaller metrics** and, consequently, make installations with reduced distances between anchors and at the edge of the concrete element.

**No torque wrench required.** It allows us to make sure that it is always perfectly installed.

**EXPRESS installation.** It only requires a drill and an impact machine.

### HIGHEST GUARANTEES

- Approved (ETA 20/0046) in option 1 for installation in cracked and non-cracked concrete (C20/25-C50/60).
- Approved (ETA 20/0494) for non-structural redundant systems in concrete (C20/25) and hollow-core slabs (≥ C30/37).
- Approved for fire resistance R30-R120 in concrete.
- C1&C2 seismic approval.
- Confirmed suitability for the installation of sprinkler systems in accordance with the VdS CEA 4001 guidelines.



**MAXIMUM PERFORMANCE AND GREATER LOAD VALUES WITH RESPECT TO THE PREVIOUS VERSION**

## APPLICATIONS



**Applications for ETA 20/0046 version (installations in cracked and uncracked concrete)**

- Structural applications.
- Awnings or temporary signs.
- Stadium seats.
- Wood to concrete structures.
- Railings and fences.
- Shelves and racks.
- Structural beams and pillars.



**Applications for approved version ETA 20/0494 (non-structural installations)**

- Fastening of tubes.
- Air conditioning conduits.
- Electrical trays or wiring systems.
- Installations in hollow concrete ceilings.
- Installations in hollow-core slab ceilings.

## RANGE



| PRODUCT             | THE           | THA           | THP           | THT           | TXE     | TFE       | TFN                      | TFS  | TFM         | TFF           |
|---------------------|---------------|---------------|---------------|---------------|---------|-----------|--------------------------|------|-------------|---------------|
| <b>TYPE OF HEAD</b> | Hexagonal     | Countersunk   | Panhead       | Truss         | Bimetal | Hexagonal | Hexagonal without washer | Stud | Male thread | Female thread |
| <b>COATING</b>      | ATLANTIS C3-H | ATLANTIS C3-H | ATLANTIS C3-H | ATLANTIS C3-H | A4-200X | Zn        | Zn                       | Zn   | Zn          | Zn            |
| <b>CE</b>           | ✓             | ✓             | ✓             | ✓             | ✓       | ✓         | ✓                        | ✓    | ✓           | ✓             |
| <b>ETA</b>          | ✓             | ✓             | ✓             | ✓             | ✓       | ✓         | ✓                        | ✓    | ✓           | ✓             |
| <b>SEISMIC</b>      | ✓             | ✓             | ✓             | ✓             | ✓       | ✓         | ✓                        | ✓    | ✓           | ✓             |
| <b>FIRE</b>         | ✓             | ✓             | ✓             | ✓             | ✓       | ✓         | ✓                        | ✓    | ✓           | ✓             |
| <b>VDS</b>          | ✓             | ✓             | ✓             | ✓             | ✓       | ✓         | ✓                        | ✓    | ✓           | ✓             |

## 100% INDEX MANUFACTURED

This allows us to ensure a rigorous control of processes, guarantee the highest quality in our products, provide the best service and obtain a competitive global cost.

### THE PERFECT COATING ACCORDING TO THE EXPECTED LEVELS OF CORROSION



**Atlantis C3-H coating:** valid for dry indoor conditions (50 years) or in C3-type outdoor environments according to ISO 9223, for a period of 25 years.



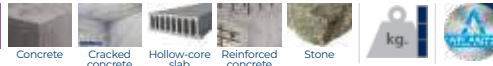
**Zinc coating:** suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.

Concrete screw anchor

TH/TF

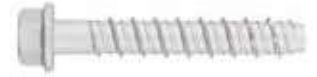
02 Technical info P. 332

SOLID



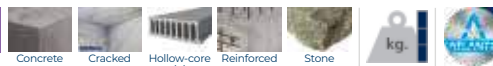
| CODE     | SEISMICASSESSMENT | DRILL Ø X LENGTH | €/100     |    | THICKNESS MAX. FIXTURE |     |       |
|----------|-------------------|------------------|-----------|----|------------------------|-----|-------|
| THE05040 | -                 | Ø5 x 40          | 46,067    | 8  | 5                      | 100 | 2.400 |
| THE05050 | -                 | Ø5 x 50          | 53,427    | 8  | 5                      | 100 | 1.600 |
| THE05060 | -                 | Ø5 x 60          | 57,060    | 8  | 15                     | 100 | 1.600 |
| THE05080 | -                 | Ø5 x 80          | 74,843    | 8  | 35                     | 50  | 800   |
| THE05100 | -                 | Ø5 x 100         | 87,010    | 8  | 55                     | 50  | 800   |
| THE06040 | -                 | Ø6 x 40          | 59,547    | 10 | 5                      | 100 | 1.600 |
| THE06050 | C1                | Ø6 x 50          | 63,167    | 10 | 15                     | 100 | 1.200 |
| THE06060 | C1                | Ø6 x 60          | 70,337    | 10 | 5                      | 100 | 1.200 |
| THE06070 | C1                | Ø6 x 70          | 77,953    | 10 | 15                     | 50  | 600   |
| THE06080 | C1                | Ø6 x 80          | 87,653    | 10 | 25                     | 50  | 800   |
| THE06100 | C1                | Ø6 x 100         | 110,160   | 10 | 45                     | 25  | 400   |
| THE06120 | C1                | Ø6 x 120         | 125,583   | 10 | 65                     | 25  | 400   |
| THE08055 | C1 & C2           | Ø8 x 55          | 117,673   | 13 | 5                      | 50  | 600   |
| THE08060 | C1 & C2           | Ø8 x 60          | 120,010   | 13 | 10                     | 50  | 600   |
| THE08070 | C1 & C2           | Ø8 x 70          | 132,390   | 13 | 5                      | 50  | 200   |
| THE08080 | C1 & C2           | Ø8 x 80          | 148,280   | 13 | 15                     | 25  | 400   |
| THE08090 | C1 & C2           | Ø8 x 90          | 160,057   | 13 | 25                     | 25  | 400   |
| THE08100 | C1 & C2           | Ø8 x 100         | 168,943   | 13 | 35                     | 25  | 400   |
| THE08110 | C1 & C2           | Ø8 x 110         | 176,567   | 13 | 45                     | 25  | 400   |
| THE08120 | C1 & C2           | Ø8 x 120         | 242,560   | 13 | 55                     | 25  | 400   |
| THE08140 | C1 & C2           | Ø8 x 140         | 249,630   | 13 | 75                     | 25  | 300   |
| THE10060 | -                 | Ø10 x 60         | 222,307   | 15 | 5                      | 50  | 200   |
| THE10070 | -                 | Ø10 x 70         | 241,273   | 15 | 15                     | 50  | 200   |
| THE10080 | -                 | Ø10 x 80         | 259,587   | 15 | 25                     | 50  | 300   |
| THE10090 | C1 & C2           | Ø10 x 90         | 268,667   | 15 | 5                      | 25  | 300   |
| THE10100 | C1 & C2           | Ø10 x 100        | 277,257   | 15 | 15                     | 25  | 300   |
| THE10120 | C1 & C2           | Ø10 x 120        | 318,643   | 15 | 35                     | 25  | 200   |
| THE10140 | C1 & C2           | Ø10 x 140        | 353,493   | 15 | 55                     | 25  | 100   |
| THE12080 | C1 & C2           | Ø12 x 80         | 334,837   | 18 | 5                      | 25  | 100   |
| THE12090 | -                 | Ø12 x 90         | 357,740   | 18 | 15                     | 25  | 100   |
| THE12110 | C1 & C2           | Ø12 x 110        | 408,707   | 18 | 5                      | 25  | 100   |
| THE12130 | C1 & C2           | Ø12 x 130        | 469,943   | 18 | 25                     | 25  | 150   |
| THE12150 | C1 & C2           | Ø12 x 150        | 520,620   | 18 | 45                     | 25  | 100   |
| THE14080 | -                 | Ø14 x 80         | 513,083   | 21 | 5                      | 25  | 150   |
| THE14100 | -                 | Ø14 x 100        | 609,290   | 21 | 25                     | 25  | 150   |
| THE14120 | C1 & C2           | Ø14 x 120        | 710,027   | 21 | 5                      | 25  | 100   |
| THE14130 | C1 & C2           | Ø14 x 130        | 805,510   | 21 | 15                     | 25  | 100   |
| THE14140 | C1 & C2           | Ø14 x 140        | 867,473   | 21 | 25                     | 25  | 100   |
| THE14160 | C1 & C2           | Ø14 x 160        | 943,767   | 21 | 45                     | 25  | 50    |
| THE16100 | NEW               | Ø16 x 100        | 826,687   | -  | 20                     | 25  | 100   |
| THE16150 | NEW               | Ø16 x 150        | 1.150,703 | -  | 30                     | 25  | 75    |
| THE18100 | C1 & C2           | Ø18 x 100        | 1.022,780 | 24 | 10                     | 20  | 80    |
| THE18130 | C1 & C2           | Ø18 x 130        | 1.193,700 | 24 | 40                     | 20  | 40    |
| THE18160 | C1 & C2           | Ø18 x 160        | 1.391,507 | 24 | 20                     | 15  | 30    |
| THE18180 | C1 & C2           | Ø18 x 180        | 1.505,443 | 24 | 40                     | 15  | 30    |
| THE18200 | C1 & C2           | Ø18 x 200        | 1.651,080 | 24 | 60                     | 10  | 20    |

THE Hexagon head. ATLANTIS C3-H coating. Opt.1 ETA Assessed



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SOLID



| CODE     | SEISMICASSESSMENT | DRILL Ø X LENGTH | €/100   |      | THICKNESS MAX. FIXTURE |     |       |
|----------|-------------------|------------------|---------|------|------------------------|-----|-------|
| THA05040 | -                 | Ø5 x 40          | 54,380  | TX25 | 5                      | 100 | 2.400 |
| THA05060 | -                 | Ø5 x 60          | 64,053  | TX25 | 15                     | 100 | 1.200 |
| THA05080 | -                 | Ø5 x 80          | 81,180  | TX25 | 35                     | 50  | 800   |
| THA05100 | -                 | Ø5 x 100         | 91,513  | TX25 | 55                     | 50  | 800   |
| THA06045 | C1                | Ø6 x 45          | 75,860  | TX30 | 10                     | 100 | 1.600 |
| THA06050 | C1                | Ø6 x 50          | 79,100  | TX30 | 15                     | 100 | 1.200 |
| THA06060 | C1                | Ø6 x 60          | 93,003  | TX30 | 5                      | 100 | 1.200 |
| THA06080 | C1                | Ø6 x 80          | 112,020 | TX30 | 25                     | 100 | 600   |
| THA06120 | C1                | Ø6 x 120         | 125,833 | TX30 | 65                     | 100 | 400   |
| THA06140 | C1                | Ø6 x 140         | 161,323 | TX30 | 85                     | 100 | 600   |
| THA08060 | -                 | Ø8 x 60          | 153,210 | TX45 | 10                     | 50  | 200   |
| THA08080 | -                 | Ø8 x 80          | 186,177 | TX45 | 15                     | 25  | 400   |
| THA08100 | C1 & C2           | Ø8 x 100         | 223,920 | TX45 | 35                     | 25  | 400   |
| THA08120 | C1 & C2           | Ø8 x 120         | 251,283 | TX45 | 55                     | 25  | 400   |
| THA10100 | C1 & C2           | Ø10 x 100        | 339,207 | TX50 | 15                     | 25  | 300   |
| THA10120 | C1 & C2           | Ø10 x 120        | 393,763 | TX50 | 35                     | 25  | 200   |

THA Countersunk head. ATLANTIS C3-H coating. Opt.1 ETA Assessed





# TH/TF

## Concrete screw anchor

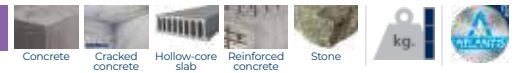
### THP

Pan head. ATLANTIS C3-H coating. Opt.1 ETA Assessed



Technical info P. 383

SOLID



| CODE     | SEISMICASSESSMENT | DRILL Ø X LENGTH | €/100   | FIXTURE | THICKNESS MAX. FIXTURE | kg  | kg    |
|----------|-------------------|------------------|---------|---------|------------------------|-----|-------|
| THP05040 | -                 | Ø5 x 40          | 53,580  | TX30    | 5                      | 100 | 2.400 |
| THP05060 | -                 | Ø5 x 60          | 61,640  | TX30    | 15                     | 100 | 1.200 |
| THP06040 | -                 | Ø6 x 40          | 64,423  | TX40    | 5                      | 100 | 1.200 |
| THP06050 | C1                | Ø6 x 50          | 75,967  | TX40    | 15                     | 100 | 1.200 |
| THP06060 | C1                | Ø6 x 60          | 86,600  | TX40    | 5                      | 100 | 1.200 |
| THP06080 | C1                | Ø6 x 80          | 107,390 | TX40    | 25                     | 50  | 600   |
| THP06100 | C1                | Ø6 x 100         | 127,520 | TX40    | 45                     | 50  | 200   |
| THP08060 | -                 | Ø8 x 60          | 152,170 | TX45    | 10                     | 25  | 400   |
| THP08080 | -                 | Ø8 x 80          | 176,803 | TX45    | 15                     | 25  | 300   |

### THT

Truss head. ATLANTIS C3-H coating. Opt.1 ETA Assessed



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SOLID



| CODE     | DRILL Ø X LENGTH | €/100   | FIXTURE | THICKNESS MAX. FIXTURE | kg  | kg    |
|----------|------------------|---------|---------|------------------------|-----|-------|
| THT06040 | Ø6 x 40          | 83,800  | TX30    | 5                      | 100 | 1.600 |
| THT06050 | Ø6 x 50          | 99,760  | TX30    | 15                     | 100 | 1.200 |
| THT06060 | Ø6 x 60          | 113,727 | TX30    | 5                      | 100 | 400   |

### NEW TXA

Countersunk head with Bimetal point. Stainless steel A4. Opt.1 ETA Assessed



Technical info P.



SOLID



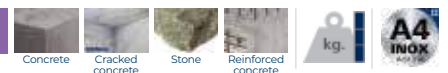
| CODE     | SIZE      | €/100   | FIXTURE | THICKNESS MAX. FIXTURE | kg | kg |
|----------|-----------|---------|---------|------------------------|----|----|
| TXA08060 | Ø8 x 60   | 311,527 | TX45    | 10                     | 50 |    |
| TXA08080 | Ø8 x 80   | 382,493 | TX45    | 15                     | 25 |    |
| TXA08120 | Ø8 x 120  | 480,787 | TX45    | 55                     | 25 |    |
| TXA10070 | Ø10 x 70  | 422,877 | TX50    | 15                     | 50 |    |
| TXA10090 | Ø10 x 90  | 546,283 | TX50    | 5                      | 25 |    |
| TXA10120 | Ø10 x 120 | 665,940 | TX50    | 35                     | 25 |    |

### NEW TXE

Concrete screw hexagonal with Bimetal point. Stainless steel A4



SOLID



| CODE     | SIZE      | €/100   | FIXTURE | THICKNESS MAX. FIXTURE | kg  | kg |
|----------|-----------|---------|---------|------------------------|-----|----|
| TXE06040 | Ø6 x 40   | 224,867 | 10      | 5                      | 100 |    |
| TXE06060 | Ø6 x 60   | 251,333 | 10      | 5                      | 100 |    |
| TXE08070 | Ø8 x 70   | 362,343 | 13      | 5                      | 50  |    |
| TXE08080 | Ø8 x 80   | 400,020 | 13      | 15                     | 25  |    |
| TXE08090 | Ø8 x 90   | 450,023 | 13      | 25                     | 25  |    |
| TXE08105 | Ø8 x 105  | 525,027 | 13      | 40                     | 25  |    |
| TXE10070 | Ø10 x 70  | 441,697 | 15      | 15                     | 50  |    |
| TXE10090 | Ø10 x 90  | 567,897 | 15      | 5                      | 25  |    |
| TXE10100 | Ø10 x 100 | 609,187 | 15      | 15                     | 25  |    |
| TXE10120 | Ø10 x 120 | 693,627 | 15      | 35                     | 25  |    |
| TXE12080 | Ø12 x 80  | 659,273 | 18      | 5                      | 25  |    |
| TXE12110 | Ø12 x 110 | 906,500 | 18      | 5                      | 25  |    |

Concrete screw anchor

TH/TF

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| CODE     | SEISMICASSESSMENT | DRILL Ø X LENGTH | €/100     |    | THICKNESS MAX. FIXTURE |     |       |
|----------|-------------------|------------------|-----------|----|------------------------|-----|-------|
| TFE05040 | -                 | Ø5 x 40          | 41,217    | 8  | 5                      | 100 | 2.400 |
| TFE05050 | -                 | Ø5 x 50          | 47,807    | 8  | 5                      | 100 | 1.600 |
| TFE05060 | -                 | Ø5 x 60          | 51,060    | 8  | 15                     | 100 | 1.600 |
| TFE05080 | -                 | Ø5 x 80          | 66,970    | 8  | 35                     | 50  | 800   |
| TFE05100 | -                 | Ø5 x 100         | 77,853    | 8  | 55                     | 50  | 800   |
| TFE06040 | -                 | Ø6 x 40          | 52,310    | 10 | 5                      | 100 | 1.600 |
| TFE06050 | C1                | Ø6 x 50          | 56,517    | 10 | 15                     | 100 | 1.200 |
| TFE06060 | C1                | Ø6 x 60          | 62,937    | 10 | 5                      | 100 | 1.200 |
| TFE06070 | C1                | Ø6 x 70          | 69,757    | 10 | 15                     | 50  | 600   |
| TFE06080 | C1                | Ø6 x 80          | 78,427    | 10 | 25                     | 50  | 800   |
| TFE06100 | C1                | Ø6 x 100         | 98,573    | 10 | 45                     | 25  | 400   |
| TFE06120 | C1                | Ø6 x 120         | 112,370   | 10 | 65                     | 25  | 400   |
| TFE08055 | C1 & C2           | Ø8 x 55          | 100,723   | 13 | 5                      | 50  | 600   |
| TFE08060 | C1 & C2           | Ø8 x 60          | 102,727   | 13 | 10                     | 50  | 600   |
| TFE08070 | C1 & C2           | Ø8 x 70          | 113,320   | 13 | 5                      | 50  | 200   |
| TFE08080 | C1 & C2           | Ø8 x 80          | 126,913   | 13 | 15                     | 25  | 400   |
| TFE08090 | C1 & C2           | Ø8 x 90          | 136,993   | 13 | 25                     | 25  | 400   |
| TFE08100 | C1 & C2           | Ø8 x 100         | 144,603   | 13 | 35                     | 25  | 400   |
| TFE08110 | C1 & C2           | Ø8 x 110         | 151,120   | 13 | 45                     | 25  | 400   |
| TFE08120 | C1 & C2           | Ø8 x 120         | 207,610   | 13 | 55                     | 25  | 400   |
| TFE08140 | C1 & C2           | Ø8 x 140         | 213,663   | 13 | 75                     | 25  | 300   |
| TFE10060 | -                 | Ø10 x 60         | 181,627   | 15 | 5                      | 50  | 200   |
| TFE10070 | -                 | Ø10 x 70         | 197,127   | 15 | 15                     | 50  | 200   |
| TFE10080 | -                 | Ø10 x 80         | 212,087   | 15 | 25                     | 50  | 300   |
| TFE10090 | C1 & C2           | Ø10 x 90         | 219,513   | 15 | 5                      | 25  | 300   |
| TFE10100 | C1 & C2           | Ø10 x 100        | 226,520   | 15 | 15                     | 25  | 300   |
| TFE10120 | C1 & C2           | Ø10 x 120        | 260,340   | 15 | 35                     | 25  | 200   |
| TFE10140 | C1 & C2           | Ø10 x 140        | 288,810   | 15 | 55                     | 25  | 100   |
| TFE12080 | -                 | Ø12 x 80         | 260,537   | 18 | 5                      | 25  | 100   |
| TFE12090 | -                 | Ø12 x 90         | 278,363   | 18 | 15                     | 25  | 100   |
| TFE12110 | C1 & C2           | Ø12 x 110        | 318,013   | 18 | 5                      | 25  | 100   |
| TFE12130 | C1 & C2           | Ø12 x 130        | 365,667   | 18 | 25                     | 25  | 150   |
| TFE12150 | C1 & C2           | Ø12 x 150        | 405,100   | 18 | 45                     | 25  | 100   |
| TFE14080 | -                 | Ø14 x 80         | 374,283   | 21 | 5                      | 25  | 150   |
| TFE14100 | -                 | Ø14 x 100        | 444,460   | 21 | 25                     | 25  | 150   |
| TFE14120 | C1 & C2           | Ø14 x 120        | 517,943   | 21 | 5                      | 25  | 100   |
| TFE14130 | C1 & C2           | Ø14 x 130        | 587,600   | 21 | 15                     | 25  | 100   |
| TFE14140 | C1 & C2           | Ø14 x 140        | 632,803   | 21 | 25                     | 25  | 100   |
| TFE14160 | C1 & C2           | Ø14 x 160        | 688,450   | 21 | 45                     | 25  | 50    |
| TFE16100 | NEW               | Ø16 x 100        | 648,690   | -  | 20                     | 25  | 100   |
| TFE16150 | NEW               | Ø16 x 150        | 895,793   | -  | 30                     | 25  | 75    |
| TFE18100 | C1 & C2           | Ø18 x 100        | 746,090   | 24 | 10                     | 20  | 80    |
| TFE18130 | C1 & C2           | Ø18 x 130        | 870,773   | 24 | 40                     | 20  | 40    |
| TFE18160 | C1 & C2           | Ø18 x 160        | 1.015,070 | 24 | 20                     | 15  | 30    |
| TFE18180 | C1 & C2           | Ø18 x 180        | 1.098,183 | 24 | 40                     | 15  | 30    |
| TFE18200 | C1 & C2           | Ø18 x 200        | 1.204,420 | 24 | 60                     | 10  | 20    |

Hexagon head. Zinc-plated coating. Opt.1 ETA Assessed



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| CODE     | SEISMICASSESSMENT | DRILL Ø X LENGTH | €/100   |    | THICKNESS MAX. FIXTURE |    |     |
|----------|-------------------|------------------|---------|----|------------------------|----|-----|
| TFN14080 | C1                | Ø14 x 80         | 538,737 | 24 | 5                      | 25 | 150 |

Hexagon head without nut. Zinc-plated coating. Opt.1 ETA Assessed



# TH/TF

## Concrete screw anchor

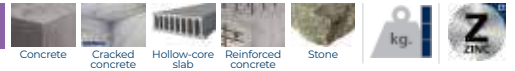
### TFS

Stud bolt. Zinc-plated coating. Opt.1  
ETA Assessed



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P. 384

SOLID



| CODE     | SEISMICASSESSMENT | DRILL Ø X LENGTH | €/100          | N° RECESS | THICKNESS MAX. FIXTURE |    |     |
|----------|-------------------|------------------|----------------|-----------|------------------------|----|-----|
| TFS06100 | C1                | Ø6 x 100 (M8)    | <b>145,240</b> | 5         | 35                     | 50 | 800 |
| TFS06120 | C1                | Ø6 x 120 (M8)    | <b>161,020</b> | 5         | 55                     | 50 | 600 |
| TFS08110 | C1 & C2           | Ø8 x 110 (M10)   | <b>215,297</b> | 7         | 32                     | 50 | 400 |
| TFS08130 | C1 & C2           | Ø8 x 130 (M10)   | <b>239,413</b> | 7         | 52                     | 50 | 400 |
| TFS10120 | C1 & C2           | Ø10 x 120 (M12)  | <b>313,570</b> | 8         | 27                     | 25 | 200 |
| TFS10140 | C1 & C2           | Ø10 x 140 (M12)  | <b>349,543</b> | 8         | 47                     | 25 | 200 |

### TFF

Hanger female. Zinc-plated coating.  
Opt.1 ETA Assessed



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SOLID



| CODE     | DRILL Ø X LENGTH | €/100          |    |    |     |
|----------|------------------|----------------|----|----|-----|
| TFF06035 | Ø6 x 35 (M8-M10) | <b>150,560</b> | 13 | 50 | 200 |
| TFF06055 | Ø6 x 55 (M8-M10) | <b>162,557</b> | 13 | 50 | 200 |

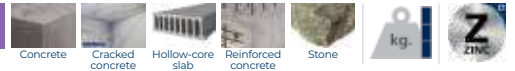
### TFM

Hanger male. Zinc-plated coating.  
Opt.1 ETA Assessed



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P. 384

SOLID



| CODE     | DRILL Ø X LENGTH | €/100          | N° RECESS |     |     |
|----------|------------------|----------------|-----------|-----|-----|
| TFM06035 | Ø6 x 35 (M8)     | <b>115,073</b> | 13        | 100 | 400 |
| TFM06055 | Ø6 x 55 (M10)    | <b>135,150</b> | 13        | 100 | 600 |



Screw for direct fixing

HO

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SOLID



| CODE    | SIZE         | €/100          | INSTALLATION KEY | DRILL Ø |     |       |
|---------|--------------|----------------|------------------|---------|-----|-------|
| HP75072 | 7,5 x 72 Ø6  | <b>36,480</b>  | TX30             | 6       | 100 | 1.200 |
| HP75092 | 7,5 x 92 Ø6  | <b>44,937</b>  | TX30             | 6       | 100 | 1.200 |
| HP75112 | 7,5 x 112 Ø6 | <b>57,620</b>  | TX30             | 6       | 100 | 800   |
| HP75132 | 7,5 x 132 Ø6 | <b>66,070</b>  | TX30             | 6       | 100 | 600   |
| HP75152 | 7,5 x 152 Ø6 | <b>84,450</b>  | TX30             | 6       | 100 | 600   |
| HP75182 | 7,5 x 182 Ø6 | <b>118,643</b> | TX30             | 6       | 100 | 300   |

HP

Flat head, TX recess. Yellow zinc-plated



Self-service

| CODE      | SIZE         | €/BAG        | PCS | BAGS |
|-----------|--------------|--------------|-----|------|
| LSHP75072 | 7,5 x 72 Ø6  | <b>5,752</b> | 14  | 7    |
| LSHP75092 | 7,5 x 92 Ø6  | <b>6,736</b> | 14  | 7    |
| LSHP75112 | 7,5 x 112 Ø6 | <b>7,103</b> | 12  | 7    |
| LSHP75132 | 7,5 x 132 Ø6 | <b>8,146</b> | 12  | 7    |

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SOLID



| CODE     | SIZE         | €/100          | INSTALLATION KEY | DRILL Ø |     |       |
|----------|--------------|----------------|------------------|---------|-----|-------|
| HPZ75072 | 7,5 x 72 Ø6  | <b>36,480</b>  | TX30             | 6       | 100 | 1.200 |
| HPZ75092 | 7,5 x 92 Ø6  | <b>44,937</b>  | TX30             | 6       | 100 | 1.200 |
| HPZ75112 | 7,5 x 112 Ø6 | <b>57,620</b>  | TX30             | 6       | 100 | 800   |
| HPZ75132 | 7,5 x 132 Ø6 | <b>66,070</b>  | TX30             | 6       | 100 | 600   |
| HPZ75152 | 7,5 x 152 Ø6 | <b>84,450</b>  | TX30             | 6       | 100 | 600   |
| HPZ75182 | 7,5 x 182 Ø6 | <b>118,643</b> | TX30             | 6       | 100 | 300   |
| HPZ75212 | 7,5 x 212 Ø6 | <b>174,237</b> | TX30             | 6       | 100 | 300   |

HPZ

Flat head, TX recess. Zinc-plated



SOLID

PVC

| CODE    | COLOR | €/100        | INSTALLATION KEY |       |        |
|---------|-------|--------------|------------------|-------|--------|
| TPBLANC | WHITE | <b>5,057</b> | TX30             | 2.000 | 24.000 |
| TPMARRO | BROWN | <b>5,057</b> | TX30             | 2.000 | 24.000 |

HP TP

HP screw caps



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SOLID



| CODE    | SIZE         | €/100         | INSTALLATION KEY | DRILL Ø |     |       |
|---------|--------------|---------------|------------------|---------|-----|-------|
| HR75072 | 7,5 x 72 Ø6  | <b>39,937</b> | TX30             | 6       | 100 | 1.200 |
| HR75092 | 7,5 x 92 Ø6  | <b>51,467</b> | TX30             | 6       | 100 | 1.200 |
| HR75112 | 7,5 x 112 Ø6 | <b>62,217</b> | TX30             | 6       | 100 | 800   |
| HR75132 | 7,5 x 132 Ø6 | <b>79,327</b> | TX30             | 6       | 100 | 600   |

HR

Cylindrical head TX

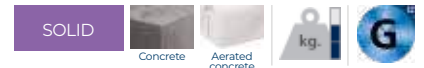


# HO

## Screw for direct fixing

### HEA

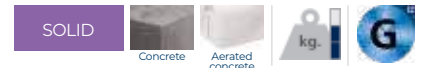
Screw



| CODE    | SIZE                    | €/100          | INSTALLATION KEY | DRILL Ø |       |       |
|---------|-------------------------|----------------|------------------|---------|-------|-------|
| HE65032 | 6,5 x 32 Ø5             | <b>18,070</b>  | 8+ ranura        | 5       | 1.000 | 3.000 |
| HE65045 | 6,5 x 45 Ø5             | <b>22,207</b>  | 8+ ranura        | 5       | 500   | 2.000 |
| HE65057 | 6,5 x 57 Ø5             | <b>28,643</b>  | 8+ ranura        | 5       | 500   | 2.000 |
| HE65070 | 6,5 x 70 Ø5             | <b>36,590</b>  | 8+ ranura        | 5       | 500   | 1.500 |
| HE65080 | 6,5 x 80 Ø5             | <b>43,593</b>  | 8+ ranura        | 5       | 250   | 1.000 |
| HE65100 | 6,5 x 100 Ø5            | <b>53,287</b>  | 8+ ranura        | 5       | 250   | 750   |
| HE65125 | 6,5 x 125 Ø5            | <b>69,183</b>  | 8+ ranura        | 5       | 250   | 1.000 |
| HE65115 | <b>NEW</b> 6,5 x 115 Ø5 | <b>63,650</b>  | 8+ ranura        | 5       | 250   | 1.000 |
| HE65200 | <b>NEW</b> 6,5 x 200 Ø5 | <b>178,477</b> | 8+ ranura        | 5       | 100   | 300   |
| HE65180 | <b>NEW</b> 6,5 x 180 Ø5 | <b>137,633</b> | 8+ ranura        | 5       | 100   | 400   |
| HE65150 | <b>NEW</b> 6,5 x 150 Ø5 | <b>87,570</b>  | 8+ ranura        | 5       | 250   | 750   |

### HEA + ARVUL

Screw with vulcanized EPDM-steel washer



| CODE      | SIZE                        | €/100          | INSTALLATION KEY | DRILL Ø |       |       |
|-----------|-----------------------------|----------------|------------------|---------|-------|-------|
| HE1665032 | 6,5 x 32 P16 Ø5             | <b>28,303</b>  | 8+ ranura        | 5       | 1.000 | 2.000 |
| HE1665045 | 6,5 x 45 P16 Ø5             | <b>33,327</b>  | 8+ ranura        | 5       | 500   | 1.500 |
| HE1665057 | 6,5 x 57 P16 Ø5             | <b>40,653</b>  | 8+ ranura        | 5       | 500   | 1.500 |
| HE1665070 | 6,5 x 70 P16 Ø5             | <b>46,013</b>  | 8+ ranura        | 5       | 500   | 1.000 |
| HE1665080 | 6,5 x 80 P16 Ø5             | <b>55,363</b>  | 8+ ranura        | 5       | 250   | 750   |
| HE1665100 | 6,5 x 100 P16 Ø5            | <b>64,787</b>  | 8+ ranura        | 5       | 250   | 750   |
| HE1665125 | 6,5 x 125 P16 Ø5            | <b>82,210</b>  | 8+ ranura        | 5       | 250   | 500   |
| HE1665200 | <b>NEW</b> 6,5 X 200 P16 Ø5 | <b>185,053</b> | 8+ ranura        | 5       | 100   | 300   |
| HE1665115 | <b>NEW</b> 6,5 x 115 P16 Ø5 | <b>74,505</b>  | 8+ ranura        | 5       | 250   | 750   |
| HE1665180 | <b>NEW</b> 6,5 x 180 P16 Ø5 | <b>144,440</b> | 8+ ranura        | 5       | 100   | 300   |
| HE1665150 | <b>NEW</b> 6,5 x 150 P16 Ø5 | <b>94,147</b>  | 8+ ranura        | 5       | 250   | 500   |

Heavy duty anchor for high performance in concrete

SL

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SOLID



| CODE      | SIZE          | €/100     | THICKNESS MAX. FIXTURE |    |     |
|-----------|---------------|-----------|------------------------|----|-----|
| SLPT10070 | M6 x 70 Ø10   | 255,673   | 10                     | 50 | 600 |
| SLPT10080 | M6 x 80 Ø10   | 268,277   | 20                     | 50 | 600 |
| SLPT10100 | M6 x 100 Ø10  | 299,417   | 40                     | 50 | 300 |
| SLPT10110 | M6 x 110 Ø10  | 317,923   | 50                     | 25 | 150 |
| SLPT12080 | M8 x 80 Ø12   | 308,253   | 5                      | 50 | 300 |
| SLPT12090 | M8 x 90 Ø12   | 324,470   | 15                     | 50 | 200 |
| SLPT12100 | M8 x 100 Ø12  | 338,147   | 25                     | 50 | 200 |
| SLPT12120 | M8 x 120 Ø12  | 369,167   | 45                     | 25 | 200 |
| SLPT16100 | M10 x 100 Ø16 | 527,230   | 15                     | 25 | 150 |
| SLPT16120 | M10 x 120 Ø16 | 595,623   | 35                     | 25 | 100 |
| SLPT16140 | M10 x 140 Ø16 | 672,610   | 55                     | 20 | 60  |
| SLPT16160 | M10 x 160 Ø16 | 748,457   | 75                     | 20 | 60  |
| SLPT18110 | M12 x 110 Ø18 | 734,020   | 10                     | 20 | 80  |
| SLPT18120 | M12 x 120 Ø18 | 780,290   | 20                     | 20 | 80  |
| SLPT18140 | M12 x 140 Ø18 | 861,453   | 40                     | 20 | 80  |
| SLPT18150 | M12 x 150 Ø18 | 910,957   | 50                     | 20 | 80  |
| SLPT18170 | M12 x 170 Ø18 | 1.023,400 | 70                     | 15 | 45  |
| SLPT18200 | M12 x 200 Ø18 | 1.144,457 | 100                    | 15 | 30  |
| SLPT24140 | M16 x 140 Ø24 | 1.322,820 | 20                     | 10 | 40  |
| SLPT24170 | M16 x 170 Ø24 | 1.555,443 | 50                     | 10 | 30  |
| SLPT24200 | M16 x 200 Ø24 | 1.794,737 | 80                     | 10 | 20  |
| SLPT24220 | M16 x 220 Ø24 | 1.949,670 | 100                    | 10 | 20  |
| SLPT28170 | M20 x 170 Ø28 | 2.057,117 | 20                     | 10 | 20  |
| SLPT28200 | M20 x 200 Ø28 | 2.381,807 | 50                     | 10 | 20  |
| SLPT28240 | M20 x 240 Ø28 | 2.839,060 | 90                     | 5  | 10  |

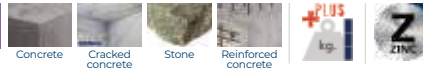
SL-PT

Opt.1 ETA Assessed. Hexagonal head



02 Technical info  
P. 336

SOLID



| CODE      | SIZE          | €/100     | THICKNESS MAX. FIXTURE |    |     |
|-----------|---------------|-----------|------------------------|----|-----|
| SLPC10070 | M6 x 70 Ø10   | 386,723   | 10                     | 50 | 600 |
| SLPC10080 | M6 x 80 Ø10   | 407,693   | 20                     | 50 | 600 |
| SLPC10100 | M6 x 100 Ø10  | 445,620   | 40                     | 50 | 300 |
| SLPC12100 | M8 x 100 Ø12  | 529,927   | 25                     | 50 | 200 |
| SLPC16100 | M10 x 100 Ø16 | 765,227   | 15                     | 25 | 150 |
| SLPC16120 | M10 x 120 Ø16 | 830,910   | 35                     | 25 | 100 |
| SLPC18120 | M12 x 120 Ø18 | 1.029,420 | 20                     | 20 | 80  |

SL-PC

Opt.1 ETA Assessed. Countersunk head





**CH sleeve anchors are an ideal solution for the installation of structural elements in non-cracked concrete such as handrails, cable lines, street furniture or metal shelves.** The geometry of the anchor guarantees a high load capacity, a high degree of safety and easy installation. When tightening the anchor, the cone is inserted into the expansion sleeve (without turning thanks to the anti-rotation), expanding it against the material to be fixed. The assortment of CH anchors consists of different head models depending on the required use.



## DESIGN AND GEOMETRY



- 1. Cone with anti-rotation fins** prevents the anchor from turning, ensuring the expansion of the sleeve and facilitating its installation.
- 2. Sleeve opening** Optimizes the insertion of the cone and facilitates its expansion.
- 3. Practical information** for the installation (diameter and length) stamped on the sleeve.
- 4. Design of the sleeve** to ensure more efficient expansion.
5. Required **depth mark** to ensure proper performance.
- 6. Blue rubber** with anti-rotation fins that facilitate installation.
- 7. Washer** that increases the fixing surface.

## APPLICATIONS



- Structural fixings in non-cracked concrete.
- Fixing of signs, shelves, panels, porticoes, railings, awnings, fence posts.
- Urban furniture, cinema, theatre and stadium seats.
- Cable trays
- Doors
- Façades
- Temporary fixings

## QUALITIES AND ADVANTAGES



### ANTI-ROTATION GUARANTEE. FACILITATES INSTALLATION.

The anchor consists of several anti-rotation elements (cone, sleeve and rubber) that prevent the anchor from turning at the start of the installation, facilitating installation and guaranteeing optimal expansion and performance.



### MAXIMUM GUARANTEES. APPROVED ACCORDING TO THE HIGHEST QUALITY STANDARDS.

Approved (ETA 18/0018) for use in non-structural concrete.



### VERSATILITY. MULTIPLE USES.

Indicated for the installation of static or quasi-static loads in non-cracked concrete and reinforced concrete. Allows the disassembly of the anchor, unscrewing the screw or threaded element.

## 100% INDEX MANUFACTURED

This allows us to ensure a rigorous control of processes, guarantee the highest quality in our products, provide the best service and obtain a competitive global cost.

## GAMA



| PRODUCT                | CH-TO               | CH-A2                              | CH-8.8              | CH-8.8 E   | CH-PL           | CH-PI                              | CH-ES           | CH-INB                       | CH-INN                             |
|------------------------|---------------------|------------------------------------|---------------------|--|-----------------|------------------------------------|-----------------|------------------------------|------------------------------------|
| HEAD OF THE SCREW      | Hexagonal screw 6.8 | A2 stainless steel hexagonal screw | Hexagonal screw 8.8 | Hexagonal head screw 8.8 for reduced thicknesses | Flat head screw | A2 Stainless steel flat head screw | Projecting bolt | Zinc-plated tamperproof head | Black zinc-plated tamperproof head |
| COATING/SCREW MATERIAL | ZINC                | A2 INOX                            | ZINC                | ZINC   | ZINC            | A2 INOX                            | ZINC            | ZINC                         | BLACK                              |



| PRODUCT                | CH-GA     | CH-GE       | CH-GF            | CH-GF A2                            | CH-AR    | CH-AF           | CH-AF A2                           |
|------------------------|-----------|-------------|------------------|-------------------------------------|----------|-----------------|------------------------------------|
| HEAD OF THE SCREW      | Hook bolt | Hook spiral | Forged hook bolt | A2 Stainless steel forged hook bolt | Eye bolt | Forged eye bolt | A2 Stainless steel forged eye bolt |
| COATING/SCREW MATERIAL | ZINC      | ZINC        | ZINC             | A2 INOX                             | ZINC     | ZINC            | A2 INOX                            |



### THE PERFECT COATING ACCORDING TO THE EXPECTED LEVELS OF CORROSION



**Zinc coating:** suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.



**Black zinc coating:** suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.



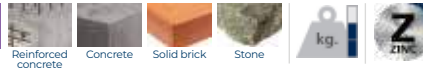
**A2 Stainless Material:** valid for indoor spaces with high frequency of condensation or outdoor environments not located near coastal or highly polluted areas.

## Anti-spin sleeve anchor, for medium loads

# CH

Technical info  
P. 397

SOLID



| CODE      | SIZE          | €/100   |     |       |
|-----------|---------------|---------|-----|-------|
| ACHT08C   | M6 x 45 Ø8    | 29,813  | 200 | 1.200 |
| ACHT08L   | M6 x 60 Ø8    | 34,543  | 200 | 800   |
| • ACHT09C | M6 x 45 Ø9    | 35,447  | 200 | 800   |
| • ACHT09L | M6 x 60 Ø9    | 40,123  | 200 | 800   |
| ACHT10C   | M8 x 60 Ø10   | 47,580  | 100 | 600   |
| ACHT10L   | M8 x 80 Ø10   | 55,780  | 100 | 400   |
| • ACHT11C | M8 x 60 Ø11   | 56,410  | 100 | 400   |
| • ACHT11L | M8 x 80 Ø11   | 67,940  | 100 | 400   |
| ACHT12C   | M10 x 70 Ø12  | 77,563  | 100 | 200   |
| ACHT12L   | M10 x 100 Ø12 | 95,847  | 50  | 200   |
| • ACHT14C | M10 x 70 Ø14  | 97,743  | 100 | 200   |
| • ACHT14L | M10 x 100 Ø14 | 118,810 | 50  | 200   |
| ACHT16C   | M12 x 80 Ø16  | 150,380 | 50  | 200   |
| ACHT16L   | M12 x 110 Ø16 | 182,463 | 50  | 100   |
| ACHT20C   | M16 x 110 Ø20 | 328,803 | 25  | 50    |
| • ACHT25C | M20 x 130 Ø25 | 939,167 | 15  | 45    |

• Non-assessed sizes

## CH-TO

Hexagonal head screw 6.8. Opt.7 ETA Assessed



Blister

| CODE      | SIZE          | €/BAG | PCS | BAGS |
|-----------|---------------|-------|-----|------|
| BZACHT08C | M6 x 45 Ø8    | 3,071 | 2   | 15   |
| BZACHT08L | M6 x 60 Ø8    | 3,071 | 2   | 15   |
| BZACHT10C | M8 x 60 Ø10   | 3,071 | 2   | 15   |
| BZACHT10L | M8 x 80 Ø10   | 3,071 | 2   | 15   |
| BZACHT12C | M10 x 70 Ø12  | 3,071 | 2   | 10   |
| BZACHT12L | M10 x 100 Ø12 | 3,071 | 2   | 10   |

Window box

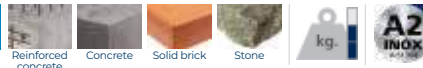
| CODE     | SIZE          | €/BOX | PCS | BOXES |
|----------|---------------|-------|-----|-------|
| VACHT08C | M6 x 45 Ø8    | 5,957 | 15  | 8     |
| VACHT08L | M6 x 60 Ø8    | 6,710 | 15  | 8     |
| VACHT10C | M8 x 60 Ø10   | 6,311 | 10  | 8     |
| VACHT10L | M8 x 80 Ø10   | 7,398 | 10  | 8     |
| VACHT12C | M10 x 70 Ø12  | 7,973 | 8   | 8     |
| VACHT12L | M10 x 100 Ø12 | 7,578 | 6   | 8     |
| VACHT16C | M12 x 80 Ø16  | 7,667 | 4   | 8     |

Self-service

| CODE      | SIZE          | €/BAG | PCS | BAGS |
|-----------|---------------|-------|-----|------|
| LSACHT08C | M6 x 45 Ø8    | 9,179 | 24  | 6    |
| LSACHT08L | M6 x 60 Ø8    | 7,230 | 16  | 6    |
| LSACHT10C | M8 x 60 Ø10   | 5,394 | 8   | 6    |
| LSACHT10L | M8 x 80 Ø10   | 5,936 | 8   | 6    |
| LSACHT12C | M10 x 70 Ø12  | 7,821 | 8   | 6    |
| LSACHT12L | M10 x 100 Ø12 | 9,082 | 8   | 6    |
| LSACHT16C | M12 x 80 Ø16  | 7,560 | 4   | 5    |

Technical info  
P. 397

STAINLESS STEEL



| CODE        | SIZE          | €/100     |     |       |
|-------------|---------------|-----------|-----|-------|
| ACHTA208C   | M6 x 45 Ø8    | 108,443   | 100 | 1.200 |
| ACHTA208L   | M6 x 60 Ø8    | 122,510   | 100 | 600   |
| • ACHTA209C | M6 x 45 Ø9    | 122,717   | 100 | 1.200 |
| • ACHTA209L | M6 x 60 Ø9    | 141,740   | 100 | 600   |
| ACHTA210C   | M8 x 60 Ø10   | 175,700   | 100 | 600   |
| ACHTA210L   | M8 x 80 Ø10   | 202,117   | 100 | 400   |
| • ACHTA211C | M8 x 60 Ø11   | 211,377   | 100 | 400   |
| • ACHTA211L | M8 x 80 Ø11   | 248,997   | 100 | 400   |
| ACHTA212C   | M10 x 70 Ø12  | 296,393   | 100 | 200   |
| ACHTA212L   | M10 x 100 Ø12 | 362,480   | 50  | 200   |
| • ACHTA214C | M10 x 70 Ø14  | 394,277   | 100 | 300   |
| • ACHTA214L | M10 x 100 Ø14 | 439,770   | 50  | 200   |
| ACHTA216C   | M12 x 80 Ø16  | 584,443   | 50  | 100   |
| ACHTA216L   | M12 x 110 Ø16 | 739,557   | 50  | 100   |
| ACHTA220C   | M16 x 110 Ø20 | 1.518,350 | 25  | 75    |

• Non-assessed sizes

## CH-A2

A2 Stainless steel. Opt.7 ETA Assessed



Blister

| CODE        | SIZE        | €/BAG | PCS | BAGS |
|-------------|-------------|-------|-----|------|
| BZACHTA208C | M6 x 45 Ø8  | 4,146 | 2   | 15   |
| BZACHTA208L | M6 x 60 Ø8  | 4,146 | 2   | 15   |
| BZACHTA210C | M8 x 60 Ø10 | 4,146 | 2   | 15   |
| BZACHTA210L | M8 x 80 Ø10 | 4,146 | 2   | 15   |

Window box

| CODE       | SIZE          | €/BOX  | PCS | BOXES |
|------------|---------------|--------|-----|-------|
| VACHTA208C | M6 x 45 Ø8    | 12,875 | 10  | 8     |
| VACHTA208L | M6 x 60 Ø8    | 14,969 | 10  | 8     |
| VACHTA210C | M8 x 60 Ø10   | 13,407 | 6   | 8     |
| VACHTA210L | M8 x 80 Ø10   | 15,963 | 6   | 8     |
| VACHTA212C | M10 x 70 Ø12  | 15,045 | 4   | 8     |
| VACHTA212L | M10 x 100 Ø12 | 18,570 | 4   | 8     |

Self-service

| CODE        | SIZE          | €/BAG  | PCS | BAGS |
|-------------|---------------|--------|-----|------|
| LSACHTA208C | M6 x 45 Ø8    | 13,643 | 12  | 6    |
| LSACHTA208L | M6 x 60 Ø8    | 15,860 | 12  | 6    |
| LSACHTA210C | M8 x 60 Ø10   | 15,781 | 8   | 6    |
| LSACHTA210L | M8 x 80 Ø10   | 18,790 | 8   | 6    |
| LSACHTA212C | M10 x 70 Ø12  | 19,927 | 6   | 6    |
| LSACHTA212L | M10 x 100 Ø12 | 18,215 | 4   | 5    |

# CH

Anti-spin sleeve anchor, for medium loads

## CH-8.8

Hexagonal head screw 8.8. Opt.7 ETA Assessed



02 Technical info P. 387

SOLID

| CODE      | SIZE          | €/100   |     |       |
|-----------|---------------|---------|-----|-------|
| ACHT8808C | M6 x 45 Ø8    | 34,590  | 200 | 1.200 |
| ACHT8808L | M6 x 60 Ø8    | 39,717  | 200 | 800   |
| ACHT8810C | M8 x 60 Ø10   | 54,563  | 100 | 600   |
| ACHT8810L | M8 x 80 Ø10   | 66,337  | 100 | 400   |
| ACHT8812C | M10 x 70 Ø12  | 88,940  | 100 | 200   |
| ACHT8812L | M10 x 100 Ø12 | 109,910 | 50  | 200   |
| ACHT8816C | M12 x 80 Ø16  | 167,957 | 50  | 200   |
| ACHT8816L | M12 x 110 Ø16 | 203,790 | 50  | 100   |
| ACHT8820C | M16 x 110 Ø20 | 360,660 | 25  | 50    |

## CH-8.8 E

Hexagonal head screw 8.8 for reduced thicknesses



02 Technical info P. 388

SOLID

| CODE      | SIZE        | €/100  |     |       |
|-----------|-------------|--------|-----|-------|
| ACHT8808E | M6 x 40 Ø8  | 38,713 | 200 | 1.200 |
| ACHT8810E | M8 x 40 Ø10 | 66,107 | 100 | 600   |

## CH-PL

Flat head screw. Opt.7 ETA Assessed



02 Technical info P. 388

SOLID

| CODE      | SIZE          | €/100   |   |     |       |
|-----------|---------------|---------|---|-----|-------|
| ACHTPL08C | M6 x 45 Ø8    | 54,787  | 4 | 100 | 1.600 |
| ACHTPL08L | M6 x 60 Ø8    | 80,350  | 4 | 100 | 1.200 |
| ACHTPL10C | M8 x 60 Ø10   | 90,033  | 5 | 100 | 400   |
| ACHTPL10L | M8 x 80 Ø10   | 121,373 | 5 | 100 | 600   |
| ACHTPL12C | M10 x 70 Ø12  | 159,410 | 6 | 50  | 400   |
| ACHTPL12L | M10 x 100 Ø12 | 273,323 | 6 | 50  | 300   |

## CH-PI

A2 Stainless steel flat head screw. Opt.7 ETA Assessed



02 Technical info P. 388

STAINLESS STEEL

| CODE      | SIZE          | €/100   |   |     |       |
|-----------|---------------|---------|---|-----|-------|
| ACHTPI08C | M6 x 45 Ø8    | 112,810 | 4 | 100 | 1.200 |
| ACHTPI08L | M6 x 60 Ø8    | 144,447 | 4 | 100 | 1.200 |
| ACHTPI10C | M8 x 60 Ø10   | 212,813 | 5 | 100 | 600   |
| ACHTPI10L | M8 x 80 Ø10   | 251,930 | 5 | 100 | 400   |
| ACHTPI12C | M10 x 70 Ø12  | 336,513 | 6 | 50  | 300   |
| ACHTPI12L | M10 x 100 Ø12 | 397,293 | 6 | 50  | 300   |



Anti-spin sleeve anchor, for medium loads

# CH

02 Technical info P. 388

SOLID



| CODE      | SIZE        | €/100         |      |     |       |
|-----------|-------------|---------------|------|-----|-------|
| ACHINB08C | M6 x 45 Ø8  | <b>52,597</b> | TX40 | 100 | 1.200 |
| ACHINB08L | M6 x 60 Ø8  | <b>60,280</b> | TX40 | 100 | 800   |
| ACHINB10C | M8 x 60 Ø10 | <b>74,590</b> | TX40 | 100 | 600   |
| ACHINB10L | M8 x 80 Ø10 | <b>87,980</b> | TX40 | 100 | 400   |

Blister

| CODE        | SIZE        | €/BAG        | PCS BAG | BAGS |
|-------------|-------------|--------------|---------|------|
| BZACHINB08C | M6 x 45 Ø8  | <b>3,071</b> | 2       | 15   |
| BZACHINB10C | M8 x 60 Ø10 | <b>3,071</b> | 2       | 15   |

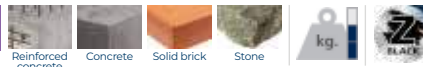
## CH-INB

Zinc-plated tamperproof head. Opt.7  
ETA Assessed



02 Technical info P. 388

SOLID



| CODE      | SIZE        | €/100          |      |     |       |
|-----------|-------------|----------------|------|-----|-------|
| ACHINN08C | M6 x 45 Ø8  | <b>64,097</b>  | TX40 | 100 | 1.200 |
| ACHINN08L | M6 x 60 Ø8  | <b>71,813</b>  | TX40 | 100 | 800   |
| ACHINN10C | M8 x 60 Ø10 | <b>86,273</b>  | TX40 | 100 | 600   |
| ACHINN10L | M8 x 80 Ø10 | <b>103,617</b> | TX40 | 100 | 400   |

## CH-INN

Black zinc-plated tamperproof head.  
Opt.7 ETA Assessed



02 Technical info P. 388

SOLID



| CODE    | SIZE          | €/100          |     |       |
|---------|---------------|----------------|-----|-------|
| ACHE08C | M6 x 45 Ø8    | <b>55,217</b>  | 200 | 1.200 |
| ACHE09C | M6 x 45 Ø9    | <b>57,150</b>  | 200 | 800   |
| ACHE10C | M8 x 60 Ø10   | <b>81,670</b>  | 100 | 600   |
| ACHE10L | M8 x 80 Ø10   | <b>95,103</b>  | 100 | 400   |
| ACHE11C | M8 x 60 Ø11   | <b>90,063</b>  | 100 | 600   |
| ACHE11L | M8 x 80 Ø11   | <b>99,533</b>  | 100 | 400   |
| ACHE12C | M10 x 70 Ø12  | <b>115,730</b> | 100 | 200   |
| ACHE12L | M10 x 100 Ø12 | <b>151,463</b> | 50  | 200   |
| ACHE14C | M10 x 70 Ø14  | <b>127,273</b> | 100 | 200   |
| ACHE14L | M10 x 100 Ø14 | <b>170,913</b> | 50  | 200   |

## CH-ES

Projecting bolt



# CH

Anti-spin sleeve anchor, for medium loads

## CH-GA

Hook bolt



02 Technical info P. 388

**SOLID**

| CODE    | SIZE         | €/100          | APERTURE HOOK |     |     |
|---------|--------------|----------------|---------------|-----|-----|
| ACHG08C | M6 x 45 Ø8   | <b>50,543</b>  | 10            | 100 | 600 |
| ACHG09C | M6 x 45 Ø9   | <b>52,907</b>  | 10            | 100 | 600 |
| ACHG10C | M8 x 60 Ø10  | <b>84,053</b>  | 13            | 100 | 400 |
| ACHG11C | M8 x 60 Ø11  | <b>92,560</b>  | 13            | 100 | 400 |
| ACHG12C | M10 x 70 Ø12 | <b>135,997</b> | 14            | 50  | 200 |
| ACHG14C | M10 x 70 Ø14 | <b>155,840</b> | 14            | 50  | 200 |
| ACHG16C | M12 x 80 Ø16 | <b>246,957</b> | 22            | 25  | 100 |

02 Blister P. 388

| CODE      | SIZE         | €/BAG        | PCS | BAGS |
|-----------|--------------|--------------|-----|------|
| BZACHG08C | M6 x 45 Ø8   | <b>3,071</b> | 2   | 15   |
| BZACHG10C | M8 x 60 Ø10  | <b>3,071</b> | 2   | 15   |
| BZACHG12C | M10 x 70 Ø12 | <b>3,071</b> | 2   | 10   |

02 Window box P. 388

| CODE     | SIZE        | €/BOX        | PCS | BOXES |
|----------|-------------|--------------|-----|-------|
| VACHG08C | M6 x 45 Ø8  | <b>6,327</b> | 10  | 8     |
| VACHG10C | M8 x 60 Ø10 | <b>6,422</b> | 6   | 8     |

02 Self-service P. 388

| CODE      | SIZE        | €/BAG        | PCS | BAGS |
|-----------|-------------|--------------|-----|------|
| LSACHG08C | M6 x 45 Ø8  | <b>7,274</b> | 12  | 6    |
| LSACHG10C | M8 x 60 Ø10 | <b>6,299</b> | 6   | 6    |

## CH-GE

Hook spiral



02 Technical info P. 389

**SOLID**

| CODE    | SIZE          | €/100          |    |     |
|---------|---------------|----------------|----|-----|
| ACHGE10 | M8 x 115 Ø10  | <b>195,917</b> | 25 | 200 |
| ACHGE12 | M10 x 135 Ø12 | <b>230,517</b> | 15 | 90  |

## CH-GF

Forged hook bolt



02 Technical info P. 389

**SOLID**

| CODE      | SIZE         | €/100          | APERTURE HOOK |     |     |
|-----------|--------------|----------------|---------------|-----|-----|
| ACHGF008C | M6 x 45 Ø8   | <b>108,753</b> | 10            | 100 | 600 |
| ACHGF010C | M8 x 60 Ø10  | <b>148,077</b> | 11            | 100 | 400 |
| ACHGF012C | M10 x 70 Ø12 | <b>237,847</b> | 14            | 50  | 200 |

## CH-GF A2

A2 Stainless steel forged hook bolt



02 Technical info P. 389

**STAINLESS STEEL**

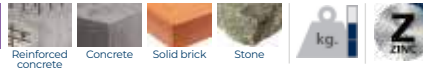
| CODE      | SIZE         | €/100          | APERTURE HOOK |     |     |
|-----------|--------------|----------------|---------------|-----|-----|
| ACHGA208C | M6 x 45 Ø8   | <b>400,150</b> | 10            | 100 | 600 |
| ACHGA210C | M8 x 60 Ø10  | <b>594,390</b> | 11            | 100 | 400 |
| ACHGA212C | M10 x 70 Ø12 | <b>828,000</b> | 14            | 50  | 200 |

Anti-spin sleeve anchor, for medium loads

CH

02 Technical info P. 329

SOLID



| CODE    | SIZE         | €/100   | EYE BOLT Ø |     |     |
|---------|--------------|---------|------------|-----|-----|
| ACHA08C | M6 x 45 Ø8   | 51,647  | 10         | 100 | 600 |
| ACHA09C | M6 x 45 Ø9   | 54,060  | 10         | 100 | 600 |
| ACHA10C | M8 x 60 Ø10  | 85,883  | 13         | 100 | 400 |
| ACHA11C | M8 x 60 Ø11  | 94,577  | 13         | 100 | 200 |
| ACHA12C | M10 x 70 Ø12 | 138,957 | 14         | 50  | 200 |
| ACHA14C | M10 x 70 Ø14 | 159,227 | 14         | 50  | 200 |
| ACHA16C | M12 x 80 Ø16 | 252,327 | 22         | 25  | 100 |

CH-AR

Eye bolt



02 Blister

02 Window box

02 Self-service

| CODE      | SIZE         | €/BAG | PCS | BAGS |
|-----------|--------------|-------|-----|------|
| BZACHA08C | M6 x 45 Ø8   | 3,071 | 2   | 15   |
| BZACHA10C | M8 x 60 Ø10  | 3,071 | 2   | 15   |
| BZACHA12C | M10 x 70 Ø12 | 3,071 | 2   | 10   |

| CODE     | SIZE        | €/BOX | PCS | BOXES |
|----------|-------------|-------|-----|-------|
| VACHA08C | M6 x 45 Ø8  | 6,441 | 10  | 8     |
| VACHA10C | M8 x 60 Ø10 | 6,422 | 6   | 8     |

| CODE      | SIZE        | €/BAG | PCS | BAGS |
|-----------|-------------|-------|-----|------|
| LSACHA08C | M6 x 45 Ø8  | 8,613 | 14  | 6    |
| LSACHA10C | M8 x 60 Ø10 | 6,299 | 6   | 6    |

02 Technical info P. 329

SOLID



| CODE      | SIZE         | €/100   | EYE BOLT Ø |     |     |
|-----------|--------------|---------|------------|-----|-----|
| ACHAFO08C | M6 x 45 Ø8   | 102,893 | 10         | 100 | 600 |
| ACHAFO10C | M8 x 60 Ø10  | 134,397 | 12         | 100 | 400 |
| ACHAFO12C | M10 x 70 Ø12 | 206,290 | 14         | 50  | 200 |

CH-AF

Forged eye bolt



02 Technical info P. 329

STAINLESS STEEL



| CODE      | SIZE         | €/100   | EYE BOLT Ø |     |     |
|-----------|--------------|---------|------------|-----|-----|
| ACHAA208C | M6 x 45 Ø8   | 426,207 | 10         | 100 | 600 |
| ACHAA210C | M8 x 60 Ø10  | 679,873 | 11         | 100 | 400 |
| ACHAA212C | M10 x 70 Ø12 | 923,937 | 14         | 50  | 200 |

CH-AF A2

A2 Stainless steel forged eye bolt



Hook bolt, eye bolt and spiral hook available separately on page 328/329





# HE

The range of drop-in expansion anchors with internal thread are designed for installing pipework, cable trays, ventilation ducts or fire sprinkler systems.

They have European technical approval for structural applications in non-cracked concrete (in accordance with EAD 332023) and for the installation of redundant non-structural systems in cracked concrete, including under conditions of fire exposure (in accordance with EAD 330747). Available with ATLANTIS C3-L, A4 stainless steel or zinc-plated coating for use in both indoor and outdoor applications.



## DESIGN AND GEOMETRY



**Inner thread.** The first part of the anchor has an inner thread where the metric bolt and/or threaded bar is installed (bolts and bars not supplied with the product). The metric inner thread guarantees maximum versatility for use in multiple installations.



**Internal cone.** The lower part of the anchor contains a cone that causes the fins to expand during installation.



**Fins.** The expansion of the cone causes the fins to expand, producing friction against the walls of the base material to enable fastening.



**Protection.** The plastic inside the anchor prevents the cone from falling during installation or transportation of the box.



**Version with HE-CL collar.** The version with collar prevents the anchor from being introduced too far into the base material in cases where the bore hole has been made deeper than required by the documentation.



**Identification.** The size of the anchor is punched onto the body to allow easy identification and to always know the required bore size and expansion tool.



**Short version HE-HC.** The HE-HC version enables installation in areas where there are believed to be a lot of reinforcement trusses, such as the lower part of slabs. Given its short length (25 mm) it is not expected to interfere with the trusses.

## APPLICATIONS



**Anchor for fastening structural and non-structural elements**

- Suspended ceiling installations
- Fire sprinkler systems
- Suspension systems for pipes
- Downpipes with rods
- Ventilation systems and/or air ducts
- Cable trays
- Fixation of structural systems in non-cracked concrete with static or quasi-static loads
- Fixing of redundant non-structural systems in cracked concrete or one-off applications in non-cracked concrete.

## 100% INDEX MANUFACTURED

This allows us to ensure a rigorous control of processes, guarantee the highest quality in our products, provide the best service and obtain a competitive global cost.

## QUALITIES AND ADVANTAGES

### REMOVABLE AND REUSABLE ANCHOR.

The bolt or bar used can be removed, leaving a clear surface (the casing and cone remain inside the bore hole). The installed anchor can be reused.

### MAXIMUM GUARANTEES. PRODUCTS APPROVED ACCORDING TO THE HIGHEST QUALITY STANDARDS.

- Approved (ETA 14/0135) for redundant non-structural systems in cracked and non-cracked concrete (C12/15 to C50/60), including under conditions of fire exposure.
- Approved (ETA 14/0068) for structural applications in non-cracked concrete (C20/25 to C50/60).
- FM Approval for use in fire sprinkler systems.
- Confirmed suitability for the installation of sprinkler systems in accordance with the VdS CEA 4001 guidelines.



### EASY INSTALLATION.

The EXP tool with rubber protector enables safe, controlled and ergonomic expansion of the anchor.

### How do I know if the anchor has been installed correctly?

Once the sleeve has been inserted into the hole, hit with the expander until the upper edge of the sleeve is marked with some notches.



## RANGE



| PRODUCT          | HE-HO     | HE-A4      | HE-CL     | HE-C4      | HE-HC     | HE-NO     | HE-NS    |
|------------------|-----------|------------|-----------|------------|-----------|-----------|----------|
| COATING/MATERIAL | Z<br>ZINC | A4<br>INOX | Z<br>ZINC | A4<br>INOX | Z<br>ZINC | Z<br>ZINC | ATLANTIS |
| CE (EN 12855)    | ✓         | ✓          | ✓         | ✓          | ✓         | ✓         | ✓        |
| CE (EN 12856)    | ✓         | ✓          | ✓         | ✓          | ✓         | ✓         | ✓        |
| Fire (EN 12855)  | ✓         | ✓          | ✓         | ✓          | ✓         | ✓         | ✓        |
| FM APPROVED      | ✓         | ✓          | ✓         | ✓          | ✓         | ✓         | ✓        |
| EXPANSION TOOL   | ✓         | ✓          | ✓         | ✓          | ✓         | ✓         | ✓        |

### THE PERFECT COATING ACCORDING TO THE EXPECTED LEVELS OF CORROSION

**Atlantis C3-L coating:** valid for dry indoor conditions (50 years) or in C3-type outdoor environments according to ISO 9223, for a period of 25 years.






**Zinc coating:** suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.



**A4 Stainless Steel:** Suitable for indoor and outdoor applications, in coastal or industrial areas, areas exposed to high pollution levels and areas near roads.

Drop-in anchor with internal thread for heavy loads

HE

Technical info  
P. 389

SOLID     






| CODE     | SIZE         | €/100   | LENGTH |  |  |
|----------|--------------|---------|--------|---|---|
| HEHOM06  | M6 x 25 Ø8   | 18,677  | 25     | 100   | 3.200   |
| HEHOM08  | M8 x 30 Ø10  | 24,203  | 30     | 100   | 1.600   |
| HEHOM10  | M10 x 40 Ø12 | 40,480  | 40     | 50  | 800   |
| HEHOM12  | M12 x 50 Ø15 | 74,417  | 50     | 50  | 400   |
| HEHOM16  | M16 x 65 Ø20 | 191,020 | 65     | 25  | 200   |
| HEHOM20  | M20 x 80 Ø25 | 382,757 | 80     | 25  | 100   |
| HEHOM12D | M12 x 50 Ø16 | 86,860  | 50     | 50  | 400   |



HE-HO

Zinc-plated. Opt.7 ETA Assessed & for non-structural applications



Technical info  
P. 390

STAINLESS STEEL     






| CODE    | SIZE         | €/100     | LENGTH |  |  |
|---------|--------------|-----------|--------|---|---|
| HEA4M06 | M6 x 25 Ø8   | 100,850   | 25     | 100   | 4.000   |
| HEA4M08 | M8 x 30 Ø10  | 143,797   | 30     | 100   | 1.600   |
| HEA4M10 | M10 x 40 Ø12 | 216,100   | 40     | 50  | 800   |
| HEA4M12 | M12 x 50 Ø15 | 430,263   | 50     | 50  | 600   |
| HEA4M16 | M16 x 65 Ø20 | 961,467   | 65     | 25  | 250   |
| HEA4M20 | M20 x 80 Ø25 | 1.756,097 | 80     | 25  | 100   |



HE-A4

A4 Stainless steel. ETA Assessed for non-structural applications



Technical info  
P. 390

SOLID     






| CODE      | SIZE         | €/100   | LENGTH |  |  |
|-----------|--------------|---------|--------|---|---|
| HECLOM06  | M6 x 25 Ø8   | 21,420  | 25     | 100   | 3.200   |
| HECLOM08  | M8 x 30 Ø10  | 29,570  | 30     | 100   | 1.600   |
| HECLOM10  | M10 x 40 Ø12 | 46,227  | 40     | 50  | 800   |
| HECLOM12  | M12 x 50 Ø15 | 83,893  | 50     | 50  | 400   |
| HECLOM16  | M16 x 65 Ø20 | 235,813 | 65     | 25  | 200   |
| HECLOM12D | M12 x 50 Ø16 | 97,817  | 50     | 50  | 400   |



HE-CL

With collar. Zinc-plated. Opt.7 ETA Assessed & for non-structural applications



Technical info  
P. 390

STAINLESS STEEL     

| CODE    | SIZE         | €/100   | LENGTH |  |  |
|---------|--------------|---------|--------|---|---|
| HEC4M06 | M6 x 25 Ø8   | 139,000 | 25     | 100   | 3.200   |
| HEC4M08 | M8 x 30 Ø10  | 199,027 | 30     | 100   | 1.600   |
| HEC4M10 | M10 x 40 Ø12 | 333,597 | 40     | 50  | 800   |
| HEC4M12 | M12 x 50 Ø15 | 599,793 | 50     | 50  | 400   |

HE-C4

With collar. A4 Stainless steel. ETA Assessed for non-structural applications



# HE

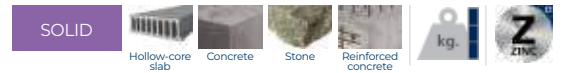
Drop-in anchor with internal thread for heavy loads

## HE-HC

Short. Zinc-plated. ETA Assessed for non-structural applications



Technical info P. 390



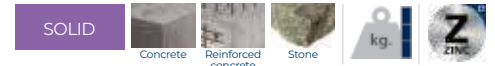
| CODE    | SIZE     | €/100         | LENGTH |     |       |
|---------|----------|---------------|--------|-----|-------|
| HEHCM08 | M8 x 25  | <b>28,357</b> | 25     | 100 | 1.600 |
| HEHCM10 | M10 x 25 | <b>46,180</b> | 25     | 50  | 800   |
| HEHCM12 | M12 x 25 | <b>84,897</b> | 25     | 50  | 800   |

## HE-NO

Zinc-plated



Technical info P. 390



| CODE    | SIZE         | €/100          | LENGTH |     |       |
|---------|--------------|----------------|--------|-----|-------|
| HENOM06 | M6 x 25 Ø8   | <b>13,660</b>  | 25     | 100 | 4.000 |
| HENOM08 | M8 x 30 Ø10  | <b>18,867</b>  | 30     | 100 | 2.200 |
| HENOM10 | M10 x 40 Ø12 | <b>31,550</b>  | 40     | 50  | 1.000 |
| HENOM12 | M12 x 50 Ø15 | <b>57,993</b>  | 50     | 50  | 600   |
| HENOM16 | M16 x 65 Ø20 | <b>146,143</b> | 65     | 25  | 250   |
| HENOM20 | M20 x 80 Ø25 | <b>286,820</b> | 80     | 25  | 100   |

Blister

| CODE      | SIZE         | €/BAG        | PCS | BAGS |
|-----------|--------------|--------------|-----|------|
| BZHENOM06 | M6 x 25 Ø8   | <b>3,071</b> | 4   | 20   |
| BZHENOM08 | M8 x 30 Ø10  | <b>3,071</b> | 4   | 20   |
| BZHENOM10 | M10 x 40 Ø12 | <b>3,071</b> | 2   | 15   |

Window box

| CODE     | SIZE        | €/BOX        | PCS | BOXES |
|----------|-------------|--------------|-----|-------|
| VHENOM06 | M6 x 25 Ø8  | <b>3,208</b> | 15  | 8     |
| VHENOM08 | M8 x 30 Ø10 | <b>3,914</b> | 15  | 8     |

Self-service

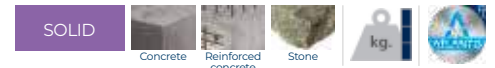
| CODE      | SIZE         | €/BAG        | PCS | BAGS |
|-----------|--------------|--------------|-----|------|
| LSHENOM06 | M6 x 25 Ø8   | <b>5,222</b> | 30  | 7    |
| LSHENOM08 | M8 x 30 Ø10  | <b>6,910</b> | 30  | 7    |
| LSHENOM10 | M10 x 40 Ø12 | <b>6,640</b> | 16  | 7    |

## HE-NS

ATLANTIS C3-L



Technical info P. 390



| CODE    | SIZE         | €/100          | LENGTH |     |       |
|---------|--------------|----------------|--------|-----|-------|
| HENSM08 | M8 x 30 Ø10  | <b>30,340</b>  | 30     | 100 | 1.600 |
| HENSM10 | M10 x 40 Ø12 | <b>49,110</b>  | 40     | 50  | 1.000 |
| HENSM12 | M12 x 50 Ø15 | <b>90,277</b>  | 50     | 50  | 400   |
| HENSM16 | M16 x 65 Ø20 | <b>227,500</b> | 65     | 25  | 250   |

## NEW HE-HO SDS

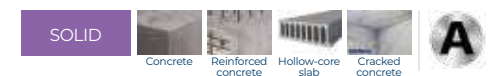
Stop drill bit for HE-HO



| CODE      | SIZE     | €/PC          |   |    |
|-----------|----------|---------------|---|----|
| HEHOSDS06 | Ø8 x 27  | <b>21,766</b> | 1 | 10 |
| HEHOSDS08 | Ø10 x 33 | <b>22,673</b> | 1 | 10 |
| HEHOSDS10 | Ø12 x 43 | <b>23,580</b> | 1 | 10 |
| HEHOSDS12 | Ø15 x 54 | <b>24,940</b> | 1 | 10 |

## NEW HE-HC SDS

Stop drill bit for HE-HC



| CODE      | SIZE     | €/PC          |   |    |
|-----------|----------|---------------|---|----|
| HEHCSDS08 | Ø10 x 28 | <b>22,673</b> | 1 | 10 |
| HEHCSDS10 | Ø12 x 28 | <b>23,580</b> | 1 | 10 |
| HEHCSDS12 | Ø15 x 29 | <b>24,940</b> | 1 | 10 |

Drop-in anchor with internal thread for heavy loads

HE



| CODE    | SIZE | €/100     | LENGTH |   |    |
|---------|------|-----------|--------|---|----|
| EXHBM06 | M6   | 1.139,827 | 210    | 1 | 10 |
| EXHBM08 | M8   | 1.139,827 | 210    | 1 | 10 |
| EXHBM10 | M10  | 1.139,827 | 210    | 1 | 10 |
| EXHBM12 | M12  | 1.139,827 | 210    | 1 | 10 |
| EXHBM16 | M16  | 1.253,809 | 210    | 1 | 10 |
| EXHBM20 | M20  | 1.253,809 | 210    | 1 | 10 |

EXP

Manual setting tool for Drop-in anchors (except HE-HC)



| CODE     | SIZE        | €/100     | LENGTH |   |    |
|----------|-------------|-----------|--------|---|----|
| EXHBM08C | M8 (HE-HC)  | 1.139,827 | 210    | 1 | 10 |
| EXHBM10C | M10 (HE-HC) | 1.139,827 | 210    | 1 | 10 |
| EXHBM12C | M12 (HE-HC) | 1.139,827 | 210    | 1 | 10 |

EXP-C

Manual setting tool for drop in anchors HE-HC



Hollow-core slab anchor. ETA Assessed

HC

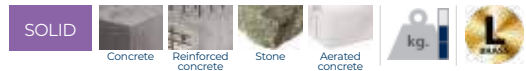


| CODE  | SIZE | €/100   | DRILL Ø |     |     |
|-------|------|---------|---------|-----|-----|
| HCM06 | M6   | 69,910  | 10      | 100 | 600 |
| HCM08 | M8   | 79,897  | 12      | 50  | 600 |
| HCM10 | M10  | 119,847 | 16      | 25  | 300 |



Brass expansion anchor for light fastenings in solid materials

TALA



| CODE    | SIZE          | €/100   | DRILL Ø |     |       |
|---------|---------------|---------|---------|-----|-------|
| TALA532 | W5/32 x 16 Ø5 | 12,687  | 5       | 300 | 9.600 |
| TALAM04 | M4 x 16 Ø5    | 12,687  | 5       | 300 | 9.600 |
| TALAM05 | M5 x 18 Ø6    | 20,707  | 6       | 200 | 6.400 |
| TALAM06 | M6 x 23 Ø8    | 28,553  | 8       | 200 | 4.800 |
| TALAM08 | M8 x 28 Ø10   | 51,263  | 10      | 100 | 2.400 |
| TALAM10 | M10 x 33 Ø12  | 80,080  | 12      | 150 | 1.800 |
| TALAM12 | M12 x 38 Ø15  | 172,310 | 15      | 150 | 900   |



| CODE      | SIZE         | €/BAG | PCS | BAGS |
|-----------|--------------|-------|-----|------|
| BZTALAM06 | M6 x 23 Ø8   | 3,071 | 4   | 20   |
| BZTALAM08 | M8 x 28 Ø10  | 3,071 | 4   | 20   |
| BZTALAM10 | M10 x 33 Ø12 | 3,071 | 2   | 15   |

| CODE     | SIZE         | €/BOX  | PCS | BOXES |
|----------|--------------|--------|-----|-------|
| VTALAM06 | M6 x 23 Ø8   | 7,821  | 25  | 8     |
| VTALAM08 | M8 x 28 Ø10  | 8,303  | 15  | 8     |
| VTALAM10 | M10 x 33 Ø12 | 13,088 | 15  | 8     |

| CODE      | SIZE         | €/BAG  | PCS | BAGS |
|-----------|--------------|--------|-----|------|
| LSTALAM06 | M6 x 23 Ø8   | 13,805 | 50  | 8    |
| LSTALAM08 | M8 x 28 Ø10  | 14,669 | 30  | 7    |
| LSTALAM10 | M10 x 33 Ø12 | 19,251 | 25  | 5    |



# TA-ME

## Steel expansion plug



Technical info  
P. 391

**SOLID** Concrete Reinforced concrete Aerated concrete Solid brick kg. Z

| CODE      | SIZE         | €/100         | DRILL Ø | MIN. ORDER QTY. |     |       |
|-----------|--------------|---------------|---------|-----------------|-----|-------|
| TAME05030 | M5 x 30 Ø5   | <b>12,813</b> | 5       | 200             | 100 | 4,500 |
| TAME06032 | M6 x 32 Ø6   | <b>14,383</b> | 6       | 200             | 100 | 2,400 |
| TAME08038 | M8 x 38 Ø8   | <b>23,850</b> | 8       | 200             | 100 | 1,200 |
| TAME08060 | M8 x 60 Ø8   | <b>33,000</b> | 8       | 100             | 50  | 600   |
| TAME10060 | M10 x 60 Ø10 | <b>38,383</b> | 10      | 50              | 50  | 600   |

Blister

| CODE        | SIZE         | €/BAG        | PCS | BAGS |
|-------------|--------------|--------------|-----|------|
| BZTAME06032 | M6 x 32 Ø6   | <b>3,071</b> | 4   | 20   |
| BZTAME08038 | M8 x 38 Ø8   | <b>3,071</b> | 4   | 20   |
| BZTAME08060 | M8 x 60 Ø8   | <b>3,071</b> | 4   | 20   |
| BZTAME10060 | M10 x 60 Ø10 | <b>3,071</b> | 4   | 20   |

# AN-CU

## Ceiling wedge anchor ETA Assessed



Technical info  
P. 391

**SOLID** Concrete Aerated concrete Cracked concrete Stone kg. Z

| CODE      | SIZE      | €/100         | DRILL Ø |     |       |
|-----------|-----------|---------------|---------|-----|-------|
| ANCU06040 | 6 x 40 Ø6 | <b>26,587</b> | 6       | 100 | 1,200 |
| ANCU06070 | 6 x 70 Ø6 | <b>41,673</b> | 6       | 100 | 1,200 |



# TC-MA

## Metal nail plug with steel drill

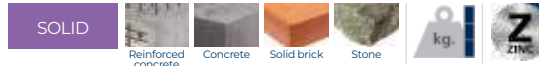


**METAL** Reinforced concrete Concrete Stone Solid brick kg. Z

| CODE      | SIZE      | €/100         | DRILL Ø |     |       |
|-----------|-----------|---------------|---------|-----|-------|
| TCMA05022 | 5 x 22 Ø5 | <b>18,500</b> | 5       | 100 | 2,400 |
| TCMA06030 | 6 x 30 Ø6 | <b>28,227</b> | 6       | 100 | 2,400 |
| TCMA06040 | 6 x 40 Ø6 | <b>31,887</b> | 6       | 100 | 1,200 |
| TCMA06050 | 6 x 50 Ø6 | <b>35,590</b> | 6       | 100 | 1,200 |

Winged steel anchor for heavy-duty fixings

02 Technical info  
P. 393



| CODE    | SIZE          | €/100   | SHIELD LENGHT | MIN. ORDER QTY. |    |       |
|---------|---------------|---------|---------------|-----------------|----|-------|
| AACCA06 | M6 x 40 Ø10   | 31,647  | 40            | -               | 50 | 1.200 |
| AACCA08 | M8 x 50 Ø14   | 49,113  | 50            | 100             | 50 | 600   |
| AACCA10 | M10 x 60 Ø16  | 65,927  | 60            | 100             | 50 | 300   |
| AACCA12 | M12 x 80 Ø20  | 119,437 | 80            | 50              | 25 | 300   |
| AACCA16 | M16 x 100 Ø25 | 312,360 | 100           | 20              | 10 | 120   |

AC-CA

Shield



02 Technical info  
P. 393



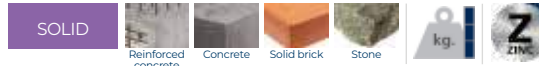
| CODE    | SIZE         | €/100     | SHIELD LENGHT |    |       |
|---------|--------------|-----------|---------------|----|-------|
| AACCI06 | M6 x 40 Ø10  | 353,150   | 40            | 50 | 1.200 |
| AACCI08 | M8 x 50 Ø14  | 640,333   | 50            | 50 | 600   |
| AACCI10 | M10 x 60 Ø16 | 716,530   | 60            | 25 | 300   |
| AACCI12 | M12 x 80 Ø20 | 1.325,597 | 80            | 10 | 120   |

AC-CI

A4 Stainless steel shield



02 Technical info  
P. 393



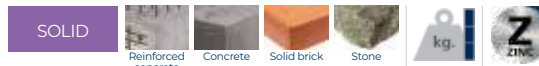
| CODE    | SIZE          | €/100   | SHIELD LENGHT |    |     |
|---------|---------------|---------|---------------|----|-----|
| AACTO06 | M6 x 40 Ø10   | 49,127  | 40            | 50 | 600 |
| AACTO08 | M8 x 50 Ø14   | 84,577  | 50            | 50 | 300 |
| AACTO10 | M10 x 60 Ø16  | 124,907 | 60            | 50 | 200 |
| AACTO12 | M12 x 80 Ø20  | 239,117 | 80            | 25 | 100 |
| AACTO16 | M16 x 125 Ø25 | 561,673 | 100           | 10 | 30  |

AC-TO

Loose bolt 6.8



02 Technical info  
P. 394



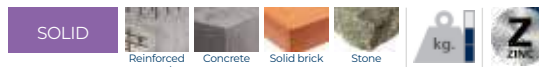
| CODE    | SIZE         | €/100   | SHIELD LENGHT |    |     |
|---------|--------------|---------|---------------|----|-----|
| AACES06 | M6 x 40 Ø10  | 60,367  | 40            | 50 | 600 |
| AACES08 | M8 x 50 Ø14  | 92,210  | 50            | 50 | 300 |
| AACES10 | M10 x 60 Ø16 | 137,327 | 60            | 50 | 200 |
| AACES12 | M12 x 80 Ø20 | 275,433 | 80            | 25 | 100 |

AC-ES

Projecting bolt



02 Technical info  
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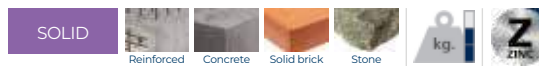
| CODE    | SIZE         | €/100   | APERTURE HOOK |    |     |
|---------|--------------|---------|---------------|----|-----|
| AACGA06 | M6 x 40 Ø10  | 97,920  | 10            | 50 | 600 |
| AACGA08 | M8 x 50 Ø14  | 136,353 | 11            | 50 | 300 |
| AACGA10 | M10 x 60 Ø16 | 206,617 | 14            | 50 | 100 |
| AACGA12 | M12 x 80 Ø20 | 358,040 | 18            | 25 | 50  |

AC-GA

Hook bolt



02 Technical info  
P. 394



| CODE    | SIZE         | €/100   | EYE BOLT Ø |    |     |
|---------|--------------|---------|------------|----|-----|
| AACAR06 | M6 x 40 Ø10  | 94,547  | 10         | 50 | 600 |
| AACAR08 | M8 x 50 Ø14  | 127,213 | 12         | 50 | 300 |
| AACAR10 | M10 x 60 Ø16 | 195,053 | 14         | 50 | 200 |
| AACAR12 | M12 x 80 Ø20 | 327,583 | 17         | 25 | 100 |

AC-AR

Eye bolt



# ZA

Anchor for medium-heavy loads in hollow and solid elements

## ZA-CA

Shield



02 Technical info P. 392

SOLID



| CODE    | SIZE          | €/100   | SHIELD LENGHT |     |       |
|---------|---------------|---------|---------------|-----|-------|
| AZAMC06 | M6 x 48 Ø12   | 120,540 | 48            | 100 | 1.200 |
| AZAMC08 | M8 x 50 Ø14   | 148,573 | 50            | 100 | 600   |
| AZAMC10 | M10 x 58 Ø16  | 191,263 | 58            | 50  | 300   |
| AZAMC12 | M12 x 72 Ø20  | 306,780 | 72            | 25  | 300   |
| AZAMC16 | M16 x 107 Ø25 | 630,130 | 107           | 25  | 150   |

## ZA-TO

Loose bolt



02 Technical info P. 392

SOLID



| CODE    | SIZE          | €/100   | SHIELD LENGHT |     |     |
|---------|---------------|---------|---------------|-----|-----|
| AZAMT06 | M6 x 50 Ø12   | 144,793 | 50            | 100 | 600 |
| AZAMT08 | M8 x 60 Ø14   | 183,717 | 60            | 100 | 400 |
| AZAMT10 | M10 x 80 Ø16  | 261,870 | 80            | 50  | 200 |
| AZAMT12 | M12 x 100 Ø20 | 433,747 | 100           | 25  | 100 |
| AZAMT16 | M16 x 140 Ø25 | 964,393 | 140           | 25  | 50  |

## ZA-TL

Long loose bolt



02 Technical info P. 392

SOLID



| CODE    | SIZE          | €/100   | SCREW SIZE |     |     |
|---------|---------------|---------|------------|-----|-----|
| ZT06L10 | M6 x 60 Ø12   | 183,520 | 60         | 100 | 600 |
| ZT06L30 | M6 x 80 Ø12   | 201,137 | 80         | 100 | 600 |
| ZT08L15 | M8 x 70 Ø14   | 249,383 | 70         | 100 | 400 |
| ZT08L35 | M8 x 90 Ø14   | 259,020 | 90         | 100 | 400 |
| ZT08L45 | M8 x 100 Ø14  | 281,273 | 100        | 100 | 300 |
| ZT10L10 | M10 x 70 Ø16  | 397,990 | 70         | 50  | 200 |
| ZT10L30 | M10 x 90 Ø16  | 399,407 | 90         | 50  | 200 |
| ZT10L50 | M10 x 110 Ø16 | 383,050 | 110        | 50  | 200 |
| ZT10L80 | M10 x 140 Ø16 | 445,930 | 140        | 50  | 150 |
| ZT12L15 | M12 x 90 Ø20  | 603,283 | 90         | 25  | 100 |
| ZT12L45 | M12 x 120 Ø20 | 621,423 | 120        | 25  | 50  |
| ZT12L65 | M12 x 140 Ø20 | 680,453 | 140        | 25  | 100 |

## ZA-PR

Long loose bolt with pipe



02 Technical info P. 392

SOLID



| CODE    | SIZE          | €/100   | PIPE LENGTH |     |     |
|---------|---------------|---------|-------------|-----|-----|
| ZP06C40 | M6 x 90 Ø12   | 383,367 | 40          | 100 | 400 |
| ZP08C15 | M8 x 70 Ø14   | 387,390 | 15          | 100 | 200 |
| ZP08C45 | M8 x 100 Ø14  | 448,197 | 45          | 100 | 300 |
| ZP10C50 | M10 x 110 Ø16 | 628,180 | 50          | 50  | 100 |
| ZP10C80 | M10 x 140 Ø16 | 744,910 | 80          | 50  | 100 |
| ZP12C15 | M12 x 90 Ø20  | 798,323 | 15          | 25  | 100 |
| ZP12C65 | M12 x 140 Ø20 | 972,383 | 65          | 25  | 50  |

## ZA-ES

Projecting bolt



02 Technical info P. 392

SOLID



| CODE    | SIZE          | €/100     | SCREW SIZE |     |     |
|---------|---------------|-----------|------------|-----|-----|
| AZAME06 | M6 x 60 Ø12   | 162,730   | 60         | 100 | 600 |
| AZAME08 | M8 x 70 Ø14   | 214,083   | 70         | 100 | 400 |
| AZAME10 | M10 x 100 Ø16 | 295,420   | 100        | 50  | 200 |
| AZAME12 | M12 x 120 Ø20 | 499,360   | 120        | 25  | 100 |
| AZAME16 | M16 x 140 Ø25 | 1.097,943 | 140        | 25  | 50  |

Anchor for medium-heavy loads in hollow and solid elements

ZA

02  
P. 393  
Technical info

SOLID

| CODE    | SIZE         | €/100   | APERTURE HOOK |    |     |
|---------|--------------|---------|---------------|----|-----|
| AZAMG06 | M6 x 45 Ø12  | 166,197 | 10            | 50 | 600 |
| AZAMG08 | M8 x 50 Ø14  | 234,390 | 13            | 50 | 300 |
| AZAMG10 | M10 x 56 Ø16 | 319,170 | 14            | 25 | 150 |
| AZAMG12 | M12 x 70 Ø20 | 520,800 | 22            | 25 | 100 |

ZA-GA

Hook bolt



02  
P. 393  
Technical info

SOLID

| CODE      | SIZE         | €/100   | APERTURE HOOK |    |     |
|-----------|--------------|---------|---------------|----|-----|
| AZAMGF006 | M6 x 45 Ø12  | 240,433 | 10            | 50 | 600 |
| AZAMGF008 | M8 x 50 Ø14  | 349,217 | 11            | 50 | 300 |
| AZAMGF010 | M10 x 56 Ø16 | 464,837 | 14            | 25 | 150 |
| AZAMGF012 | M12 x 70 Ø20 | 754,490 | 18            | 25 | 75  |

ZA-GF

Forged hook bolt



02  
P. 393  
Technical info

SOLID

| CODE    | SIZE         | €/100   | EYE BOLT Ø |    |     |
|---------|--------------|---------|------------|----|-----|
| AZAMA06 | M6 x 45 Ø12  | 166,197 | 10         | 50 | 600 |
| AZAMA08 | M8 x 50 Ø14  | 234,390 | 13         | 50 | 300 |
| AZAMA10 | M10 x 56 Ø16 | 319,170 | 14         | 25 | 150 |
| AZAMA12 | M12 x 70 Ø20 | 520,800 | 22         | 25 | 100 |

ZA-AR

Eye bolt



02  
P. 393  
Technical info

SOLID

| CODE      | SIZE         | €/100   | EYE BOLT Ø |    |     |
|-----------|--------------|---------|------------|----|-----|
| AZAMAF006 | M6 x 45 Ø12  | 239,233 | 10         | 50 | 600 |
| AZAMAF008 | M8 x 50 Ø14  | 322,713 | 12         | 50 | 300 |
| AZAMAF010 | M10 x 56 Ø16 | 429,127 | 14         | 25 | 150 |
| AZAMAF012 | M12 x 70 Ø20 | 686,527 | 17         | 25 | 100 |

ZA-AF

Forged eye bolt





# HI Anti-spin sleeve anchor, for heavy-duty loads

## HI-CA

Shield



02 Technical info P. 394

**SOLID** Reinforced concrete Concrete Solid brick Stone kg. **Z** ZINC

| CODE      | SIZE         | €/100          | SHIELD LENGHT |     |       |
|-----------|--------------|----------------|---------------|-----|-------|
| AHICA0645 | M6 x 45 Ø12  | <b>72,403</b>  | 45            | 100 | 1.200 |
| AHICA0855 | M8 x 55 Ø14  | <b>80,700</b>  | 55            | 50  | 600   |
| AHICA1065 | M10 x 65 Ø16 | <b>103,193</b> | 65            | 50  | 300   |
| AHICA1275 | M12 x 75 Ø20 | <b>138,500</b> | 75            | 25  | 150   |
| AHICA1690 | M16 x 90 Ø24 | <b>229,313</b> | 90            | 10  | 60    |

## HI-CI

A2 Stainless steel shield



02 Technical info P. 394

**STAINLESS STEEL** Reinforced concrete Concrete Solid brick Stone kg. **A2 INOX**

| CODE      | SIZE         | €/100            | SHIELD LENGHT |     |     |
|-----------|--------------|------------------|---------------|-----|-----|
| AHICI0645 | M6 x 45 Ø12  | <b>587,350</b>   | 45            | 100 | 600 |
| AHICI0855 | M8 x 55 Ø14  | <b>824,913</b>   | 55            | 50  | 600 |
| AHICI1065 | M10 x 65 Ø16 | <b>1.101,323</b> | 65            | 50  | 300 |

## HI-TO

Loose bolt 8.8



02 Technical info P. 394

**SOLID** Reinforced concrete Concrete Solid brick Stone kg. **Z** ZINC

| CODE      | SIZE         | €/100          | SHIELD LENGHT |     |     |
|-----------|--------------|----------------|---------------|-----|-----|
| AHITO0645 | M6 x 45 Ø12  | <b>90,657</b>  | 45            | 100 | 600 |
| AHITO0855 | M8 x 55 Ø14  | <b>128,233</b> | 55            | 50  | 300 |
| AHITO1065 | M10 x 65 Ø16 | <b>181,217</b> | 65            | 50  | 200 |
| AHITO1275 | M12 x 75 Ø20 | <b>275,880</b> | 75            | 25  | 100 |
| AHITO1690 | M16 x 90 Ø24 | <b>511,437</b> | 90            | 10  | 40  |

## HI-GA

Hook bolt



02 Technical info P. 394

**SOLID** Reinforced concrete Concrete Solid brick Stone kg. **Z** ZINC

| CODE      | SIZE         | €/100          | APERTURE HOOK |     |     |
|-----------|--------------|----------------|---------------|-----|-----|
| AHIGA0645 | M6 x 45 Ø12  | <b>146,073</b> | 10            | 100 | 400 |
| AHIGA0855 | M8 x 55 Ø14  | <b>213,540</b> | 11            | 50  | 300 |
| AHIGA1065 | M10 x 65 Ø16 | <b>316,603</b> | 14            | 50  | 100 |
| AHIGA1275 | M12 x 75 Ø20 | <b>491,657</b> | 18            | 25  | 75  |
| AHIGA1690 | M16 x 90 Ø24 | <b>957,563</b> | 19            | 10  | 30  |

## HI-AR

Eye bolt



02 Technical info P. 395

**SOLID** Reinforced concrete Concrete Solid brick Stone kg. **Z** ZINC

| CODE      | SIZE         | €/100          | EYE BOLT Ø |     |     |
|-----------|--------------|----------------|------------|-----|-----|
| AHIAR0645 | M6 x 45 Ø12  | <b>143,383</b> | 10         | 100 | 400 |
| AHIAR0855 | M8 x 55 Ø14  | <b>186,313</b> | 12         | 50  | 300 |
| AHIAR1065 | M10 x 65 Ø16 | <b>250,707</b> | 14         | 50  | 200 |
| AHIAR1275 | M12 x 75 Ø20 | <b>410,537</b> | 17         | 25  | 75  |
| AHIAR1690 | M16 x 90 Ø24 | <b>895,050</b> | 23         | 10  | 30  |

Metal anchor for fixing window and door frames

EPS

Technical info  
P. 395

MULTI-MATERIAL



| CODE    | DRILL Ø X LENGTH | €/100          |     | THICKNESS MAX. FIXTURE |     |     |
|---------|------------------|----------------|-----|------------------------|-----|-----|
| EPS6072 | M6 x 72 Ø10      | <b>58,420</b>  | PZ3 | 40                     | 100 | 600 |
| EPS6092 | M6 x 92 Ø10      | <b>70,677</b>  | PZ3 | 60                     | 100 | 600 |
| EPS6112 | M6 x 112 Ø10     | <b>77,797</b>  | PZ3 | 80                     | 100 | 200 |
| EPS6132 | M6 x 132 Ø10     | <b>87,387</b>  | PZ3 | 100                    | 100 | 200 |
| EPS6152 | M6 x 152 Ø10     | <b>99,070</b>  | PZ3 | 120                    | 100 | 400 |
| EPS6182 | M6 x 182 Ø10     | <b>125,863</b> | PZ3 | 150                    | 100 | 300 |



Express nail for batten fixings to concrete floors

TRA

Technical info  
P. 395

SOLID



| CODE    | DRILL Ø X LENGTH | €/100         | THICKNESS MAX. FIXTURE |     |       |
|---------|------------------|---------------|------------------------|-----|-------|
| TRA6050 | 6 x 50 Ø6        | <b>15,840</b> | 20                     | 200 | 2.400 |
| TRA6060 | 6 x 60 Ø6        | <b>17,057</b> | 30                     | 200 | 1.200 |
| TRA6080 | 6 x 80 Ø6        | <b>18,960</b> | 50                     | 200 | 1.200 |
| TRA8070 | 8 x 70 Ø8        | <b>25,317</b> | 30                     | 100 | 1.200 |
| TRA8090 | 8 x 90 Ø8        | <b>29,913</b> | 50                     | 100 | 600   |
| TRA8110 | 8 x 110 Ø8       | <b>34,667</b> | 70                     | 100 | 600   |
| TRA8130 | 8 x 130 Ø8       | <b>45,553</b> | 90                     | 100 | 600   |
| TRA8150 | 8 x 150 Ø8       | <b>51,070</b> | 110                    | 100 | 600   |



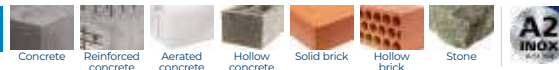
Blister

| CODE      | SIZE       | €/BAG        | PCS | BAGS |
|-----------|------------|--------------|-----|------|
| BZTRA6050 | 6 x 50 Ø6  | <b>3,071</b> | 10  | 15   |
| BZTRA6060 | 6 x 60 Ø6  | <b>3,071</b> | 10  | 15   |
| BZTRA6080 | 6 x 80 Ø6  | <b>3,071</b> | 10  | 15   |
| BZTRA8070 | 8 x 70 Ø8  | <b>3,071</b> | 10  | 15   |
| BZTRA8090 | 8 x 90 Ø8  | <b>4,146</b> | 10  | 15   |
| BZTRA8110 | 8 x 110 Ø8 | <b>4,146</b> | 10  | 12   |
| BZTRA8130 | 8 x 130 Ø8 | <b>4,146</b> | 8   | 12   |
| BZTRA8150 | 8 x 150 Ø8 | <b>4,146</b> | 8   | 12   |

Screw anchor for ventilated façades

AV

STAINLESS STEEL



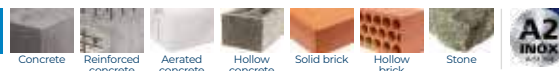
| CODE     | SIZE          | €/100          |     |     |
|----------|---------------|----------------|-----|-----|
| AVR08120 | M8 x 120 Ø8   | <b>295,500</b> | 100 | 600 |
| AVR08150 | M8 x 150 Ø8   | <b>327,720</b> | 100 | 600 |
| AVR10120 | M10 x 120 Ø10 | <b>369,527</b> | 100 | 400 |
| AVR10150 | M10 x 150 Ø10 | <b>422,883</b> | 100 | 200 |
| AVR10180 | M10 x 180 Ø10 | <b>470,500</b> | 100 | 200 |

AVR

Threaded



STAINLESS STEEL



| CODE     | SIZE         | €/100          |     |     |
|----------|--------------|----------------|-----|-----|
| AVC08120 | 8 x 120 Ø8   | <b>318,267</b> | 100 | 400 |
| AVC08150 | 8 x 150 Ø8   | <b>356,270</b> | 100 | -   |
| AVC10120 | 10 x 120 Ø10 | <b>407,423</b> | 100 | 400 |
| AVC10150 | 10 x 150 Ø10 | <b>466,657</b> | 100 | 200 |
| AVC10180 | 10 x 180 Ø10 | <b>526,837</b> | 100 | 200 |

AVC

Corrugated



# ANFA

Scaffolding anchoring

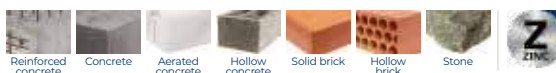
## AN-23

Eye diameter 23 mm



Technical info  
P. 398

MULTI-MATERIAL



| CODE     | SIZE             | €/100   | Ø PLUG         | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | EYE BOLT Ø |    |     |
|----------|------------------|---------|----------------|-----------------|-------------------|------------|----|-----|
| ANFA2309 | 12 x 90 Ø14-Ø16  | 169,040 | TCSO Ø14 o Ø16 | 90              | 100               | 23         | 20 | 120 |
| ANFA2312 | 12 x 120 Ø14-Ø16 | 192,590 | TCSO Ø14 o Ø16 | 120             | 130               | 23         | 20 | 80  |
| ANFA2316 | 12 x 160 Ø14-Ø16 | 233,423 | TCSO Ø14 o Ø16 | 160             | 170               | 23         | 20 | 60  |
| ANFA2319 | 12 x 190 Ø14-Ø16 | 251,697 | TCSO Ø14 o Ø16 | 190             | 200               | 23         | 20 | 60  |
| ANFA2323 | 12 x 230 Ø14-Ø16 | 289,907 | TCSO Ø14 o Ø16 | 230             | 240               | 23         | 20 | 40  |
| ANFA2330 | 12 x 300 Ø14-Ø16 | 397,583 | TCSO Ø14 o Ø16 | 300             | 310               | 23         | 10 | 20  |
| ANFA2335 | 12 x 350 Ø14-Ø16 | 432,783 | TCSO Ø14 o Ø16 | 350             | 360               | 23         | 10 | -   |

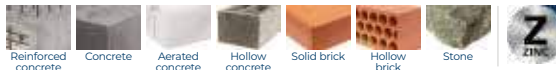
## AN-51

Eye diameter 51 mm



Technical info  
P. 399

MULTI-MATERIAL



| CODE     | SIZE             | €/100   | Ø PLUG         | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | EYE BOLT Ø |    |    |
|----------|------------------|---------|----------------|-----------------|-------------------|------------|----|----|
| ANFA5114 | 12 x 140 Ø14-Ø16 | 300,020 | TCSO Ø14 o Ø16 | 140             | 150               | 51         | 20 | 60 |
| ANFA5116 | 12 x 160 Ø14-Ø16 | 327,520 | TCSO Ø14 o Ø16 | 160             | 170               | 51         | 20 | 40 |
| ANFA5120 | 12 x 200 Ø14-Ø16 | 424,190 | TCSO Ø14 o Ø16 | 200             | 210               | 51         | 20 | 40 |
| ANFA5124 | 12 x 240 Ø14-Ø16 | 467,280 | TCSO Ø14 o Ø16 | 240             | 250               | 51         | 20 | 40 |

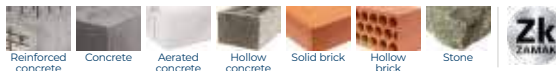
## AN-50 CT

Eye diameter 50 mm + zamak shield M10



Technical info  
P. 399

MULTI-MATERIAL



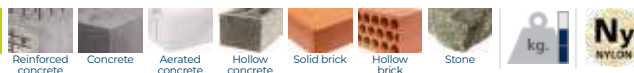
| CODE      | SIZE          | €/100   | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | EYE BOLT Ø |    |    |
|-----------|---------------|---------|-----------------|-------------------|------------|----|----|
| ANFAZ5021 | M10 x 210 Ø16 | 978,720 | 55              | 120               | 50         | 10 | 20 |

## TC-SO 2

Nylon plug, 2 wings



MULTI-MATERIAL



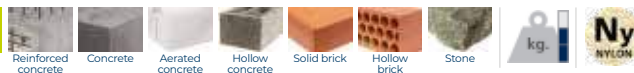
| CODE      | SIZE         | €/100  |    |     |
|-----------|--------------|--------|----|-----|
| TCSO14075 | 14 x 75 Ø14  | 27,132 | 20 | 240 |
| TCSO14100 | 14 x 100 Ø14 | 34,979 | 20 | 240 |

## TC-SO 8

Nylon plug, 8 wings



MULTI-MATERIAL



| CODE      | SIZE         | €/100   |    |     |
|-----------|--------------|---------|----|-----|
| TCSO14130 | 14 x 130 Ø14 | 56,140  | 20 | 240 |
| TCSO14160 | 14 x 160 Ø14 | 63,247  | 20 | 120 |
| TCSO16140 | 16 x 140 Ø16 | 123,877 | 20 | 120 |
| TCSO16160 | 16 x 160 Ø16 | 131,907 | 20 | 80  |
| TCSO16200 | 16 x 200 Ø16 | 136,193 | 20 | 60  |
| TCSO16240 | 16 x 240 Ø16 | 154,840 | 20 | 40  |

## AN-TA

Cap for wall plug holes



MULTI-MATERIAL



| CODE      | SIZE    | €/100  | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH |     |     |
|-----------|---------|--------|-----------------|-------------------|-----|-----|
| ANFATA37B | 13 x 37 | 21,853 | 33              | 130               | 100 | 600 |
| ANFATA70B | 13 x 70 | 26,327 | 33              | 180               | 100 | 300 |


























# CHEMICAL FIXINGS





# Selection table

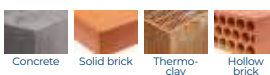
|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
| Universal Polyester   | Polyester PLUS  | Styrene free polyester PLUS   | Styrene free polyester PLUS. Stone  | Vinylester  | Styrene free vinylester   | Styrene free hybrid resin   | Styrene free hybrid resin. Winter   | Pure epoxy 1:1  | Pure epoxy 3:1  |
| <b>MO-PU</b>  | <b>MO-P+</b>  | <b>MO-PS+</b>   | <b>MO-PSP+</b>  | <b>MO-V</b>   | <b>MO-VS</b>  | <b>MO-H</b>   | <b>MO-HW</b>  | <b>MOPURE</b>   | <b>MOPUR3</b>   |


|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
|  Option 1 |   |   |   |   |   | • | • | • | • |
|  Option 7 | • | • | • | • | • |   |   |   |   |
|           |   |   |   |   | • | • |   | • | • |
|           |   |   | • | • | • | • | • |   |   |
|          |   |   |   |   |   |   |   |   | • |
|         |   |   |   |   |   | • | • | • |   |
|        |   |   |   |   |   | • | • |   | • |
|        |   |   |   |   |   |   |   | • |   |
|        | • | • | • | • | • | • | • | • | • |
|        | • | • | • | • | • | • | • | • | • |
|        |   |   |   |   |   | • | • |   | • |
|        |   |   | • | • | • | • | • |   |   |
|        | • | • | • | • | • | • | • | • | • |
|        |   |   |   |   |   | • | • | • | • |
|        |   |   |   |   |   | • | • | • | • |
|        | • | • | • | • | • | • | • | • | • |
|        | • | • | • | • | • | • | • | • | • |
|        | • | • | • | • | • | • | • | • | • |
|        | • | • | • | • | • | • | • | • | • |
|        | • | • | • | • | • | • | • | • | • |
|        | • | • | • | • | • | • | • | • | • |
|        |   |   |   |   |   |   | • |   |   |
|        | • | • | • | • | • | • |   | • | • |

Chemical fixings

MO

CHEMICAL



| CODE    | SIZE    | €/PC   |  |
|---------|---------|--------|--|
| MOPU300 | 300 ml. | 14,443 | 12   |
| MOPU410 | 410 ml. | 17,464 | 12   |



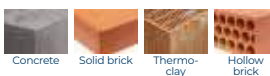
M8-M24


MO-PU

Universal polyester. Opt.7 ETA Assessed



CHEMICAL



| CODE   | SIZE    | €/PC   |  |
|--------|---------|--------|--|
| MOP300 | 300 ml. | 15,987 | 12   |
| MOP410 | 410 ml. | 18,887 | 12   |



M8-M24


MO-P+

Polyester PLUS. Opt.7 ETA Assessed



CHEMICAL



| CODE    | SIZE    | €/PC   |  |
|---------|---------|--------|--|
| MOPS300 | 300 ml. | 18,670 | 12   |
| MOPS410 | 410 ml. | 23,527 | 12   |

KIT MO-PS+

|           |         |        |   |
|-----------|---------|--------|---|
| MOPS300EP | 300 ml. | 28,759 | 1 |
|-----------|---------|--------|---|

- Content:
- Cartridge MOPS300 (300 ml) - x1
  - Nozzle MORCANU x2
  - Stud bolt MOES08110 (M8 x 110 Ø8) - x4
  - Plastic sleeve MOTN15085 (15 x 85) - x4

See video



Do you know for how long you can handle a chemical anchor once it has been applied?

A new formula to MO-PS+ makes the mortar change colour once the curing process begins, indicating that it can no longer be handled.



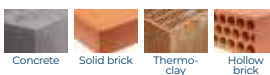
M8-M24


MO-PS+

Polyester PLUS styrene free with Working time indicator. Opt.7 ETA Assessed



CHEMICAL



| CODE     | SIZE    | €/PC   |  |
|----------|---------|--------|--|
| MOPSP300 | 300 ml. | 20,367 | 12   |
| MOPSP410 | 410 ml. | 25,667 | 12   |



M8-M24

MO-PSP+

Polyester PLUS styrene free stone color. Opt.7 ETA Assessed




# MO

## Chemical fixings

### MO-V

Vinylester.  
Opt.7 ETA Assessed



| CODE   | SIZE    | €/PC          |  |
|--------|---------|---------------|---|
| MOV300 | 300 ml. | <b>20,190</b> | 12  |
| MOV410 | 410 ml. | <b>24,470</b> | 12  |

CHEMICAL  




M8-M24

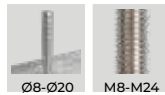
### MO-VS

Vinylester styrene  
free. Opt.7 ETA  
Assessed



| CODE    | SIZE    | €/PC          |  |
|---------|---------|---------------|---|
| MOV5300 | 300 ml. | <b>22,930</b> | 12  |
| MOV5410 | 410 ml. | <b>28,127</b> | 12  |

CHEMICAL  





Ø8-Ø20 M8-M24

### MO-H

Hybrid styrene free.  
Opt.1 ETA Assessed



| CODE   | SIZE    | €/PC          |  |
|--------|---------|---------------|---|
| MOH300 | 300 ml. | <b>27,520</b> | 12  |
| MOH410 | 410 ml. | <b>32,013</b> | 12  |

CHEMICAL       











Ø8-Ø25 Ø8-Ø32 M8-M30

### MO-HW

Hybrid WINTER  
version for low  
temperatures.  
Opt.1 ETA Assessed



| CODE    | SIZE    | €/PC          |  |
|---------|---------|---------------|---|
| MOHW300 | 300 ml. | <b>28,893</b> | 12  |
| MOHW410 | 410 ml. | <b>33,910</b> | 12  |

CHEMICAL       




Ø8-Ø32 M8-M30

Chemical fixings

MO

CHEMICAL



| CODE      | SIZE    | €/PC   |  |
|-----------|---------|--------|--|
| MOPURE600 | 600 ml. | 79,380 | 12   |

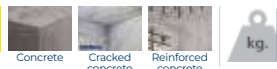



MOPURE

Pure Epoxy 1:1  
Opt.1 ETA Assessed



CHEMICAL



| CODE       | SIZE    | €/PC   |  |
|------------|---------|--------|--|
| MOPUR30385 | 385 ml. | 57,477 | 12   |
| MOPUR30585 | 585 ml. | 76,973 | 12   |



MOPUR3

Pure Epoxy 3:1  
Opt.1 ETA Assessed



# INDEXmor CLOUD

## ONLINE SOFTWARE TO CALCULATE CHEMICAL MORTARS

The software makes it possible to calculate online how many cartridges will need to be used depending on the parameters entered, both in brick and in concrete (measuring rod and corrugated bar).

**Parameters in Concrete:**

- Selection of element to install (Measuring rod or corrugated bar).
- Number of holes to fill.
- Selection of metrics (M8 - M32).
- Depth of hole.
- Use of the cartridge (optimal, good, poor).

**Parameters in Brick:**

- Number of holes to fill.
- Selection of metrics (M8 - M12).
- Possibility to include threaded sieve in the calculation.

**Benefits:**

- Software 100% online.
- Ease of use. Responsive design.
- Multilingual: Available in Spanish, English, French, German and Portuguese.





# MO-PIS

Guns for chemical fixings

## MO-PIS

Guns



MOPISTO



MOPISPR



MOPISSI




MOPISPUR6



MOPISNEU





MOPISP3

| CODE       | SIZE   | €/PC             |  |
|------------|--|------------------|---|
| MOPISTO    | Manual / Manuel 410 ml.                            | <b>44,793</b>    | 1   |
| MOPISPR    | Profesional / Professional / Professionnel 410 ml. | <b>110,621</b>   | 1   |
| MOPISSI    | Silicona / Silicone/ 300 ml.                       | <b>25,628</b>    | 1   |
| MOPISPUR6  | MOPURE600 - 600 ml.                                | <b>60,366</b>    | 1   |
| MOPISNEU   | Neumática / Pneumatic / Pneumatique                | <b>1.464,865</b> | 1   |
| MOPISP3385 | MOPUR3 - 385 ml.                                   | <b>122,129</b>   | 1   |
| MOPISP3585 | MOPUR3 - 585 ml.                                   | <b>138,694</b>   | 1   |

## MO-TN

Plastic Mesh Sleeves



| CODE      | SIZE     | €/100         | MIN. ORDER QTY. |  |  |
|-----------|----------|---------------|-----------------|---|---|
| MOTN12050 | 12 x 50  | <b>43,457</b> | 24              | 12  | 2.256   |
| MOTN12080 | 12 x 80  | <b>38,593</b> | 24              | 12  | 2.256   |
| MOTN15085 | 15 x 85  | <b>38,213</b> | 24              | 12  | 1.500   |
| MOTN15130 | 15 x 130 | <b>45,073</b> | 24              | 12  | 1.008   |
| MOTN20085 | 20 x 85  | <b>43,487</b> | 24              | 12  | 1.008   |

 Self-service

| CODE        | SIZE    | €/BAG        | PCS | BAGS |
|-------------|---------|--------------|-----|------|
| LSMOTN12050 | 12 x 50 | <b>2,792</b> | 4   | 7    |
| LSMOTN15085 | 15 x 85 | <b>2,780</b> | 4   | 6    |
| LSMOTN20085 | 20 x 85 | <b>2,455</b> | 2   | 6    |

## MO-TR

Internally Threaded Sockets



| CODE    | SIZE         | €/100          |  |  |
|---------|--------------|----------------|---|---|
| MOTR008 | M8 x 80 Ø12  | <b>213,387</b> | 12  | 540   |
| MOTR010 | M10 x 80 Ø14 | <b>285,857</b> | 12  | 288   |
| MOTR012 | M12 x 80 Ø16 | <b>346,110</b> | 12  | 288   |

## MO-AC

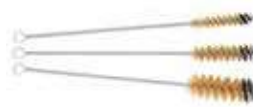
Mixer nozzles and more



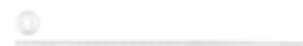
MOBOMBA  
Blow pump



MORCAPU  
Mixer nozzle (385-585-600 ml)



MORCEPKIT  
3 brushes kit





MO-TL  
Long cut-out sieve for fixing on tile roof + scraper



MORCANU  
Mixer nozzle (300-410 ml)





MO-PC  
Nozzle extender for chemical fixings

| CODE                 | SIZE   | €/PC           |  |  |
|----------------------|--|----------------|---|---|
| MOBOMBA              | Bomba Sopladora / Blow pump / Pompe soufflante                 | <b>15,920</b>  | 1   | 1   |
| MORCANU              | 170 ml. - 300 ml. - 410 ml.                                    | <b>1,033</b>   | 12  | 1.008   |
| MORCAPU              | Cánula/ Nozzle/ Canule/ Cànula (385-585-600 ml)                | <b>1,583</b>   | 12  | 24  |
| MORCEPKIT            | Kit Cepillo / Brush / Écouvillon (1 x Ø14 - 1 x Ø20 - 1 x Ø27) | <b>77,063</b>  | 1   | 1   |
| MOTL16330 <b>NEW</b> | 16 x 330   | <b>312,333</b> | -   | 10  |
| MOPC185 <b>NEW</b>   | 185 mm   | <b>4,587</b>   | -   | 1   |

## MO-ES

Stud bolt



| CODE      | SIZE          | €/100          |  |  |
|-----------|---------------|----------------|---|---|
| MOES06070 | M6 x 70 Ø6    | <b>59,320</b>  | 12  | 540   |
| MOES08110 | M8 x 110 Ø8   | <b>100,393</b> | 12  | 288   |
| MOES10115 | M10 x 115 Ø10 | <b>133,340</b> | 12  | 144   |
| MOES12110 | M12 x 110 Ø12 | <b>177,657</b> | 12  | 144   |

 Self-service

| CODE        | SIZE          | €/BAG        | PCS | BAGS |
|-------------|---------------|--------------|-----|------|
| LSMOES06070 | M6 x 70 Ø6    | <b>4,305</b> | 4   | 10   |
| LSMOES08110 | M8 x 110 Ø8   | <b>6,143</b> | 4   | 7    |
| LSMOES10115 | M10 x 115 Ø10 | <b>7,578</b> | 4   | 6    |
| LSMOES12110 | M12 x 110 Ø12 | <b>9,518</b> | 4   | 6    |

## MO-TM

Wire Mesh Sleeves



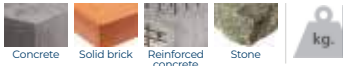
| CODE      | SIZE          | €/100            |  |
|-----------|---------------|------------------|---|
| MOTM12100 | 12 x 1000 Ø11 | <b>1.857,163</b> | 10  |
| MOTM16100 | 16 x 1000 Ø14 | <b>2.103,127</b> | 10  |
| MOTM22100 | 22 x 1000 Ø21 | <b>2.470,290</b> | 5   |



Epoxy resin, quartz and a phial of hardener. Opt.8 ETA Assessed

# CA-QU

 Technical info  
P. 399

CHEMICAL



| CODE      | SIZE         | €/100            |  |  |
|-----------|--------------|------------------|---|---|
| CAQU008   | 8 x 80 Ø10   | <b>207,147</b>   | 10  | 500   |
| CAQU010   | 10 x 90 Ø12  | <b>211,907</b>   | 10  | 500   |
| CAQU012   | 12 x 110 Ø14 | <b>220,943</b>   | 10  | 200   |
| CAQU016   | 16 x 125 Ø18 | <b>245,643</b>   | 10  | 200   |
| CAQU020   | 20 x 170 Ø25 | <b>499,807</b>   | 6   | 60  |
| CAQU024   | 24 x 210 Ø28 | <b>585,190</b>   | 6   | 60  |
| • CAQU030 | 30 x 280 Ø35 | <b>1.043,510</b> | 6   | 30  |

• Non-assessed sizes

## CA-QU

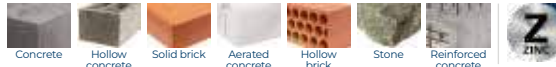
Epoxy resin, quartz and a phial of hardener. Option 8 ETA Assessed





Stud bolt for chemical anchor, with nut and washer

# EQ

CHEMICAL



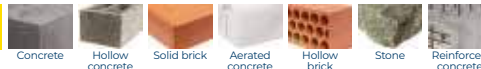
| CODE      | SIZE      | €/100            |  |  |
|-----------|-----------|------------------|---|--|
| EQAC08110 | M8 x 110  | <b>87,917</b>    | 10  | 240  |
| EQAC10130 | M10 x 130 | <b>141,233</b>   | 10  | 120  |
| EQAC10190 | M10 x 190 | <b>221,187</b>   | 10  | 30   |
| EQAC12160 | M12 x 160 | <b>225,140</b>   | 10  | 120  |
| EQAC12220 | M12 x 220 | <b>341,143</b>   | 10  | 30   |
| EQAC16190 | M16 x 190 | <b>426,757</b>   | 10  | 40   |
| EQAC16250 | M16 x 250 | <b>615,507</b>   | 10  | 30   |
| EQAC20260 | M20 x 260 | <b>922,920</b>   | 6   | 12   |
| EQAC20350 | M20 x 350 | <b>1.353,510</b> | 6   | -  |
| EQAC24300 | M24 x 300 | <b>1.402,707</b> | 6   | 12   |
| EQAC24380 | M24 x 380 | <b>2.238,247</b> | 6   | -  |
| EQAC30330 | M30 x 330 | <b>2.914,197</b> | 6   | 12   |



## EQ-AC

Zinc-plated



CHEMICAL



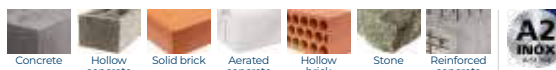
| CODE      | SIZE      | €/100            |  |  |
|-----------|-----------|------------------|---|--|
| EQ8808110 | M8 x 110  | <b>96,627</b>    | 10  | 240  |
| EQ8810130 | M10 x 130 | <b>159,383</b>   | 10  | 120  |
| EQ8812160 | M12 x 160 | <b>275,653</b>   | 10  | 60   |
| EQ8816190 | M16 x 190 | <b>473,450</b>   | 6   | 24   |
| EQ8820260 | M20 x 260 | <b>1.023,243</b> | 6   | 24   |
| EQ8824300 | M24 x 300 | <b>1.519,957</b> | 6   | 12   |



## EQ-8.8

Zinc-plated 8.8



CHEMICAL



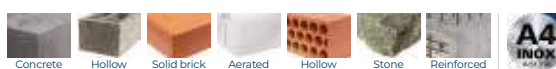
| CODE      | SIZE      | €/100             |  |  |
|-----------|-----------|-------------------|---|--|
| EQA208110 | M8 x 110  | <b>341,587</b>    | 10  | 240  |
| EQA210130 | M10 x 130 | <b>564,510</b>    | 10  | 120  |
| EQA212160 | M12 x 160 | <b>935,570</b>    | 10  | 120  |
| EQA216190 | M16 x 190 | <b>1.938,470</b>  | 10  | 40   |
| EQA220260 | M20 x 260 | <b>3.704,930</b>  | 6   | 12   |
| EQA224300 | M24 x 300 | <b>5.920,680</b>  | 6   | 12   |
| EQA230330 | M30 x 330 | <b>10.802,067</b> | 6   | 12   |



## EQ-A2

A2 Stainless steel



CHEMICAL



| CODE      | SIZE      | €/100             |  |  |
|-----------|-----------|-------------------|---|--|
| EQA408110 | M8 x 110  | <b>340,480</b>    | 10  | 240  |
| EQA410130 | M10 x 130 | <b>618,447</b>    | 10  | 120  |
| EQA412160 | M12 x 160 | <b>1.063,837</b>  | 10  | 120  |
| EQA416190 | M16 x 190 | <b>2.193,730</b>  | 10  | 40   |
| EQA420260 | M20 x 260 | <b>5.074,133</b>  | 6   | 12   |
| EQA424300 | M24 x 300 | <b>8.363,180</b>  | 6   | 12   |
| EQA430330 | M30 x 330 | <b>14.752,700</b> | 6   | 12   |

## EQ-A4

A4 Stainless steel



# Selection table



|   | MSPRB290                  | MSPRG290                  | MSPRM290                  | MSPRN290                  | MSTR290                   | MSSF290                   |
|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
|    | •                         | •                         | •                         | •                         |                           |                           |
|    | •                         | •                         | •                         | •                         |                           | •                         |
|    | •                         | •                         | •                         | •                         | •                         | •                         |
|    | •                         | •                         | •                         | •                         | •                         | •                         |
|   | •                         | •                         | •                         | •                         |                           |                           |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | 300 %                     | 300 %                     | 300 %                     | 300 %                     | 250 %                     | 200 %                     |
|  | 150 kg/10 cm <sup>2</sup> | 150 kg/10 cm <sup>2</sup> | 150 kg/10 cm <sup>2</sup> | 150 kg/10 cm <sup>2</sup> | 140 kg/10 cm <sup>2</sup> | 430 kg/10 cm <sup>2</sup> |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  | •                         | •                         | •                         | •                         | •                         | •                         |
|  |                           |                           |                           |                           | •                         |                           |
|  |                           |                           |                           |                           |                           | •                         |



Adhesives Hybrid MS Polymer

MS



| CODE     | SIZE             | COLOR | €/PC   |    |
|----------|------------------|-------|--------|----|
| MSPRB290 | 290 ml. (Blanco) | WHITE | 10,477 | 12 |
| MSPRG290 | 290 ml. (Gris)   | GREY  | 10,477 | 12 |
| MSPRM290 | 290 ml. (Marrón) | BROWN | 10,477 | 12 |
| MSPRN290 | 290 ml. (Negro)  | BLACK | 10,477 | 12 |

APPLICATIONS

- Affixing and sealing in construction: shelves, roof fixings, gutters, decks, frame joints or structures subjected to vibrations.
- Filling cracks.
- Sealing of expansion joints, cisterns, containers and other aluminium elements.
- Product certified for use in the food processing industry (ISEGA Certificate).
- Adhesion to all types of materials (concrete, wood, metal, cork, aluminium, PVC, copper, brick, stone, porcelain...). Not recommended for Polyethylene (PE), Polypropylene (PP) and Polytetrafluoroethylene (PTFE).
- If the base material is unknown, tests must be done beforehand to ensure the product functions correctly.

MS-PR

Adhesive MS Professional



| CODE    | SIZE                   | COLOR       | €/PC   |    |
|---------|------------------------|-------------|--------|----|
| MSTR290 | 290 ml. (Transparente) | TRANSPARENT | 14,829 | 12 |

APPLICATIONS

- Colourless. Suitable for affixing glass, panes, acrylic, PVC, porcelain, ceramic and other transparent elements, outdoors or indoors.
- Attaching of materials with a transparent or visible join.
- Can be applied to damp surfaces.
- Adhesion to all types of materials (concrete, wood, metal, cork, aluminium, PVC, copper, brick, stone, porcelain...). Not recommended for Polyethylene (PE), Polypropylene (PP) and Polytetrafluoroethylene (PTFE).
- If the base material is unknown, tests must be done beforehand to ensure the product functions correctly.
- Suitable for assembling, sealing and affixing.

MS-TR

Adhesive MS Transparent



| CODE    | SIZE             | COLOR | €/PC   |    |
|---------|------------------|-------|--------|----|
| MSSF290 | 290 ml. (Blanco) | WHITE | 12,571 | 12 |

APPLICATIONS

- Especially recommended for affixing and connecting heavy elements quickly and without additional fixings. Triples the holding capacity of other adhesives.
- Suitable for indoor and outdoor use. UVresistant.
- Adhesion to all types of materials (concrete, wood, metal, cork, aluminium, PVC, copper, brick, stone, porcelain...). Not recommended for Polyethylene (PE), Polypropylene (PP) and Polytetrafluoroethylene (PTFE).
- If the base material is unknown, tests must be done beforehand to ensure the product functions correctly.

MS-SF

Adhesive MS Superfast High Tack





# Selection table

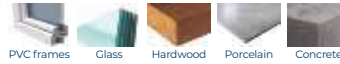
|  | SI-PR    |          |          |          |          | SI-PRS    |           | SI-UNI    |           |           |           |           | SI-UNS    |           | SE-ACR    |           |
|--|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|  | SIPRB280 | SIPRG280 | SIPRM280 | SIPRN280 | SIPRT280 | SIPRSB280 | SIPRST280 | SIUNIB280 | SIUNIG280 | SIUNIM280 | SIUNIN280 | SIUNIT280 | SIUNSB280 | SIUNST280 | SEACRB280 | SEACRG280 |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         |           |           |           |           |           |           |           | •         | •         |
|  |          |          |          |          |          |           |           | •         | •         | •         | •         | •         | •         |           |           |           |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  |          |          |          |          |          |           |           |           |           |           |           |           |           |           | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         |           |           |           |           |           |           |           | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         | •         |
|  | •        | •        | •        | •        | •        | •         | •         | •         | •         | •         | •         | •         | •         | •         |           |           |
|  |          |          |          |          | •        |           | •         |           |           |           |           | •         |           | •         |           |           |
|  |          |          |          |          |          |           | •         | •         |           |           |           | •         | •         |           |           |           |
|  |          |          |          |          |          |           | •         | •         |           |           |           | •         | •         |           |           |           |
|  | •        | •        | •        | •        | •        |           |           |           |           |           |           |           |           |           |           |           |
|  | •        | •        | •        | •        | •        | •         | •         |           |           |           |           |           |           |           |           |           |
|  |          |          |          |          |          |           |           |           |           |           |           |           |           |           | •         | •         |
|  |          |          |          |          |          |           |           |           |           |           |           |           |           |           | •         | •         |



Silicones

SI

CHEMICAL



| CODE     | SIZE                   | COLOR       | €/PC   |    |
|----------|------------------------|-------------|--------|----|
| SIPRB280 | 280 ml. (Blanco)       | WHITE       | 11,298 | 12 |
| SIPRG280 | 280 ml. (Gris)         | GREY        | 11,298 | 12 |
| SIPRM280 | 280 ml. (Marrón)       | BROWN       | 11,298 | 12 |
| SIPRN280 | 280 ml. (Negro)        | BLACK       | 11,298 | 12 |
| SIPRT280 | 280 ml. (Transparente) | TRANSPARENT | 11,298 | 12 |

CHARACTERISTICS

- Elastic and flexible
- Suitable for application on windows
- Available in white, black, brown (RAL 8016), grey (RAL 7030) and transparent
- Multi-material: suitable for use on aluminium and PVC carpentry, expansion joints, concrete, bricks, stone, wood, metals and glass)
- A+ Certificate for indoor emissions

CHEMICAL

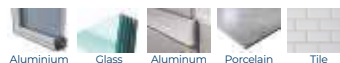


| CODE      | SIZE                   | COLOR       | €/PC   |    |
|-----------|------------------------|-------------|--------|----|
| SIPRSB280 | 280 ml. (Blanco)       | WHITE       | 11,298 | 12 |
| SIPRST280 | 280 ml. (Transparente) | TRANSPARENT | 11,298 | 12 |

CHARACTERISTICS

- They contain fungicides to avoid the appearance of mould
- Suitable for application in bathrooms and kitchens
- Elastic and flexible
- Suitable for application on windows
- Available in white and transparent
- Multi-material: suitable for use on aluminium and PVC carpentry, expansion joints, concrete, bricks, stone, wood, metals and glass)

CHEMICAL



| CODE      | SIZE                   | COLOR       | €/PC  |    |
|-----------|------------------------|-------------|-------|----|
| SIUNIB280 | 280 ml. (Blanco)       | WHITE       | 8,222 | 12 |
| SIUNIG280 | 280 ml. (Gris)         | GREY        | 8,222 | 12 |
| SIUNIM280 | 280 ml. (Marrón)       | BROWN       | 8,222 | 12 |
| SIUNIT280 | 280 ml. (Transparente) | TRANSPARENT | 8,222 | 12 |

CHARACTERISTICS

- Multiuse: suitable for use on aluminium, ceramic, glass and porcelain
- Not suitable for materials that are porous, oxidable or susceptible to acid attack
- Elastic and flexible
- Can be applied inside and outside

SI-PR

Professional neutral silicone for smooth and porous materials



SI-PRS

Professional neutra SANITARI silicone with fungicidal properties



SI-UNI

Multipurpose universal acetic silicone



# SI Silicones

## SI-UNS

Multipurpose universal acetic SANITAR silicone with fungicidal properties



CHEMICAL



| CODE      | SIZE                   | COLOR       | €/PC         |    |
|-----------|------------------------|-------------|--------------|----|
| SIUNSB280 | 280 ml. (Blanco)       | WHITE       | <b>8,222</b> | 12 |
| SIUNST280 | 280 ml. (Transparente) | TRANSPARENT | <b>8,222</b> | 12 |

### CHARACTERISTICS

- Contains fungicide to prevent the appearance of mould
- Suitable for application in bathrooms and kitchens
- Elastic and flexible
- Suitable for application on windows
- Available in white and transparent
- Multiuse: Suitable for use on aluminium, ceramic, glass and porcelain
- Not suitable for materials that are porous, oxidable or susceptible to acid attack



## SE-ACR

Acrylic sealant for joints & cracks



CHEMICAL

| CODE      | SIZE             | COLOR | €/PC         |    |
|-----------|------------------|-------|--------------|----|
| SEACRB280 | 280 ml. (Blanco) | WHITE | <b>4,957</b> | 12 |
| SEACRG280 | 280 ml. (Gris)   | GREY  | <b>4,957</b> | 12 |

### CHARACTERISTICS

- Suitable for sealing all types of joints, small holes, cracks in façades and walls, slits in shutter encasements, and door and window frames
- Suitable for application on porous materials (concrete, wood, ceramic tiles, gypsum board) and for repairing small cracks
- Flexible and high adherence
- Can be painted and varnished
- Very easy to apply
- Suitable for indoor & outdoor applications



# MS-CA

Adhesives Hybrid MS Polymer



MSCAHT



MSCATP

CHEMICAL


| CODE   | SIZE  | SUITABLE FOR    | €/BAG         |   |    |
|--------|-------|-----------------|---------------|---|----|
| MSCATP | Tapón | MS-PR, MS-T, SI | <b>12,259</b> | 1 | 18 |
| MSCAHT | Ancha | MS-SF           | <b>12,845</b> | 1 | 18 |

Polyurethane foams

PU

CHEMICAL



| CODE    | SIZE    | €/PC   |  |
|---------|---------|--------|--|
| PUSP750 | 750 ml. | 14,097 | 12   |




PU-SP

Multipurpose polyurethane foam for gun application



CHEMICAL



| CODE    | SIZE    | €/PC   |  |
|---------|---------|--------|--|
| PUSC750 | 750 ml. | 13,405 | 12   |



NEW ECOFLEX NOZZLE

Its innovative blocking system means that the product can be kept and reused for several days, reducing product waste and being more environmentally friendly.


PU-SC

Multipurpose polyurethane foam for ECOFLEX nozzle application



CHEMICAL



| CODE    | SIZE    | €/PC   |  |
|---------|---------|--------|--|
| PUTP750 | 750 ml. | 14,860 | 12   |



PU-TP

Polyurethane foam for gun application. Grey colour





# PU

## Polyurethane foams

### PU-TPR

Polyurethane foam for fixing tiles for gun application. Tile colour



| CODE     | SIZE    | €/PC          |    |
|----------|---------|---------------|----|
| PUTPR750 | 750 ml. | <b>14,860</b> | 12 |



### PU-FP

Fire-resistant polyurethane foam for gun application



| CODE    | SIZE    | €/PC          |    |
|---------|---------|---------------|----|
| PUFP750 | 750 ml. | <b>25,272</b> | 12 |



### PU-FC

Fire-resistant polyurethane foam for ECOFLEX nozzle application



| CODE    | SIZE    | €/PC          |    |
|---------|---------|---------------|----|
| PUFC750 | 750 ml. | <b>24,512</b> | 12 |




Polyurethane foams

PU

CHEMICAL



| CODE    | SIZE    | €/PC   |  |
|---------|---------|--------|--|
| PUEP750 | 750 ml. | 23,309 | 12   |



**NEW ECOFLEX NOZZLE**

Its innovative blocking system means that the product can be kept and reused for several days, reducing product waste and being more environmentally friendly.


**PU-EP**

Polyurethane adhesive for ETICS/ panels for gun application



CHEMICAL



| CODE    | SIZE    | €/PC   |  |
|---------|---------|--------|--|
| PUCL500 | 500 ml. | 14,618 | 12   |



**PU-CL**

Cleaner for polyurethane foam accessories



# PU-PI



Application guns for polyurethane foams

## PU-PI

CHEMICAL

Professional gun




| CODE   | SIZE    | €/PC          |  |  |
|--------|---------|---------------|---|---|
| PUPI01 | 750 ml. | <b>99,052</b> | 1   | 12  |

## PU-PI 2

CHEMICAL

Basic gun





| CODE   | SIZE    | €/PC          |  |  |
|--------|---------|---------------|---|---|
| PUPI02 | 750 ml. | <b>39,017</b> | 1   | 12  |

# PU-CA

Nozzle for polyurethane foam application

CHEMICAL



| CODE   | SIZE    | €/PC         |  |  |
|--------|---------|--------------|---|---|
| PUCA01 | 750 ml. | <b>5,008</b> | 1   | 18  |



# PLASTIC FIXINGS





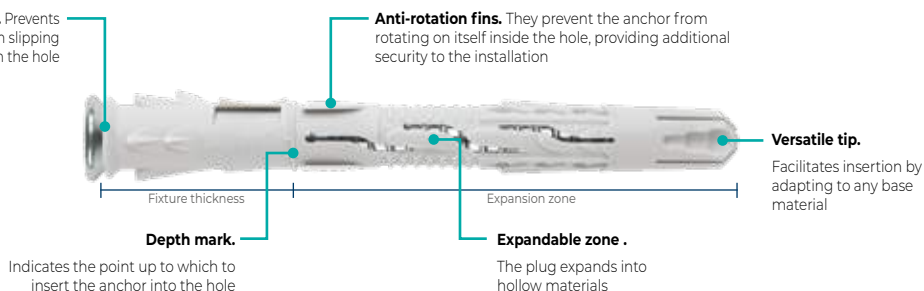
# T-NUX

High-performance universal nylon plugs for use in concrete and masonry are a versatile and professional solution. They allow installation with the highest security guarantees thanks to the fact that they have ETE approval and fire resistance.

Their design allows the plug to adapt to any type of base material, whether solid or hollow. Also, it allows the load to be spread throughout the entire plug, thanks to a controlled expansion at different points of the material where it is installed.



## DESIGN AND GEOMETRY



## QUALITIES AND ADVANTAGES



### MAXIMUM VERSATILITY. MULTI-MATERIAL.

Their design allows the plug to adapt to any type of base material, whether solid or hollow. Particularly suitable for when the base material where the fixation is made is unknown.

### MAXIMUM GUARANTEES. PRODUCTS APPROVED ACCORDING TO THE HIGHEST QUALITY STANDARDS.

- Approved (ETA 14/0467) for non-structural uses in concrete, aerated concrete, solid brick, hollow brick and concrete block (in sizes Ø8 and Ø10)
- Approved for fire resistance R30-R120 in concrete

\*The anchor is approved when the plug and the screw are used together, not separately. Using approved anchors provides safety and quality to the anchor, meeting the highest quality standards.



## APPLICATIONS



- Fixing of window and door frames.
- Garage doors.
- Railings.
- Balustrades.
- Fixing of screens.
- Rehabilitation of façades.
- Fixing of metal substructures for ventilated façades.
- Interior and exterior uses.
- Fixing of stone panels for façade cladding.

## 100% INDEX MANUFACTURED

This allows us to ensure a rigorous control of processes, guarantee the highest quality in our products, provide the best service and obtain a competitive global cost.



### QUALITY PRODUCT

The T-NUX anchor is made up of two top quality elements, a Polyamide 6 nylon plug and a screw (see different alternatives in the range. The loose plug is also available).



### MAXIMUM PERFORMANCE

The geometry of the plug means that when inserting the screw, the plug expands in a uniform way and provides a high-performance fixing of up to 202 Kg per anchor (see technical data sheet).

## RANGE



| PRODUCT                  | T-NUX A     | T-NUX A A4  | T-NUX E   | T-NUX E A4 | T-NUX T            | T-FUX E                  | T-NUX |
|--------------------------|-------------|-------------|-----------|------------|--------------------|--------------------------|-------|
| HEAD OF THE SCREW        | Countersunk | Countersunk | Hexagonal | Hexagonal  | Tamper-proof truss | Hexagonal without washer | Stud  |
| COATING/SCREW MATERIAL   | Z           | A4 INOX     | Z         | A4 INOX    | Z                  | Z                        | -     |
| TYPE OF HEAD OF THE PLUG |             |             |           |            |                    |                          |       |
| CE                       | ✓           | ✓           | ✓         | ✓          | ✓                  | ✓                        |       |
| Fire Resistance          | ✓           | ✓           | ✓         | ✓          | ✓                  | ✓                        |       |

### THE PERFECT COATING ACCORDING TO THE EXPECTED LEVELS OF CORROSION



**A4 Stainless Steel:** Suitable for indoor and outdoor applications, in coastal or industrial areas, areas exposed to high pollution levels and areas near roads.



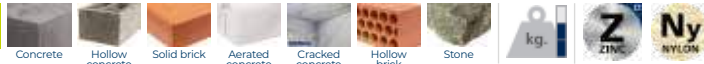
**Zinc coating:** suitable for use in dry indoor conditions (category C1 according to ISO 923), for a period of 50 years.

Universal high performance nylon plug

# T-NUX

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MULTI-MATERIAL



| CODE         | SIZE         | €/100   |      | THICKNESS MAX. FIXTURE |    |     |
|--------------|--------------|---------|------|------------------------|----|-----|
| • TNUXA08060 | 8 x 60 Ø8    | 51,260  | TX30 | 10                     | 50 | 600 |
| • TNUXA08080 | 8 x 80 Ø8    | 56,110  | TX30 | 10                     | 50 | 600 |
| • TNUXA08100 | 8 x 100 Ø8   | 70,137  | TX30 | 30                     | 50 | 600 |
| • TNUXA08120 | 8 x 120 Ø8   | 80,197  | TX30 | 50                     | 50 | 300 |
| • TNUXA10060 | 10 x 60 Ø10  | 75,970  | TX40 | 10                     | 50 | 300 |
| TNUXA10080   | 10 x 80 Ø10  | 93,397  | TX40 | 10                     | 50 | 300 |
| TNUXA10100   | 10 x 100 Ø10 | 105,527 | TX40 | 30                     | 50 | 300 |
| TNUXA10120   | 10 x 120 Ø10 | 121,577 | TX40 | 50                     | 50 | 300 |
| TNUXA10140   | 10 x 140 Ø10 | 151,050 | TX40 | 70                     | 50 | 300 |
| TNUXA10160   | 10 x 160 Ø10 | 161,223 | TX40 | 90                     | 50 | 200 |
| TNUXA10180   | 10 x 180 Ø10 | 220,267 | TX40 | 110                    | 50 | 150 |
| TNUXA10200   | 10 x 200 Ø10 | 267,037 | TX40 | 130                    | 50 | 150 |
| TNUXA10230   | 10 x 230 Ø10 | 311,377 | TX40 | 160                    | 50 | 100 |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist

Blister

| CODE        | SIZE         | €/BAG | PCS | BAGS |
|-------------|--------------|-------|-----|------|
| BZTNXA08080 | 8 x 80 Ø8    | 3,071 | 2   | 15   |
| BZTNXA08100 | 8 x 100 Ø8   | 3,071 | 2   | 15   |
| BZTNXA08120 | 8 x 120 Ø8   | 3,071 | 2   | 15   |
| BZTNXA10080 | 10 x 80 Ø10  | 3,071 | 2   | 15   |
| BZTNXA10100 | 10 x 100 Ø10 | 3,071 | 2   | 15   |
| BZTNXA10120 | 10 x 120 Ø10 | 3,071 | 2   | 15   |

Window box

| CODE        | SIZE         | €/BOX  | PCS | BOXES |
|-------------|--------------|--------|-----|-------|
| VTNUXA08080 | 8 x 80 Ø8    | 5,710  | 8   | 8     |
| VTNUXA08100 | 8 x 100 Ø8   | 7,135  | 8   | 8     |
| VTNUXA10080 | 10 x 80 Ø10  | 9,500  | 8   | 8     |
| VTNUXA10100 | 10 x 100 Ø10 | 10,735 | 8   | 8     |

Self-service

| CODE        | SIZE         | €/BAG | PCS | BAGS |
|-------------|--------------|-------|-----|------|
| LSTNXA08080 | 8 x 80 Ø8    | 6,549 | 10  | 8    |
| LSTNXA08100 | 8 x 100 Ø8   | 7,798 | 10  | 8    |
| LSTNXA08120 | 8 x 120 Ø8   | 8,586 | 8   | 8    |
| LSTNXA10080 | 10 x 80 Ø10  | 9,229 | 8   | 8    |
| LSTNXA10100 | 10 x 100 Ø10 | 7,040 | 6   | 6    |

## T-NUX A

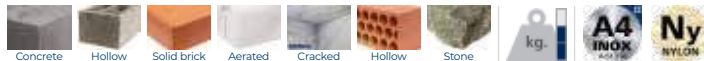
Countersunk head. TX recess. Zinc-plated. ETA Assessed



Available in different coatings. Ask for price and delivery time.

02 Technical info p. 400

STAINLESS STEEL



| CODE         | SIZE         | €/100   |      | THICKNESS MAX. FIXTURE |    |     |
|--------------|--------------|---------|------|------------------------|----|-----|
| • TNXA408080 | 8 x 80 Ø8    | 274,340 | TX30 | 10                     | 50 | 600 |
| • TNXA408100 | 8 x 100 Ø8   | 330,807 | TX30 | 30                     | 50 | 600 |
| • TNXA408120 | 8 x 120 Ø8   | 408,667 | TX30 | 50                     | 50 | 300 |
| TNXA410080   | 10 x 80 Ø10  | 349,183 | TX40 | 10                     | 50 | 300 |
| TNXA410100   | 10 x 100 Ø10 | 416,913 | TX40 | 30                     | 50 | 300 |
| TNXA410120   | 10 x 120 Ø10 | 485,523 | TX40 | 50                     | 50 | 300 |
| TNXA410140   | 10 x 140 Ø10 | 575,743 | TX40 | 70                     | 50 | 300 |

• Non-assessed sizes for Fire Resist

## T-NUX A A4

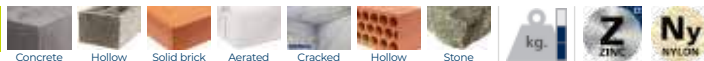
A4 Stainless steel. Countersunk head. TX recess. ETA Assessed



Available in different coatings. Ask for price and delivery time.

02 Technical info p. 400

MULTI-MATERIAL



| CODE         | SIZE         | €/100   | N° RECESS | THICKNESS MAX. FIXTURE |    |     |
|--------------|--------------|---------|-----------|------------------------|----|-----|
| • TNUXE08060 | 8 x 60 Ø8    | 58,950  | SW10/TX30 | 10                     | 50 | 600 |
| • TNUXE08080 | 8 x 80 Ø8    | 67,180  | SW10/TX30 | 10                     | 50 | 600 |
| • TNUXE08100 | 8 x 100 Ø8   | 84,863  | SW10/TX30 | 30                     | 50 | 300 |
| • TNUXE08120 | 8 x 120 Ø8   | 99,383  | SW10/TX30 | 50                     | 50 | 300 |
| • TNUXE10060 | 10 x 60 Ø10  | 86,830  | SW13/TX40 | 10                     | 50 | 300 |
| TNUXE10080   | 10 x 80 Ø10  | 102,387 | SW13/TX40 | 10                     | 50 | 300 |
| TNUXE10100   | 10 x 100 Ø10 | 118,727 | SW13/TX40 | 30                     | 50 | 300 |
| TNUXE10120   | 10 x 120 Ø10 | 158,407 | SW13/TX40 | 50                     | 50 | 300 |
| TNUXE10140   | 10 x 140 Ø10 | 202,157 | SW13/TX40 | 70                     | 50 | 200 |
| TNUXE10160   | 10 x 160 Ø10 | 202,630 | SW13/TX40 | 90                     | 50 | 150 |
| TNUXE10180   | 10 x 180 Ø10 | 244,287 | SW13/TX40 | 110                    | 50 | 150 |
| TNUXE10200   | 10 x 200 Ø10 | 322,963 | SW13/TX40 | 130                    | 50 | 150 |
| TNUXE10230   | 10 x 230 Ø10 | 393,557 | SW13/TX40 | 160                    | 50 | 100 |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist

Blister

| CODE        | SIZE         | €/BAG | PCS | BAGS |
|-------------|--------------|-------|-----|------|
| BZTNXE08080 | 8 x 80 Ø8    | 3,071 | 2   | 15   |
| BZTNXE08100 | 8 x 100 Ø8   | 3,071 | 2   | 15   |
| BZTNXE08120 | 8 x 120 Ø8   | 3,071 | 2   | 15   |
| BZTNXE10080 | 10 x 80 Ø10  | 3,071 | 2   | 15   |
| BZTNXE10100 | 10 x 100 Ø10 | 3,071 | 2   | 15   |
| BZTNXE10120 | 10 x 120 Ø10 | 3,071 | 2   | 15   |

Window box

| CODE        | SIZE         | €/BOX  | PCS | BOXES |
|-------------|--------------|--------|-----|-------|
| VTNUXE08080 | 8 x 80 Ø8    | 6,837  | 8   | 8     |
| VTNUXE08100 | 8 x 100 Ø8   | 8,633  | 8   | 8     |
| VTNUXE10080 | 10 x 80 Ø10  | 10,415 | 8   | 8     |
| VTNUXE10100 | 10 x 100 Ø10 | 12,075 | 8   | 8     |

Self-service

| CODE        | SIZE         | €/BAG | PCS | BAGS |
|-------------|--------------|-------|-----|------|
| LSTNXE08080 | 8 x 80 Ø8    | 7,467 | 10  | 8    |
| LSTNXE08100 | 8 x 100 Ø8   | 9,434 | 10  | 8    |
| LSTNXE08120 | 8 x 120 Ø8   | 9,904 | 8   | 8    |
| LSTNXE10080 | 10 x 80 Ø10  | 6,832 | 6   | 6    |
| LSTNXE10100 | 10 x 100 Ø10 | 7,921 | 6   | 6    |

## T-NUX E

Hexagonal head. TX recess. Zinc-plated. ETA Assessed



Available in different coatings. Ask for price and delivery time.

# T-NUX

Universal high performance nylon plug

## T-NUX E A4

A4 Stainless steel. Hexagonal head. TX recess. ETA Assessed



02 Technical info P. 400

STAINLESS STEEL



| CODE         | SIZE         | €/100          | N° RECESS | THICKNESS MAX. FIXTURE |    |     |
|--------------|--------------|----------------|-----------|------------------------|----|-----|
| • TNXE408080 | 8 x 80 Ø8    | <b>385,110</b> | SW10/TX30 | 10                     | 50 | 600 |
| • TNXE408100 | 8 x 100 Ø8   | <b>456,453</b> | SW10/TX30 | 30                     | 50 | 300 |
| TNXE410080   | 10 x 80 Ø10  | <b>510,813</b> | SW13/TX40 | 10                     | 50 | 300 |
| TNXE410100   | 10 x 100 Ø10 | <b>533,470</b> | SW13/TX40 | 30                     | 50 | 300 |
| TNXE410120   | 10 x 120 Ø10 | <b>641,233</b> | SW13/TX40 | 50                     | 50 | 300 |
| TNXE410140   | 10 x 140 Ø10 | <b>747,997</b> | SW13/TX40 | 70                     | 50 | 200 |

• Non-assessed sizes for Fire Resist

## T-NUX T

Tamperproof Truss Head. TX recess. Zinc-plated. ETA Assessed



Available in different coatings. Ask for price and delivery time.

02 Technical info P. 400

MULTI-MATERIAL



| CODE       | SIZE         | €/100          |      | THICKNESS MAX. FIXTURE |    |     |
|------------|--------------|----------------|------|------------------------|----|-----|
| TNuxt10080 | 10 x 80 Ø10  | <b>105,537</b> | TX40 | 10                     | 50 | 300 |
| TNuxt10100 | 10 x 100 Ø10 | <b>119,250</b> | TX40 | 30                     | 50 | 300 |
| TNuxt10120 | 10 x 120 Ø10 | <b>140,047</b> | TX40 | 50                     | 50 | 200 |
| TNuxt10140 | 10 x 140 Ø10 | <b>174,000</b> | TX40 | 70                     | 50 | 200 |
| TNuxt10160 | 10 x 160 Ø10 | <b>185,717</b> | TX40 | 90                     | 50 | 200 |

## T-FUX E

Cylindrical head wall plug. Hexagonal head screw. TX recess. Zinc-plated. ETA Assessed



02 Technical info P. 400

MULTI-MATERIAL



| CODE         | SIZE         | €/100          |           | THICKNESS MAX. FIXTURE |    |     |
|--------------|--------------|----------------|-----------|------------------------|----|-----|
| • TFUXE10080 | 10 x 80 Ø10  | <b>110,990</b> | SW13/TX40 | 10                     | 50 | 300 |
| TFUXE10100   | 10 x 100 Ø10 | <b>128,703</b> | SW13/TX40 | 30                     | 50 | 200 |
| TFUXE10120   | 10 x 120 Ø10 | <b>168,017</b> | SW13/TX40 | 50                     | 50 | 200 |

• Non-assessed sizes for Fire Resist

## T-NUX

Nylon plug



MULTI-MATERIAL



| CODE      | SIZE     | €/100         | THICKNESS MAX. FIXTURE |    |     |
|-----------|----------|---------------|------------------------|----|-----|
| TNux08060 | 8 x 60   | <b>23,580</b> | -                      | 50 | 800 |
| TNux08080 | 8 x 80   | <b>25,430</b> | -                      | 50 | 600 |
| TNux08100 | 8 x 100  | <b>29,317</b> | -                      | 50 | 600 |
| TNux08120 | 8 x 120  | <b>32,330</b> | -                      | 50 | 600 |
| TNux10060 | 10 x 60  | <b>30,393</b> | -                      | 50 | 600 |
| TNux10080 | 10 x 80  | <b>30,820</b> | -                      | 50 | 600 |
| TNux10100 | 10 x 100 | <b>37,507</b> | -                      | 50 | 600 |
| TNux10120 | 10 x 120 | <b>44,183</b> | -                      | 50 | 600 |
| TNux10140 | 10 x 140 | <b>57,543</b> | -                      | 50 | 300 |



Polyamide 6.6 hammerfix nylon plug

TCA

02 Technical info P. 400

MULTI-MATERIAL



| CODE      | SIZE         | €/100   |      | THICKNESS MAX. FIXTURE |     |     |
|-----------|--------------|---------|------|------------------------|-----|-----|
| TC6A08080 | 8 x 80 Ø8    | 50,783  | TX30 | 15                     | 100 | 600 |
| TC6A08100 | 8 x 100 Ø8   | 59,033  | TX30 | 35                     | 100 | 400 |
| TC6A08120 | 8 x 120 Ø8   | 69,767  | TX30 | 55                     | 100 | 400 |
| TC6A10100 | 10 x 100 Ø10 | 83,790  | TX40 | 25                     | 100 | 300 |
| TC6A10120 | 10 x 120 Ø10 | 88,960  | TX40 | 40                     | 100 | 300 |
| TC6A10140 | 10 x 140 Ø10 | 102,727 | TX40 | 60                     | 100 | 300 |
| TC6A10160 | 10 x 160 Ø10 | 120,547 | TX40 | 85                     | 100 | 200 |
| TC6A10200 | 10 x 200 Ø10 | 200,223 | TX40 | 125                    | 100 | -   |

TC-6A

6 winged nylon plug with countersunk screw



02 Technical info P. 400

MULTI-MATERIAL



| CODE      | SIZE         | €/100   |           | THICKNESS MAX. FIXTURE |     |     |
|-----------|--------------|---------|-----------|------------------------|-----|-----|
| TC6E08080 | 8 x 80 Ø8    | 57,310  | SW10/TX30 | 15                     | 100 | 600 |
| TC6E08100 | 8 x 100 Ø8   | 66,817  | SW10/TX30 | 35                     | 100 | 400 |
| TC6E08120 | 8 x 120 Ø8   | 79,423  | SW10/TX30 | 55                     | 100 | 300 |
| TC6E10100 | 10 x 100 Ø10 | 96,523  | SW13/TX40 | 25                     | 100 | 300 |
| TC6E10120 | 10 x 120 Ø10 | 100,083 | SW13/TX40 | 40                     | 100 | 300 |
| TC6E10140 | 10 x 140 Ø10 | 118,127 | SW13/TX40 | 60                     | 100 | 200 |
| TC6E10160 | 10 x 160 Ø10 | 139,567 | SW13/TX40 | 85                     | 100 | 200 |
| TC6E10200 | 10 x 200 Ø10 | 235,557 | SW13/TX40 | 125                    | 100 | -   |

TC-6E

6 winged nylon plug with hexagonal screw



02 Technical info P. 401

MULTI-MATERIAL



| CODE      | SIZE         | €/100   |      | THICKNESS MAX. FIXTURE |     |       |
|-----------|--------------|---------|------|------------------------|-----|-------|
| TC2A06060 | 6 X 60 Ø6    | 27,220  | PZ 2 | 30                     | 100 | 1.200 |
| TC2A08060 | 8 X 60 Ø8    | 35,943  | PZ 3 | 20                     | 100 | 600   |
| TC2A08080 | 8 x 80 Ø8    | 47,420  | PZ 3 | 40                     | 100 | 600   |
| TC2A08100 | 8 x 100 Ø8   | 60,327  | PZ 3 | 60                     | 100 | 400   |
| TC2A08120 | 8 x 120 Ø8   | 73,420  | PZ 3 | 80                     | 100 | 400   |
| TC2A10065 | 10 x 65 Ø10  | 68,983  | PZ 4 | 20                     | 100 | 400   |
| TC2A10080 | 10 x 80 Ø10  | 73,373  | PZ 4 | 35                     | 100 | 400   |
| TC2A10100 | 10 x 100 Ø10 | 78,640  | PZ 4 | 55                     | 100 | 300   |
| TC2A10115 | 10 x 115 Ø10 | 85,997  | PZ 4 | 70                     | 100 | 300   |
| TC2A10135 | 10 x 135 Ø10 | 96,753  | PZ 4 | 90                     | 100 | 300   |
| TC2A10160 | 10 x 160 Ø10 | 113,780 | PZ 4 | 115                    | 100 | 200   |

TC-2A

2 winged nylon plug with countersunk screw





# TC-SP

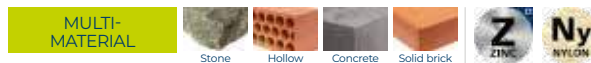
High expansion hammerfix plug

## TC-SP

With countersunk head



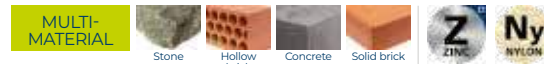
Technical info P. 401



| CODE      | SIZE   | €/100         | N° RECESS | THICKNESS MAX. FIXTURE |     |       |
|-----------|--------|---------------|-----------|------------------------|-----|-------|
| TCSP05027 | 5 x 27 | <b>8,377</b>  | PZ2       | 5                      | 100 | 2.400 |
| TCSP06032 | 6 x 32 | <b>9,857</b>  | PZ2       | 5                      | 100 | 1.200 |
| TCSP06040 | 6 x 40 | <b>10,217</b> | PZ2       | 10                     | 100 | 1.200 |

## TC-SP EP

Plastic container



| CODE        | SIZE   | €/PC          | N° RECESS | THICKNESS MAX. FIXTURE |   | PCS. X JAR |
|-------------|--------|---------------|-----------|------------------------|---|------------|
| TCSPEP05027 | 5 x 27 | <b>60,860</b> | PZ2       | 5                      | 1 | 750        |
| TCSPEP06032 | 6 x 32 | <b>47,798</b> | PZ2       | 5                      | 1 | 500        |
| TCSPEP06040 | 6 x 40 | <b>49,362</b> | PZ2       | 10                     | 1 | 500        |

# TC

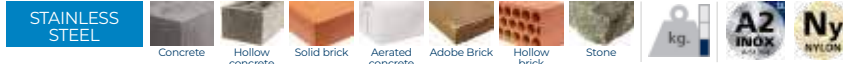
Polyamide 6.6 Hammerfix plug. Preassembled saw-tooth screw

## TC-A2

Countersunk plug and A2 stainless steel screw



Technical info P. 402



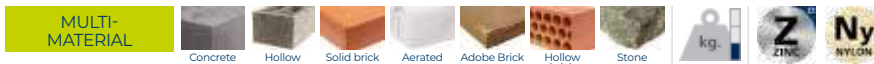
| CODE      | SIZE       | €/100          |     | THICKNESS MAX. FIXTURE |     |       |
|-----------|------------|----------------|-----|------------------------|-----|-------|
| TCA205030 | 5 x 30 Ø5  | <b>35,157</b>  | PZ2 | 5                      | 100 | 2.400 |
| TCA206040 | 6 x 40 Ø6  | <b>48,030</b>  | PZ2 | 10                     | 100 | 1.200 |
| TCA206060 | 6 x 60 Ø6  | <b>74,693</b>  | PZ2 | 30                     | 100 | 1.200 |
| TCA208060 | 8 x 60 Ø8  | <b>94,043</b>  | PZ3 | 20                     | 100 | 600   |
| TCA208080 | 8 x 80 Ø8  | <b>137,910</b> | PZ3 | 40                     | 100 | 600   |
| TCA208100 | 8 x 100 Ø8 | <b>145,113</b> | PZ3 | 60                     | 100 | 600   |

## TC-CC

Cylindrical head plug



Technical info P. 402



| CODE      | SIZE       | €/100         |     | THICKNESS MAX. FIXTURE | MIN. ORDER QTY. |     |       |
|-----------|------------|---------------|-----|------------------------|-----------------|-----|-------|
| TCCC05025 | 5 x 25 Ø5  | <b>6,620</b>  | PZ2 | 5                      | 400             | 100 | 2.400 |
| TCCC05030 | 5 x 30 Ø5  | <b>6,923</b>  | PZ2 | 5                      | 400             | 100 | 2.400 |
| TCCC05035 | 5 x 35 Ø5  | <b>7,827</b>  | PZ2 | 10                     | 400             | 100 | 2.400 |
| TCCC05050 | 5 x 50 Ø5  | <b>8,843</b>  | PZ2 | 25                     | 200             | 100 | 1.200 |
| TCCC06035 | 6 x 35 Ø6  | <b>8,533</b>  | PZ2 | 10                     | 400             | 100 | 1.200 |
| TCCC06040 | 6 x 40 Ø6  | <b>8,617</b>  | PZ2 | 15                     | 400             | 100 | 1.200 |
| TCCC06050 | 6 x 50 Ø6  | <b>10,453</b> | PZ2 | 25                     | 200             | 100 | 1.200 |
| TCCC06060 | 6 x 60 Ø6  | <b>12,243</b> | PZ2 | 35                     | 200             | 100 | 1.200 |
| TCCC06070 | 6 x 70 Ø6  | <b>15,120</b> | PZ2 | 45                     | 200             | 100 | 1.200 |
| TCCC06080 | 6 x 80 Ø6  | <b>16,467</b> | PZ2 | 55                     | -               | 100 | 1.200 |
| TCCC08060 | 8 x 60 Ø8  | <b>18,443</b> | PZ3 | 20                     | 200             | 100 | 600   |
| TCCC08080 | 8 x 80 Ø8  | <b>23,353</b> | PZ3 | 40                     | 200             | 100 | 600   |
| TCCC08100 | 8 x 100 Ø8 | <b>28,553</b> | PZ3 | 60                     | 100             | 100 | 600   |
| TCCC08120 | 8 x 120 Ø8 | <b>34,550</b> | PZ3 | 80                     | 100             | 100 | 400   |
| TCCC08140 | 8 x 140 Ø8 | <b>43,370</b> | PZ3 | 100                    | 100             | 100 | 300   |

Self-service

| CODE        | SIZE      | €/BAG        | PCS | BAGS |
|-------------|-----------|--------------|-----|------|
| LSTCCC05025 | 5 x 25 Ø5 | <b>3,128</b> | 30  | 10   |
| LSTCCC05030 | 5 x 30 Ø5 | <b>3,297</b> | 30  | 8    |
| LSTCCC05035 | 5 x 35 Ø5 | <b>3,514</b> | 30  | 7    |
| LSTCCC05050 | 5 x 50 Ø5 | <b>3,947</b> | 30  | 7    |
| LSTCCC06035 | 6 x 35 Ø6 | <b>3,920</b> | 30  | 7    |
| LSTCCC06040 | 6 x 40 Ø6 | <b>3,965</b> | 30  | 6    |
| LSTCCC06050 | 6 x 50 Ø6 | <b>4,082</b> | 25  | 6    |
| LSTCCC06060 | 6 x 60 Ø6 | <b>4,699</b> | 25  | 6    |
| LSTCCC06070 | 6 x 70 Ø6 | <b>5,136</b> | 25  | 6    |
| LSTCCC08060 | 8 x 60 Ø8 | <b>5,096</b> | 20  | 6    |
| LSTCCC08080 | 8 x 80 Ø8 | <b>6,377</b> | 20  | 6    |



Polyamide 6.6 Hammerfix plug. Preassembled saw-tooth screw

TC



MULTI-MATERIAL



TC-CA

Countersunk plug

| CODE      | SIZE       | €/100  |     | THICKNESS MAX. FIXTURE | MIN. ORDER QTY. |     |       |
|-----------|------------|--------|-----|------------------------|-----------------|-----|-------|
| TCCA05025 | 5 x 25 Ø5  | 6,697  | PZ2 | 5                      | 400             | 100 | 2.400 |
| TCCA05030 | 5 x 30 Ø5  | 7,000  | PZ2 | 5                      | 400             | 100 | 2.400 |
| TCCA05035 | 5 x 35 Ø5  | 7,917  | PZ2 | 10                     | 400             | 100 | 2.400 |
| TCCA05050 | 5 x 50 Ø5  | 8,950  | PZ2 | 25                     | 200             | 100 | 1.200 |
| TCCA06035 | 6 x 35 Ø6  | 8,633  | PZ2 | 10                     | 400             | 100 | 1.200 |
| TCCA06040 | 6 x 40 Ø6  | 8,713  | PZ2 | 10                     | 400             | 100 | 1.200 |
| TCCA06050 | 6 x 50 Ø6  | 10,573 | PZ2 | 20                     | 200             | 100 | 1.200 |
| TCCA06060 | 6 x 60 Ø6  | 12,380 | PZ2 | 30                     | 200             | 100 | 1.200 |
| TCCA06070 | 6 x 70 Ø6  | 15,297 | PZ2 | 40                     | 200             | 100 | 1.200 |
| TCCA06080 | 6 x 80 Ø6  | 16,657 | PZ2 | 50                     | 200             | 100 | 1.200 |
| TCCA08060 | 8 x 60 Ø8  | 18,653 | PZ3 | 20                     | 200             | 100 | 600   |
| TCCA08080 | 8 x 80 Ø8  | 23,617 | PZ3 | 40                     | 200             | 100 | 600   |
| TCCA08100 | 8 x 100 Ø8 | 28,880 | PZ3 | 60                     | 100             | 100 | 600   |
| TCCA08120 | 8 x 120 Ø8 | 34,940 | PZ3 | 80                     | 100             | 100 | 400   |
| TCCA08140 | 8 x 140 Ø8 | 43,860 | PZ3 | 100                    | 100             | 100 | 300   |



ALSO AVAILABLE  
**easykits**



Blister

Window box

Self-service

| CODE        | SIZE       | €/BAG | PCS BAG | BAGS |
|-------------|------------|-------|---------|------|
| BZTCCA05030 | 5 x 30 Ø5  | 2,302 | 4       | 20   |
| BZTCCA05050 | 5 x 50 Ø5  | 2,302 | 4       | 20   |
| BZTCCA06040 | 6 x 40 Ø6  | 2,302 | 4       | 20   |
| BZTCCA06050 | 6 x 50 Ø6  | 2,302 | 4       | 20   |
| BZTCCA06060 | 6 x 60 Ø6  | 2,302 | 4       | 20   |
| BZTCCA06070 | 6 x 70 Ø6  | 2,302 | 4       | 20   |
| BZTCCA08060 | 8 x 60 Ø8  | 2,302 | 4       | 20   |
| BZTCCA08080 | 8 x 80 Ø8  | 2,302 | 4       | 20   |
| BZTCCA08100 | 8 x 100 Ø8 | 2,302 | 2       | 20   |
| BZTCCA08120 | 8 x 120 Ø8 | 2,302 | 2       | 20   |

| CODE       | SIZE      | €/BOX | PCS | BOXES |
|------------|-----------|-------|-----|-------|
| VTCCA05025 | 5 x 25 Ø5 | 2,986 | 30  | 8     |
| VTCCA05030 | 5 x 30 Ø5 | 3,135 | 30  | 8     |
| VTCCA05035 | 5 x 35 Ø5 | 3,458 | 30  | 8     |
| VTCCA05050 | 5 x 50 Ø5 | 3,819 | 30  | 8     |
| VTCCA06035 | 6 x 35 Ø6 | 3,683 | 30  | 8     |
| VTCCA06040 | 6 x 40 Ø6 | 3,778 | 30  | 8     |
| VTCCA06050 | 6 x 50 Ø6 | 4,149 | 30  | 8     |
| VTCCA06060 | 6 x 60 Ø6 | 4,282 | 25  | 8     |
| VTCCA06070 | 6 x 70 Ø6 | 5,285 | 25  | 8     |
| VTCCA08060 | 8 x 60 Ø8 | 5,142 | 20  | 8     |
| VTCCA08080 | 8 x 80 Ø8 | 6,562 | 20  | 8     |

| CODE        | SIZE      | €/BAG | PCS | BAGS |
|-------------|-----------|-------|-----|------|
| LSTCCA05025 | 5 x 25 Ø5 | 3,128 | 30  | 10   |
| LSTCCA05030 | 5 x 30 Ø5 | 3,297 | 30  | 8    |
| LSTCCA05035 | 5 x 35 Ø5 | 3,514 | 30  | 7    |
| LSTCCA05050 | 5 x 50 Ø5 | 3,947 | 30  | 7    |
| LSTCCA06035 | 6 x 35 Ø6 | 3,920 | 30  | 7    |
| LSTCCA06040 | 6 x 40 Ø6 | 3,965 | 30  | 6    |
| LSTCCA06050 | 6 x 50 Ø6 | 4,082 | 25  | 6    |
| LSTCCA06060 | 6 x 60 Ø6 | 4,699 | 25  | 6    |
| LSTCCA06070 | 6 x 70 Ø6 | 5,136 | 25  | 6    |
| LSTCCA08060 | 8 x 60 Ø8 | 5,096 | 20  | 6    |
| LSTCCA08080 | 8 x 80 Ø8 | 6,377 | 20  | 6    |

MULTI-MATERIAL



TC-CA EP

Plastic container

| CODE       | SIZE      | €/PC   |     | THICKNESS MAX. FIXTURE | MIN. ORDER QTY. |   | PCS. X JAR |
|------------|-----------|--------|-----|------------------------|-----------------|---|------------|
| TCCAEP5030 | 5 x 30 Ø5 | 49,021 | PZ3 | 5                      | 2               | 1 | 750        |
| TCCAEP6040 | 6 x 40 Ø6 | 44,314 | PZ3 | 10                     | 2               | 1 | 500        |



# TN4S

The INDEX TN4S expansion plugs offer maximum performance thanks to their 4-way expansion. They stand out for their versatility in installation, being suitable for application both in solid materials (concrete, solid brick), and in hollow materials (hollow brick, hollow concrete blocks, plasterboard). They can support loads of more than 600 kg per support point. They are manufactured with high-quality Nylon® (polyamide 6).



## QUALITIES AND ADVANTAGES



### MAXIMUM PERFORMANCE

It expands in 4 directions, guaranteeing perfect adherence to the base material. In hollow materials, when the screw/lag screw is inserted, the plug expands by retracting and pressing on the base material and providing a correct grip.



### MULTI-MATERIAL

Recommended for both solid (concrete, stone, solid brick, adobe brick, cellular concrete), and hollow base materials (hollow brick, hollow block, plasterboard, alveolar plates).



### VERSATILITY

Recommended for use with a wide range of screws (chipboard screws, countersunk screws, coach screws...), as well as other types of products (hooks or eyes).



### EASY TO USE

The collar prevents the plug from slipping into the base material during installation. The plug has several lateral anti-rotation fins that help prevent the plug from turning when inserting the screw/lag screw.

## APPLICATIONS



- Fences
- Railings
- Supports
- Shelving
- Signs
- Sanitary and/or bathroom facilities
- Paintings
- Light elements
- Illumination
- Baseboards
- Mailboxes
- TV cabinets
- Wiring ducts
- Furniture

# TN4S

4-way expansion plug for all materials

## TN4S

Plug



Technical info  
P. 404

MULTI-MATERIAL



| CODE   | SIZE        | €/100  | SCREW SIZE       | MIN. ORDER QTY. |     |
|--------|-------------|--------|------------------|-----------------|-----|
| TN4S05 | 5 x 25 Ø5   | 3,517  | TPPO 3-4         | 400             | 100 |
| TN4S06 | 6 x 30 Ø6   | 3,677  | TPPO 4-5         | 400             | 100 |
| TN4S08 | 8 x 40 Ø8   | 5,760  | TPPO 4,5, TB 5-6 | 400             | 100 |
| TN4S10 | 10 x 50 Ø10 | 10,347 | TB 6-8           | 200             | 50  |
| TN4S12 | 12 x 60 Ø12 | 20,933 | TB 8-10          | 50              | 25  |
| TN4S14 | 14 x 70 Ø14 | 27,200 | TB 10-12         | 40              | 20  |

Blister

| CODE     | SIZE        | €/BAG | PCS | BAGS |
|----------|-------------|-------|-----|------|
| BZTN4S05 | 5 x 25 Ø5   | 2,302 | 25  | 15   |
| BZTN4S06 | 6 x 30 Ø6   | 2,302 | 25  | 15   |
| BZTN4S08 | 8 x 40 Ø8   | 2,302 | 15  | 10   |
| BZTN4S10 | 10 x 50 Ø10 | 2,302 | 10  | 10   |
| BZTN4S12 | 12 x 60 Ø12 | 2,302 | 6   | 10   |

## TN4S EP

Plastic container



MULTI-MATERIAL



| CODE     | SIZE        | €/PC   | SCREW SIZE       | MIN. ORDER QTY. |   |   | PCS. X JAR |
|----------|-------------|--------|------------------|-----------------|---|---|------------|
| TN4S06EP | 6 x 30 Ø6   | 33,807 | TPPO 4-5         | 2               | 1 | 3 | 1.000      |
| TN4S08EP | 8 x 40 Ø8   | 26,762 | TPPO 4,5, TB 5-6 | 2               | 1 | 3 | 500        |
| TN4S10EP | 10 x 50 Ø10 | 28,551 | TB 6-8           | 2               | 1 | 3 | 300        |



4-way expansion plug for all materials

# TN4S



**MULTI-MATERIAL**

Concrete Hollow concrete Solid brick Aerated concrete Adobe Brick Hollow brick Stone

Ny NYLON Z ZINC

**Blister**

| CODE       | SIZE                      | €/BAG | PCS | BAGS |
|------------|---------------------------|-------|-----|------|
| BZALHATS05 | 5x25 Ø5 + 19x70 / 4,4x50  | 2,302 | 6   | 20   |
| BZALHATS06 | 6x30 Ø6 + 20x80 / 5x53    | 2,302 | 6   | 15   |
| BZALHATS08 | 8x40 Ø8 + 21x100 / 5,6x60 | 2,302 | 4   | 20   |

## TN4S + AL-HA

Plug + open eye bolt



**MULTI-MATERIAL**

Concrete Hollow concrete Solid brick Aerated concrete Adobe Brick Hollow brick Stone

Ny NYLON Z ZINC

**Blister**

| CODE       | SIZE                      | €/BAG | PCS | BAGS |
|------------|---------------------------|-------|-----|------|
| BZALHCTS05 | 5x25 Ø5 + 19x70 / 4,4x50  | 2,302 | 6   | 20   |
| BZALHCTS06 | 6x30 Ø6 + 20x80 / 5x53    | 2,302 | 6   | 15   |
| BZALHCTS08 | 8x40 Ø8 + 21x100 / 5,6x60 | 2,302 | 4   | 20   |

## TN4S + AL-HC

Plug + closed eye bolt



**MULTI-MATERIAL**

Concrete Hollow concrete Solid brick Aerated concrete Adobe Brick Hollow brick Stone

Ny NYLON Z ZINC

**Blister**

| CODE       | SIZE                     | €/BAG | PCS | BAGS |
|------------|--------------------------|-------|-----|------|
| BZALROTS05 | 5x25 Ø5 + 18x50 / 4,1x37 | 2,302 | 6   | 20   |
| BZALROTS06 | 6x30 Ø6 + 19x60 / 4,4x46 | 2,302 | 6   | 20   |
| BZALROTS08 | 8x40 Ø8 + 20x80 / 5x63   | 2,302 | 4   | 20   |

## TN4S + AL-RO

Plug + hook bolt



**MULTI-MATERIAL**

Concrete Hollow concrete Solid brick Aerated concrete Adobe Brick Hollow brick Stone

Ny NYLON Z ZINC

**Window box**

| CODE    | SIZE                 | €/BOX | PCS | BOXES |
|---------|----------------------|-------|-----|-------|
| VTBTS08 | 8 x 40 Ø8 & 6 x 60   | 6,567 | 25  | 8     |
| VTBTS10 | 10 x 50 Ø10 & 7 x 70 | 6,805 | 15  | 8     |
| VTBTS12 | 12 x 60 Ø12 & 7 x 70 | 6,548 | 10  | 8     |

**Blister**

| CODE     | SIZE             | €/BAG | PCS | BAGS |
|----------|------------------|-------|-----|------|
| BZTBT510 | 10x50 Ø10 + 7x70 | 2,302 | 4   | 20   |

## TN4S + DIN-571

Plug + DIN-571 screw



**MULTI-MATERIAL**

Concrete Hollow concrete Solid brick Aerated concrete Adobe Brick Hollow brick Stone

Ny NYLON B YELLOW

**Window box**

| CODE       | SIZE                 | €/BOX | PCS | BOXES |
|------------|----------------------|-------|-----|-------|
| VTBTPOTS05 | 5 x 25 Ø5 & 4 x 30   | 4,655 | 40  | 8     |
| VTBTPOTS06 | 6 x 30 Ø6 & 4,5 x 40 | 4,855 | 32  | 8     |
| VTBTPOTS08 | 8 x 40 Ø8 & 5 x 60   | 5,130 | 20  | 8     |

**Blister**

| CODE       | SIZE             | €/BAG | PCS | BAGS |
|------------|------------------|-------|-----|------|
| BZTTPOTS05 | 5x25 Ø5 + 4x30   | 2,302 | 6   | 20   |
| BZTTPOTS06 | 6x30 Ø6 + 4,5x40 | 2,302 | 6   | 20   |
| BZTTPOTS08 | 8x40 Ø8 + 5x60   | 2,302 | 6   | 15   |

## TN4S + TP-PO

Plug + chipboard screw





# TN4S

4-way expansion plug for all materials

## NEW TN4S + TP-PO EP

Plug + Chipboard screw. Plastic container



| CODE       | SIZE             | €/PC   | SCREW SIZE | MIN. ORDER QTY. |   |   | PCS. X JAR |
|------------|------------------|--------|------------|-----------------|---|---|------------|
| TPPOTS06EP | 6x30 Ø6 + 4,5x40 | 25,536 | -          | -               | 1 | 6 | 250        |
| TPPOTS08EP | 8x40 Ø8 + 5x50   | 22,800 | -          | -               | 1 | 6 | 150        |

## TN4S-L

Long plug



| CODE    | SIZE        | €/100  | SCREW SIZE       |     |       |
|---------|-------------|--------|------------------|-----|-------|
| TN4S06L | 6 x 45 Ø6   | 6,200  | TPPO 4-5         | 100 | 1.600 |
| TN4S08L | 8 x 60 Ø8   | 9,883  | TPPO 4,5, TB 5-6 | 50  | 800   |
| TN4S10L | 10 x 80 Ø10 | 17,403 | TB 6-8           | 25  | 400   |

## NEW TN4S-A

Plug with collar



| CODE    | SIZE | €/100 | SCREW SIZE | MIN. ORDER QTY. |     |
|---------|------|-------|------------|-----------------|-----|
| TN4SA06 | 6    | 4,310 | TPPO 3,5-4 | -               | 100 |

## NEW TN4S-A EP

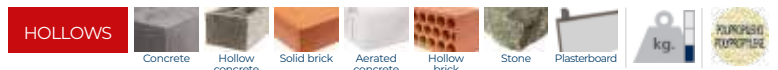
Plug with collar. Plastic container



| CODE      | SIZE | €/PC   | SCREW SIZE | MIN. ORDER QTY. |   |   | PCS. X JAR |
|-----------|------|--------|------------|-----------------|---|---|------------|
| TN4SA06EP | 6    | 39,652 | TPPO 4-5   | -               | 1 | - | 1.000      |

# MEDU

Universal plug with collar and knot-like form



| CODE    | SIZE        | SUITABLE FOR   | €/100 | MIN. ORDER QTY. |     |       |
|---------|-------------|----------------|-------|-----------------|-----|-------|
| MEDUB06 | 6 x 35 Ø6   | TPPO 3,5-4     | 3,500 | 600             | 150 | 2.400 |
| MEDUB07 | 8 x 45 Ø8   | TPPO 4         | 7,843 | 400             | 100 | 1.600 |
| MEDUB08 | 8 x 50 Ø8   | TPPO 4-4,5     | 6,013 | 320             | 80  | 1.200 |
| MEDUB10 | 10 x 60 Ø10 | TPPO 6, TB 6-7 | 9,003 | 200             | 50  | 800   |



| CODE      | SIZE        | €/BAG | PCS/BAG | BAGS |
|-----------|-------------|-------|---------|------|
| BZMEDUB06 | 6 x 35 Ø6   | 2,302 | 10      | 20   |
| BZMEDUB08 | 8 x 50 Ø8   | 2,302 | 10      | 20   |
| BZMEDUB10 | 10 x 60 Ø10 | 2,302 | 6       | 20   |



TACON + AL-HA

Plug + open eye bolt



Blister

| CODE      | SIZE                      | €/BAG | PCS | BAGS |
|-----------|---------------------------|-------|-----|------|
| BZALHAT04 | 4x20 Ø4 + 16x30 / 3,1x25  | 1,820 | 6   | 20   |
| BZALHAT05 | 5x25 Ø5 + 19x70 / 4,4x50  | 1,820 | 6   | 20   |
| BZALHAT06 | 6x30 Ø6 + 20x80 / 5x55    | 1,820 | 6   | 15   |
| BZALHAT08 | 8x40 Ø8 + 21x100 / 5,6x60 | 1,820 | 4   | 15   |



TACON + AL-HC

Plug + closed eye bolt



Blister

| CODE      | SIZE                      | €/BAG | PCS | BAGS |
|-----------|---------------------------|-------|-----|------|
| BZALHCT04 | 4x20 Ø4 + 16x30 / 3,1x25  | 1,820 | 6   | 20   |
| BZALHCT05 | 5x25 Ø5 + 19x70 / 4,4x50  | 1,820 | 6   | 20   |
| BZALHCT06 | 6x30 Ø6 + 20x80 / 5x55    | 1,820 | 6   | 15   |
| BZALHCT08 | 8x40 Ø8 + 21x100 / 5,6x60 | 1,820 | 4   | 15   |



TACON + AL-RO

Plug + hook bolt



Blister

| CODE      | SIZE                     | €/BAG | PCS | BAGS |
|-----------|--------------------------|-------|-----|------|
| BZALROT04 | 4x20 Ø4 + 16x30 / 3,1x20 | 1,820 | 6   | 20   |
| BZALROT05 | 5x25 Ø5 + 17x40 / 3,5x29 | 1,820 | 6   | 20   |
| BZALROT06 | 6x30 Ø6 + 19x60 / 4,4x46 | 1,820 | 6   | 20   |
| BZALROT08 | 8x40 Ø8 + 20x80 / 5x63   | 1,820 | 4   | 15   |



TACON + TP-PO

Plug + chipboard screw



Blister

| CODE      | SIZE             | €/BAG | PCS | BAGS |
|-----------|------------------|-------|-----|------|
| BZTPPOT04 | 4x20 Ø4 + 2,5x25 | 1,820 | 6   | 20   |
| BZTPPOT05 | 6x30 Ø5 + 3,5x20 | 1,820 | 6   | 20   |
| BZTPPOT06 | 6x30 Ø6 + 4,5x40 | 1,820 | 6   | 20   |
| BZTPPOT08 | 8x40 Ø8 + 6x50   | 1,820 | 4   | 15   |

AVAILABLE  
KITS  
BLISTER



# TACON

Nylon plug

## TACON

Plug



Technical info  
P. 404

MULTI-MATERIAL



| CODE    | SIZE        | €/100   | SCREW SIZE       | MIN. ORDER QTY. |     |
|---------|-------------|---------|------------------|-----------------|-----|
| TACON04 | 4 x 20 Ø4   | 2,663   | TPPO 2,5-3       | 400             | 100 |
| TACON05 | 5 x 25 Ø5   | 1,927   | TPPO 2,5-4       | 400             | 100 |
| TACON06 | 6 x 30 Ø6   | 1,973   | TPPO 3,5-4       | 400             | 100 |
| TACON07 | 7 x 30 Ø7   | 4,120   | TPPO 4-4,5       | 400             | 100 |
| TACON08 | 8 x 40 Ø8   | 3,887   | TPPO 4,5, TB 5-6 | 400             | 100 |
| TACON10 | 10 x 50 Ø10 | 6,553   | TB 6-8           | 200             | 50  |
| TACON12 | 12 x 60 Ø12 | 12,003  | TB 8-10          | 100             | 25  |
| TACON14 | 14 x 70 Ø14 | 19,407  | TB 10-12         | 80              | 20  |
| TACON16 | 16 x 80 Ø16 | 109,990 | TB 12-14         | 40              | 10  |

Blister

| CODE      | SIZE        | €/BAG | PCS PER BAG | BAGS |
|-----------|-------------|-------|-------------|------|
| BZTACON04 | 4 x 20 Ø4   | 1,820 | 25          | 15   |
| BZTACON05 | 5 x 25 Ø5   | 1,820 | 25          | 15   |
| BZTACON06 | 6 x 30 Ø6   | 1,820 | 25          | 15   |
| BZTACON08 | 8 x 40 Ø8   | 1,820 | 15          | 10   |
| BZTACON10 | 10 x 50 Ø10 | 1,820 | 10          | 10   |
| BZTACON12 | 12 x 60 Ø12 | 1,820 | 5           | 10   |

## TACOL

Plug with collar



Technical info  
P. 404

MULTI-MATERIAL



| CODE    | SIZE        | €/100  | SCREW SIZE       | MIN. ORDER QTY. |     |
|---------|-------------|--------|------------------|-----------------|-----|
| TACOL05 | 5 x 25 Ø5   | 2,737  | TPPO 2,5-4       | 400             | 100 |
| TACOL06 | 6 x 30 Ø6   | 3,276  | TPPO 3,5-4       | 400             | 100 |
| TACOL08 | 8 x 40 Ø8   | 4,597  | TPPO 4,5, TB 5-6 | 400             | 100 |
| TACOL10 | 10 x 50 Ø10 | 8,253  | TB 6-8           | 200             | 50  |
| TACOL12 | 12 x 60 Ø12 | 17,927 | TB 8-10          | 100             | 25  |

## TACOL-A

Plug with wide collar



Technical info  
P. 404

MULTI-MATERIAL



| CODE     | SIZE      | €/100 | SCREW SIZE |     |       |
|----------|-----------|-------|------------|-----|-------|
| TACOLA06 | 6 x 30 Ø6 | 3,392 | TPPO 3,5-4 | 100 | 2.400 |



Nylon plug in hollow bricks or solid materials

IPA

MULTI-MATERIAL



| CODE    | SIZE       | €/100  | MIN. ORDER QTY. | MIN. ORDER QTY. |
|---------|------------|--------|-----------------|-----------------|
| IPACA08 | M4 x 30 Ø8 | 22,700 | 100             | 1.200           |

IPA-CA NEW

Nylon plug



02 Technical info P. 405

MULTI-MATERIAL



| CODE    | SIZE        | €/100  | WASHER Ø | MIN. ORDER QTY. | MIN. ORDER QTY. | MIN. ORDER QTY. |
|---------|-------------|--------|----------|-----------------|-----------------|-----------------|
| IPAGR09 | M4 x 40 Ø9  | 45,386 | 20       | 100             | 50              | 800             |
| IPAGR12 | M5 x 45 Ø12 | 64,016 | 25       | 50              | 25              | 400             |

IPA-GR

Corner hook



02 Technical info P. 405

MULTI-MATERIAL



| CODE    | SIZE        | €/100  | WASHER Ø | MIN. ORDER QTY. | MIN. ORDER QTY. | MIN. ORDER QTY. |
|---------|-------------|--------|----------|-----------------|-----------------|-----------------|
| IPAGN09 | M4 x 40 Ø9  | 53,057 | 20       | 80              | 40              | 640             |
| IPAGN12 | M5 x 45 Ø12 | 72,692 | 25       | 40              | 20              | 320             |

IPA-GN

Hook



02 Technical info P. 405

MULTI-MATERIAL



| CODE   | SIZE        | €/100  | WASHER Ø | MIN. ORDER QTY. | MIN. ORDER QTY. | MIN. ORDER QTY. |
|--------|-------------|--------|----------|-----------------|-----------------|-----------------|
| IPAA09 | M4 x 40 Ø9  | 52,947 | 20       | 80              | 40              | 640             |
| IPAA12 | M5 x 45 Ø12 | 72,409 | 25       | 40              | 20              | 320             |

IPA-AR

Eye bolt



02 Technical info P. 405

MULTI-MATERIAL



| CODE   | SIZE        | €/100  | WASHER Ø | MIN. ORDER QTY. | MIN. ORDER QTY. | MIN. ORDER QTY. |
|--------|-------------|--------|----------|-----------------|-----------------|-----------------|
| IPAT09 | M4 x 40 Ø9  | 41,573 | 20       | 140             | 70              | 1.120           |
| IPAT12 | M5 x 45 Ø12 | 56,918 | 25       | 70              | 35              | 560             |

IPA-TO

Screw



Plastic plug (polypropylene)

TA-PL

02 Technical info P. 405

MULTI-MATERIAL



| CODE    | SIZE        | €/100 | MIN. ORDER QTY. | MIN. ORDER QTY. | MIN. ORDER QTY. |
|---------|-------------|-------|-----------------|-----------------|-----------------|
| TACOP05 | 5 x 21 Ø5   | 1,847 | 1.000           | 25              | 1.000           |
| TACOP06 | 6 x 22 Ø6   | 2,073 | 1.000           | 25              | 1.000           |
| TACOP07 | 7 x 23 Ø7   | 2,287 | 1.000           | 25              | 1.000           |
| TACOP08 | 8 x 27 Ø8   | 2,477 | 1.000           | 25              | 1.000           |
| TACOP09 | 9 x 30 Ø9   | 3,487 | 1.000           | 25              | 1.000           |
| TACOP10 | 10 x 35 Ø10 | 4,463 | 1.000           | 25              | 1.000           |
| TACOP11 | 10 x 43 Ø10 | 6,873 | 500             | 25              | 500             |
| TACOP12 | 12 x 45 Ø12 | 6,883 | 500             | 25              | 500             |
| TACOP14 | 14 x 48 Ø14 | 9,370 | 500             | 25              | 500             |









# FIXINGS AND ACCESSORIES FOR THERMAL INSULATION SYSTEMS (ETICS)



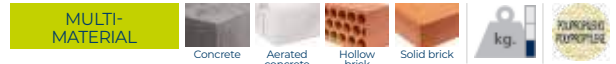
**INDEX**  
A PERFECT FIXING

# AIS-C

Fixing plug for insulation panels. Plug with polyamide nail. ETA Assessed



02 Technical info P. 402



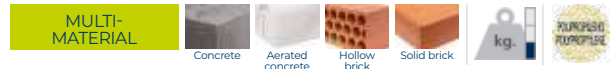
| CODE      | SIZE      | €/100  | THICKNESS MAX. FIXTURE | MIN. ORDER QTY. |     |
|-----------|-----------|--------|------------------------|-----------------|-----|
| AISC10070 | Ø10 x 70  | 21,620 | 20                     | 200             | 200 |
| AISC10090 | Ø10 x 90  | 23,337 | 40                     | 200             | 200 |
| AISC10100 | Ø10 x 100 | 24,203 | 50                     | -               | 200 |
| AISC10120 | Ø10 x 120 | 27,467 | 70                     | -               | 200 |
| AISC10140 | Ø10 x 140 | 30,837 | 90                     | -               | 200 |
| AISC10160 | Ø10 x 160 | 33,357 | 110                    | -               | 200 |
| AISC10180 | Ø10 x 180 | 37,527 | 130                    | -               | 200 |
| AISC10200 | Ø10 x 200 | 49,590 | 150                    | -               | 200 |
| AISC10220 | Ø10 x 220 | 53,500 | 170                    | -               | 200 |
| AISC10260 | Ø10 x 260 | 60,103 | 210                    | -               | 100 |

# AIS-S

Fixing plug for insulation panels. Plug with metallic nail and polyamide cap. ETA Assessed



02 Technical info P. 403



| CODE      | SIZE      | €/100   | THICKNESS MAX. FIXTURE |     |
|-----------|-----------|---------|------------------------|-----|
| AISS10070 | Ø10 x 70  | 47,560  | 20                     | 200 |
| AISS10090 | Ø10 x 90  | 53,670  | 40                     | 200 |
| AISS10100 | Ø10 x 100 | 58,087  | 50                     | 200 |
| AISS10120 | Ø10 x 120 | 65,927  | 70                     | 200 |
| AISS10140 | Ø10 x 140 | 74,013  | 90                     | 200 |
| AISS10160 | Ø10 x 160 | 80,057  | 110                    | 200 |
| AISS10180 | Ø10 x 180 | 86,313  | 130                    | 200 |
| AISS10200 | Ø10 x 200 | 99,183  | 150                    | 200 |
| AISS10220 | Ø10 x 220 | 107,003 | 170                    | 200 |
| AISS10260 | Ø10 x 260 | 120,203 | 210                    | 200 |

# AIS

Fixing plug for insulation panels



02 Technical info P. 403



| CODE     | SIZE     | €/100  | THICKNESS MAX. FIXTURE |     |     |
|----------|----------|--------|------------------------|-----|-----|
| AIS08080 | Ø8 x 80  | 20,343 | 50                     | 100 | 200 |
| AIS08100 | Ø8 x 100 | 23,397 | 70                     | 100 | -   |
| AIS08120 | Ø8 x 110 | 25,960 | 80                     | 100 | -   |
| AIS08140 | Ø8 x 130 | 26,583 | 100                    | 100 | -   |

# AIS-R

Fixing plug for insulation panels. Support washer



02 Technical info P. 403



| CODE    | SIZE | €/100  |     |
|---------|------|--------|-----|
| AISR140 | Ø140 | 37,723 | 200 |

Fixing plug for insulation panels. Washer for use with screw

AIS-W

02 Technical info P. 403

MULTI-MATERIAL



High-Density ETICS

| CODE    | SIZE | €/100  | 500 |
|---------|------|--------|-----|
| AISW060 | Ø60  | 19,133 | 500 |



Metallic fixing plug for insulation panels

AIS-M

02 Technical info P. 403

MULTI-MATERIAL



Concrete

| CODE      | SIZE     | €/100   | THICKNESS MAX. FIXTURE | 250 |
|-----------|----------|---------|------------------------|-----|
| AISM08090 | Ø8 x 90  | 30,323  | 50                     | 250 |
| AISM08110 | Ø8 x 110 | 35,650  | 70                     | 250 |
| AISM08120 | Ø8 x 120 | 36,823  | 80                     | 250 |
| AISM08140 | Ø8 x 140 | 41,333  | 100                    | 250 |
| AISM08170 | Ø8 x 170 | 49,550  | 130                    | 250 |
| AISM08200 | Ø8 x 200 | 63,990  | 160                    | 250 |
| AISM08250 | Ø8 x 250 | 75,087  | 210                    | 250 |
| AISM08300 | Ø8 x 300 | 123,100 | 260                    | 250 |



Whaser for metallic fixing plug for insulation panels.

AIS-AM

02 Technical info P. 403

MULTI-MATERIAL



Low-Density ETICS

| CODE     | SIZE | €/100  | 250 |
|----------|------|--------|-----|
| AISAM085 | Ø85  | 92,690 | 250 |



Spiral anchor for fixing on insulating panels

TE

02 Technical info P. 403

MULTI-MATERIAL



High-Density ETICS

| CODE    | SIZE    | €/100   | 50 | 600 |
|---------|---------|---------|----|-----|
| TE25050 | 25 x 50 | 72,833  | 50 | 600 |
| TE25090 | 25 x 90 | 123,823 | 25 | 300 |









# FIXINGS FOR HOLLOW MATERIALS

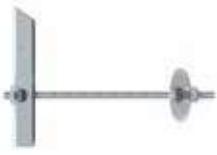


# BA-NO

Gravity toggle for fixing lightweight in ceilings

## BA-ES

Projecting bolt



02 Technical info P. 406

HOLLOWES



| CODE    | SIZE   | €/100   | MIN. ORDER QTY. |    |     |
|---------|--------|---------|-----------------|----|-----|
| BAESM04 | M4 Ø14 | 59,517  | 100             | 50 | 300 |
| BAESM05 | M5 Ø14 | 65,423  | 100             | 50 | 300 |
| BAESM06 | M6 Ø16 | 85,093  | 100             | 50 | 200 |
| BAESM08 | M8 Ø20 | 139,957 | 50              | 50 | 200 |

Blister

| CODE      | SIZE   | €/BAG | PCS | BAGS |
|-----------|--------|-------|-----|------|
| BZBAESM04 | M4 Ø14 | 3,071 | 2   | 12   |
| BZBAESM05 | M5 Ø14 | 3,071 | 2   | 12   |
| BZBAESM06 | M6 Ø16 | 3,071 | 2   | 10   |

Window box

| CODE     | SIZE   | €/BOX | PCS | BOXES |
|----------|--------|-------|-----|-------|
| VBAESM04 | M4 Ø14 | 5,247 | 6   | 8     |
| VBAESM05 | M5 Ø14 | 5,403 | 6   | 8     |
| VBAESM06 | M6 Ø16 | 4,690 | 4   | 8     |

Self-service

| CODE      | SIZE   | €/BAG | PCS | BAGS |
|-----------|--------|-------|-----|------|
| LSBAESM04 | M4 Ø14 | 5,100 | 6   | 6    |
| LSBAESM05 | M5 Ø14 | 5,247 | 6   | 6    |
| LSBAESM06 | M6 Ø16 | 4,558 | 4   | 6    |

ALSO AVAILABLE  
**easykits**

## BA-GA

Hook



02 Technical info P. 406

HOLLOWES



| CODE    | SIZE   | €/100   | MIN. ORDER QTY. |    |     |
|---------|--------|---------|-----------------|----|-----|
| BAGAM04 | M4 Ø14 | 61,903  | 100             | 50 | 300 |
| BAGAM05 | M5 Ø14 | 69,513  | 100             | 50 | 300 |
| BAGAM06 | M6 Ø16 | 86,870  | 100             | 50 | 200 |
| BAGAM08 | M8 Ø20 | 145,310 | 50              | 50 | 150 |

Blister

| CODE      | SIZE   | €/BAG | PCS | BAGS |
|-----------|--------|-------|-----|------|
| BZBAGAM04 | M4 Ø14 | 3,071 | 2   | 12   |
| BZBAGAM05 | M5 Ø14 | 3,071 | 2   | 12   |
| BZBAGAM06 | M6 Ø16 | 3,071 | 2   | 10   |

Window box

| CODE     | SIZE   | €/BOX | PCS | BOXES |
|----------|--------|-------|-----|-------|
| VBAGAM04 | M4 Ø14 | 5,282 | 6   | 8     |
| VBAGAM05 | M5 Ø14 | 5,691 | 6   | 8     |
| VBAGAM06 | M6 Ø16 | 4,766 | 4   | 8     |

Self-service

| CODE      | SIZE   | €/BAG | PCS | BAGS |
|-----------|--------|-------|-----|------|
| LSBAGAM04 | M4 Ø14 | 5,136 | 6   | 6    |
| LSBAGAM05 | M5 Ø14 | 5,529 | 6   | 6    |
| LSBAGAM06 | M6 Ø16 | 4,630 | 4   | 6    |

ALSO AVAILABLE  
**easykits**

## CA-BA

Toggle head



Window box

| CODE     | SIZE   | €/BOX | PCS | BOXES |
|----------|--------|-------|-----|-------|
| VCABA004 | M4 Ø14 | 8,030 | 20  | 8     |
| VCABA005 | M5 Ø14 | 8,965 | 20  | 8     |
| VCABA006 | M6 Ø16 | 7,726 | 15  | 8     |

Self-service

| CODE      | SIZE   | €/BAG | PCS | BAGS |
|-----------|--------|-------|-----|------|
| LSCABA004 | M4 Ø14 | 8,071 | 20  | 6    |
| LSCABA005 | M5 Ø14 | 8,703 | 20  | 6    |
| LSCABA006 | M6 Ø16 | 7,617 | 15  | 7    |

HOLLOWES

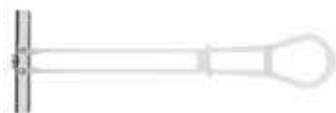


| CODE    | SIZE   | €/100  |     |       |
|---------|--------|--------|-----|-------|
| CABA004 | M4 Ø14 | 30,687 | 100 | 1,200 |
| CABA005 | M5 Ø14 | 33,593 | 100 | 1,200 |
| CABA006 | M6 Ø16 | 39,170 | 100 | 600   |
| CABA008 | M8 Ø20 | 68,107 | 100 | 400   |

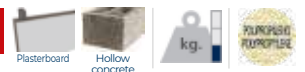
ALSO AVAILABLE  
**easykits**

## NEW BA-NY

Nylon



HOLLOWES



| CODE    | SIZE   | €/100   |    |     |
|---------|--------|---------|----|-----|
| BANYM05 | M5 Ø13 | 123,500 | 25 | 100 |
| BANYM06 | M6 Ø13 | 123,500 | 25 | 100 |


## Spring toggle

## PA-LO

02 Technical info P. 406

HOLLOWES



| CODE    | SIZE   | €/100          | MIN. ORDER QTY. |  |  |
|---------|--------|----------------|-----------------|---|---|
| PAESM04 | M4 Ø12 | <b>48,407</b>  | 100             | 50  | 300   |
| PAESM05 | M5 Ø15 | <b>53,627</b>  | 100             | 50  | 300   |
| PAESM06 | M6 Ø18 | <b>66,873</b>  | 100             | 50  | 200   |
| PAESM08 | M8 Ø22 | <b>119,037</b> | 50              | 50  | 150   |

 Blister

| CODE      | SIZE   | €/BAG        | PCS BAG | BAGS |
|-----------|--------|--------------|---------|------|
| BZPAESM04 | M4 Ø12 | <b>3,071</b> | 2       | 12   |
| BZPAESM05 | M5 Ø15 | <b>3,071</b> | 2       | 12   |
| BZPAESM06 | M6 Ø18 | <b>3,071</b> | 2       | 10   |

 Window box

| CODE     | SIZE   | €/BOX        | PCS BOX | BOXES |
|----------|--------|--------------|---------|-------|
| VPAESM04 | M4 Ø12 | <b>4,177</b> | 6       | 8     |
| VPAESM05 | M5 Ø15 | <b>4,724</b> | 6       | 8     |
| VPAESM06 | M6 Ø18 | <b>4,002</b> | 4       | 8     |

 Self-service

| CODE      | SIZE   | €/BAG        | PCS BAG | BAGS |
|-----------|--------|--------------|---------|------|
| LSPAESM04 | M4 Ø12 | <b>4,025</b> | 6       | 6    |
| LSPAESM05 | M5 Ø15 | <b>4,590</b> | 6       | 6    |
| LSPAESM06 | M6 Ø18 | <b>3,854</b> | 4       | 6    |

## PA-ES


Projecting bolt



02 Technical info P. 406

HOLLOWES



| CODE    | SIZE   | €/100          | MIN. ORDER QTY. |  |  |
|---------|--------|----------------|-----------------|---|---|
| PAGAM04 | M4 Ø12 | <b>49,360</b>  | 100             | 50  | 300   |
| PAGAM05 | M5 Ø15 | <b>56,357</b>  | 100             | 50  | 300   |
| PAGAM06 | M6 Ø18 | <b>79,200</b>  | 100             | 50  | 200   |
| PAGAM08 | M8 Ø22 | <b>132,970</b> | 50              | 50  | 150   |

 Blister

| CODE      | SIZE   | €/BAG        | PCS BAG | BAGS |
|-----------|--------|--------------|---------|------|
| BZPAGAM04 | M4 Ø12 | <b>3,071</b> | 2       | 12   |
| BZPAGAM05 | M5 Ø15 | <b>3,071</b> | 2       | 12   |
| BZPAGAM06 | M6 Ø18 | <b>3,071</b> | 2       | 10   |

 Window box

| CODE     | SIZE   | €/BOX        | PCS BOX | BOXES |
|----------|--------|--------------|---------|-------|
| VPAGAM04 | M4 Ø12 | <b>4,028</b> | 6       | 8     |
| VPAGAM05 | M5 Ø15 | <b>4,686</b> | 6       | 8     |
| VPAGAM06 | M6 Ø18 | <b>4,215</b> | 4       | 8     |

 Self-service

| CODE      | SIZE   | €/BAG        | PCS BAG | BAGS |
|-----------|--------|--------------|---------|------|
| LSPAGAM04 | M4 Ø12 | <b>4,224</b> | 6       | 6    |
| LSPAGAM05 | M5 Ø15 | <b>4,804</b> | 6       | 6    |
| LSPAGAM06 | M6 Ø18 | <b>4,515</b> | 4       | 6    |

## PA-GA

Hook



02 Technical info P. 406

HOLLOWES



| CODE    | SIZE   | €/100         |  |  |
|---------|--------|---------------|---|--|
| CAPA004 | M4 Ø12 | <b>18,923</b> | 100   | 2.400  |
| CAPA005 | M5 Ø15 | <b>21,917</b> | 100   | 1.200  |
| CAPA006 | M6 Ø18 | <b>25,810</b> | 100   | 600  |
| CAPA008 | M8 Ø22 | <b>57,993</b> | 100   | 400  |

 Window box

| CODE     | SIZE   | €/BOX        | PCS BOX | BOXES |
|----------|--------|--------------|---------|-------|
| VCAPA004 | M4 Ø12 | <b>6,223</b> | 24      | 8     |
| VCAPA005 | M5 Ø15 | <b>6,130</b> | 20      | 8     |
| VCAPA006 | M6 Ø18 | <b>5,631</b> | 15      | 8     |

 Self-service

| CODE      | SIZE   | €/BAG        | PCS BAG | BAGS |
|-----------|--------|--------------|---------|------|
| LSCAPA004 | M4 Ø12 | <b>6,104</b> | 24      | 8    |
| LSCAPA005 | M5 Ø15 | <b>6,016</b> | 20      | 7    |
| LSCAPA006 | M6 Ø18 | <b>5,310</b> | 15      | 7    |

## CA-PA

Spring toggle head





# IN

## Indemoll anchor for hollow elements fixing

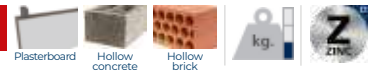
### IN-CO



With panhead screw



 **Technical info**  
P. 406

**HOLLOWES**



| CODE    | SIZE         | €/100         | THICKNESS MAX. FIXTURE |  |  |
|---------|--------------|---------------|------------------------|---|---|
| INCO421 | M4 x 30 Ø 8  | <b>25,153</b> | 17 -hmin               | 100   | 2.400   |
| INCO432 | M4 x 41 Ø 8  | <b>25,557</b> | 22 -hmin               | 100   | 1.200   |
| INCO438 | M4 x 47 Ø 8  | <b>27,767</b> | 30 -hmin               | 100   | 1.200   |
| INCO446 | M4 x 53 Ø 8  | <b>30,203</b> | 33 -hmin               | 100   | 1.200   |
| INCO459 | M4 x 67 Ø 8  | <b>34,087</b> | 52 -hmin               | 100   | 1.200   |
| INCO537 | M5 x 46 Ø 10 | <b>35,080</b> | 26 -hmin               | 100   | 1.200   |
| INCO552 | M5 x 59 Ø 10 | <b>37,613</b> | 42 -hmin               | 100   | 600   |
| INCO565 | M5 x 72 Ø 10 | <b>44,653</b> | 55 -hmin               | 100   | 600   |
| INCO580 | M5 x 89 Ø 10 | <b>50,073</b> | 61 -hmin               | 100   | 600   |
| INCO637 | M6 x 46 Ø 12 | <b>39,997</b> | 25 -hmin               | 100   | 1.200   |
| INCO652 | M6 x 59 Ø 12 | <b>46,460</b> | 38 -hmin               | 100   | 600   |
| INCO665 | M6 x 72 Ø 12 | <b>51,773</b> | 49 -hmin               | 100   | 600   |
| INCO680 | M6 x 89 Ø 12 | <b>67,987</b> | 78 -hmin               | 100   | 600   |

 **Blister**

| CODE      | SIZE         | €/BAG        | PCS | BAGS |
|-----------|--------------|--------------|-----|------|
| BZINCO432 | M4 x 41 Ø 8  | <b>2,302</b> | 2   | 20   |
| BZINCO438 | M4 x 47 Ø 8  | <b>2,302</b> | 2   | 20   |
| BZINCO537 | M5 x 46 Ø 10 | <b>2,302</b> | 2   | 20   |
| BZINCO552 | M5 x 59 Ø 10 | <b>2,302</b> | 2   | 15   |
| BZINCO565 | M5 x 72 Ø 10 | <b>2,302</b> | 2   | 15   |
| BZINCO637 | M6 x 46 Ø 12 | <b>2,302</b> | 2   | 15   |
| BZINCO652 | M6 x 59 Ø 12 | <b>2,302</b> | 2   | 15   |

 **Window box**

| CODE     | SIZE         | €/BOX        | PCS | BOXES |
|----------|--------------|--------------|-----|-------|
| VINCO432 | M4 x 41 Ø 8  | <b>5,004</b> | 15  | 8     |
| VINCO438 | M4 x 47 Ø 8  | <b>5,408</b> | 15  | 8     |
| VINCO446 | M4 x 53 Ø 8  | <b>5,925</b> | 15  | 8     |
| VINCO537 | M5 x 46 Ø 10 | <b>6,881</b> | 15  | 8     |
| VINCO552 | M5 x 59 Ø 10 | <b>5,902</b> | 12  | 8     |
| VINCO637 | M6 x 46 Ø 12 | <b>5,199</b> | 10  | 8     |
| VINCO652 | M6 x 59 Ø 12 | <b>6,049</b> | 10  | 8     |

 **Self-service**

| CODE      | SIZE         | €/BAG         | PCS | BAGS |
|-----------|--------------|---------------|-----|------|
| LSINCO432 | M4 x 41 Ø 8  | <b>8,850</b>  | 30  | 6    |
| LSINCO438 | M4 x 47 Ø 8  | <b>9,615</b>  | 30  | 6    |
| LSINCO446 | M4 x 53 Ø 8  | <b>10,460</b> | 30  | 6    |
| LSINCO537 | M5 x 46 Ø 10 | <b>10,123</b> | 25  | 6    |
| LSINCO552 | M5 x 59 Ø 10 | <b>7,813</b>  | 18  | 7    |
| LSINCO637 | M6 x 46 Ø 12 | <b>9,233</b>  | 20  | 7    |
| LSINCO652 | M6 x 59 Ø 12 | <b>8,045</b>  | 15  | 7    |

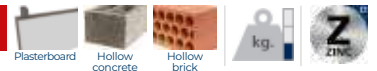
### IN-HE



With hexagonal-head screw



 **Technical info**  
P. 407

**HOLLOWES**



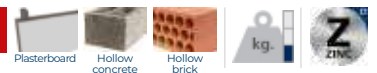
| CODE    | SIZE         | €/100          | THICKNESS MAX. FIXTURE |  |  |
|---------|--------------|----------------|------------------------|---|---|
| INHE837 | M8 x 45 Ø 14 | <b>90,600</b>  | 25 -hmin               | 100   | 600   |
| INHE855 | M8 x 60 Ø 14 | <b>104,213</b> | 36 -hmin               | 100   | 400   |
| INHE865 | M8 x 73 Ø 14 | <b>124,083</b> | 47 -hmin               | 100   | 400   |



### IN-SI

Without screw



**HOLLOWES**





| CODE    | SIZE         | €/100         | THICKNESS MAX. FIXTURE |  |  |
|---------|--------------|---------------|------------------------|---|---|
| INSI421 | M4 x 21 Ø 8  | <b>19,347</b> | 17 -hmin               | 100   | 2.400   |
| INSI432 | M4 x 32 Ø 8  | <b>21,060</b> | 22 -hmin               | 100   | 2.400   |
| INSI438 | M4 x 38 Ø 8  | <b>22,893</b> | 30 -hmin               | 100   | 2.400   |
| INSI537 | M5 x 37 Ø 10 | <b>27,027</b> | 26 -hmin               | 100   | 1.200   |
| INSI552 | M5 x 52 Ø 10 | <b>31,687</b> | 42 -hmin               | 100   | 600   |
| INSI565 | M5 x 65 Ø 10 | <b>35,143</b> | 55 -hmin               | 100   | 600   |
| INSI637 | M6 x 37 Ø 12 | <b>32,757</b> | 25 -hmin               | 100   | 1.200   |
| INSI652 | M6 x 52 Ø 12 | <b>40,003</b> | 38 -hmin               | 100   | 600   |
| INSI665 | M6 x 65 Ø 12 | <b>44,820</b> | 49 -hmin               | 100   | 600   |
| INSI865 | M8 x 65 Ø 14 | <b>77,867</b> | 47 -hmin               | 100   | 400   |

Indemoll anchor for hollow elements fixing

IN

HOLLOWS



| CODE      | €/100     |  |  |
|-----------|-----------|---|--|
| INPINZANI | 1.278,387 | 1   | 20   |

INPIN

Pliers



HOLLOWS



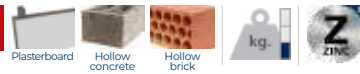
| CODE      | €/100     |  |  |
|-----------|-----------|---|--|
| INPISANIN | 3.131,017 | 1   | 10   |


INPIS

Gun



HOLLOWS



| CODE       | CONTENT   | SIZE CONTENT | PCS X KIT | €/KIT  | KITS X  |
|------------|-----------|--------------|-----------|--------|--|
| KITINPINO1 | INPINZANI | -            | 1         | 42,218 | 1  |
|            | INCO432   | M4 x 41 Ø 8  | 20        |        |  |
|            | INCO537   | M5 x 46 Ø 10 | 20        |        |  |

KITINPIN

Drywall kit





## ANCLA

Nylon plug for hollow bricks and plasterboard

Technical info  
P. 407

HOLLOWS

Hollow  
concreteHollow  
brick

Plasterboard



Nylon



| CODE    | SIZE        | €/100  | MIN. ORDER QTY. |     |     |
|---------|-------------|--------|-----------------|-----|-----|
| ANCLA40 | 10 x 40 Ø10 | 10,543 | 200             | 100 | 600 |
| ANCLA47 | 10 x 47 Ø10 | 12,320 | 200             | 100 | 600 |



Blister

| CODE      | SIZE        | €/BAG | PCS<br>BAG | BAGS |
|-----------|-------------|-------|------------|------|
| BZANCLA40 | 10 x 40 Ø10 | 2,302 | 4          | 12   |
| BZANCLA47 | 10 x 47 Ø10 | 2,302 | 4          | 12   |

## TAPLA

Plugs for plasterboard

## TAPLA NY

Nylon plug

Technical info  
P. 407

HOLLOWS



Plasterboard



Nylon



| CODE    | SIZE    | SUITABLE FOR                      | €/100W |         | MIN. SUBSTRATE THICKNESS | MIN. ORDER QTY. |     |       |
|---------|---------|-----------------------------------|--------|---------|--------------------------|-----------------|-----|-------|
| TAPLANY | 15 x 33 | TPPO 4,5 x 40 / DIN-7981 4,2 x 38 | 12,200 | PH2/PH3 | 9-16                     | 200             | 100 | 1.600 |



Blister

| CODE      | SIZE    | €/BAG | PCS<br>BAG | BAGS |
|-----------|---------|-------|------------|------|
| BZTAPLANY | 15 x 33 | 2,302 | 4          | 15   |

## TAPLA ME

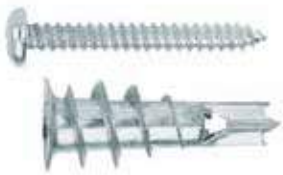
Zamak plug with DIN 7981 4,2 x 32

Technical info  
P. 407

HOLLOWS



Plasterboard

Zk  
ZAMAK

| CODE    | SIZE    | SUITABLE FOR      | €/100  |         | MIN. SUBSTRATE THICKNESS | MIN. ORDER QTY. |     |       |
|---------|---------|-------------------|--------|---------|--------------------------|-----------------|-----|-------|
| TAPLAME | 13 x 32 | DIN-7981 4,2 x 32 | 27,363 | PH2/PH3 | 9-16                     | 200             | 100 | 1.600 |



Blister

| CODE      | SIZE    | €/BAG | PCS<br>BAG | BAGS |
|-----------|---------|-------|------------|------|
| BZTAPLAME | 13 x 32 | 3,071 | 4          | 15   |

## TAPLA ZK

Zamak plug

Technical info  
P. 407

HOLLOWS



Plasterboard

Zk  
ZAMAK

| CODE    | SIZE    | SUITABLE FOR                      | €/100  |     | MIN. SUBSTRATE THICKNESS | MIN. ORDER QTY. |     |       |
|---------|---------|-----------------------------------|--------|-----|--------------------------|-----------------|-----|-------|
| TAPLAZK | 13 x 37 | TPPO 4,5 x 50 / DIN-7981 4,2 x 38 | 29,970 | PH3 | 9-16                     | 200             | 100 | 1.600 |

# RIVETS







# RE

## Rivets

### RE-NO

Panhead. Aluminium



| CODE     | SIZE     | €/100         | DRILL Ø | THICKNESS MAX. FIXTURE |  |  |
|----------|----------|---------------|---------|------------------------|---|---|
| RENO3206 | 3,2 x 6  | <b>4,137</b>  | 3,3     | 1-3                    | 500   | 12.000  |
| RENO3208 | 3,2 x 8  | <b>4,397</b>  | 3,3     | 3-5                    | 500   | 12.000  |
| RENO3210 | 3,2 x 10 | <b>4,850</b>  | 3,3     | 5-7                    | 500   | 6.000   |
| RENO3212 | 3,2 x 12 | <b>5,203</b>  | 3,3     | 7-9                    | 500   | 6.000   |
| RENO3214 | 3,2 x 14 | <b>5,650</b>  | 3,3     | 9-11                   | 500   | 6.000   |
| RENO3216 | 3,2 x 16 | <b>6,257</b>  | 3,3     | 11-13                  | 500   | 6.000   |
| RENO3218 | 3,2 x 18 | <b>7,233</b>  | 3,3     | 13-15                  | 500   | 6.000   |
| RENO4006 | 4 x 6    | <b>4,583</b>  | 4,1     | 0,5-2                  | 500   | 6.000   |
| RENO4008 | 4 x 8    | <b>4,937</b>  | 4,1     | 2-4                    | 500   | 6.000   |
| RENO4010 | 4 x 10   | <b>5,700</b>  | 4,1     | 4-6                    | 500   | 6.000   |
| RENO4012 | 4 x 12   | <b>6,227</b>  | 4,1     | 6-8                    | 500   | 6.000   |
| RENO4014 | 4 x 14   | <b>7,030</b>  | 4,1     | 8-10                   | 500   | 6.000   |
| RENO4016 | 4 x 16   | <b>7,340</b>  | 4,1     | 10-12                  | 500   | 6.000   |
| RENO4018 | 4 x 18   | <b>7,843</b>  | 4,1     | 12-14                  | 500   | 3.000   |
| RENO4020 | 4 x 20   | <b>8,103</b>  | 4,1     | 14-16                  | 500   | 6.000   |
| RENO4025 | 4 x 25   | <b>10,550</b> | 4,1     | 16-18                  | 250   | 3.000   |
| RENO4030 | 4 x 30   | <b>12,280</b> | 4,1     | 23-16                  | 250   | 3.000   |
| RENO4035 | 4 x 35   | <b>15,393</b> | 4,1     | 26-30                  | 250   | 3.000   |
| RENO4806 | 4,8 x 6  | <b>6,013</b>  | 5       | 0,5-1,5                | 500   | 6.000   |
| RENO4808 | 4,8 x 8  | <b>7,083</b>  | 5       | 1,5-3,5                | 500   | 6.000   |
| RENO4810 | 4,8 x 10 | <b>7,443</b>  | 5       | 3,5-5,5                | 500   | 3.000   |
| RENO4812 | 4,8 x 12 | <b>7,843</b>  | 5       | 5,5-7,5                | 500   | 3.000   |
| RENO4814 | 4,8 x 14 | <b>8,980</b>  | 5       | 7,5-9,5                | 250   | 3.000   |
| RENO4816 | 4,8 x 16 | <b>9,740</b>  | 5       | 9,5-11,5               | 250   | 3.000   |
| RENO4818 | 4,8 x 18 | <b>11,117</b> | 5       | 11,5-13,5              | 250   | 3.000   |
| RENO4820 | 4,8 x 20 | <b>11,970</b> | 5       | 13,5-15                | 250   | 3.000   |
| RENO4822 | 4,8 x 22 | <b>13,143</b> | 5       | 15-17                  | 200   | 2.400   |
| RENO4824 | 4,8 x 24 | <b>13,350</b> | 5       | 17-19                  | 200   | 2.400   |
| RENO4826 | 4,8 x 26 | <b>14,330</b> | 5       | 19-21                  | 200   | 2.400   |
| RENO4828 | 4,8 x 28 | <b>15,243</b> | 5       | 21-23                  | 200   | 2.400   |
| RENO4830 | 4,8 x 30 | <b>16,097</b> | 5       | 23-25                  | 200   | 2.400   |
| RENO4835 | 4,8 x 35 | <b>17,693</b> | 5       | 25-30                  | 150   | 1.800   |
| RENO6008 | 6 x 8    | <b>16,560</b> | 6,1     | 1-2                    | 250   | 3.000   |
| RENO6010 | 6 x 10   | <b>15,597</b> | 6,1     | 2-4                    | 250   | 3.000   |
| RENO6012 | 6 x 12   | <b>16,010</b> | 6,1     | 3-6                    | 250   | 3.000   |
| RENO6018 | 6 x 18   | <b>18,237</b> | 6,1     | 6-10                   | 200   | 1.200   |
| RENO6025 | 6 x 25   | <b>22,470</b> | 6,1     | 10-12                  | 200   | 1.200   |
| RENO6016 | 6 x 16   | <b>17,540</b> | 6,1     | 15-19                  | 250   | 1.500   |

#### Blister

| CODE       | SIZE     | €/BAG        | PCS BAG | BAGS |
|------------|----------|--------------|---------|------|
| BZRENO3208 | 3,2 x 8  | <b>1,820</b> | 15      | 20   |
| BZRENO3210 | 3,2 x 10 | <b>1,820</b> | 15      | 20   |
| BZRENO4008 | 4 x 8    | <b>1,820</b> | 15      | 20   |
| BZRENO4010 | 4 x 10   | <b>1,820</b> | 15      | 20   |
| BZRENO4012 | 4 x 12   | <b>1,820</b> | 15      | 20   |
| BZRENO4016 | 4 x 16   | <b>1,820</b> | 15      | 20   |
| BZRENO4810 | 4,8 x 10 | <b>1,820</b> | 15      | 20   |
| BZRENO4812 | 4,8 x 12 | <b>1,820</b> | 15      | 20   |
| BZRENO4816 | 4,8 x 16 | <b>1,820</b> | 8       | 20   |
| BZRENO4820 | 4,8 x 20 | <b>1,820</b> | 8       | 20   |
| BZRENO4824 | 4,8 x 24 | <b>1,820</b> | 8       | 20   |

#### Window box

| CODE      | SIZE     | €/BOX        | PCS BOX | BOXES |
|-----------|----------|--------------|---------|-------|
| VRENO3206 | 3,2 x 6  | <b>2,539</b> | 50      | 8     |
| VRENO3208 | 3,2 x 8  | <b>2,520</b> | 50      | 8     |
| VRENO3210 | 3,2 x 10 | <b>2,784</b> | 50      | 8     |
| VRENO3212 | 3,2 x 12 | <b>3,128</b> | 50      | 8     |
| VRENO3214 | 3,2 x 14 | <b>3,246</b> | 50      | 8     |
| VRENO3218 | 3,2 x 18 | <b>4,111</b> | 50      | 8     |
| VRENO4006 | 4 x 6    | <b>2,793</b> | 50      | 8     |
| VRENO4008 | 4 x 8    | <b>2,805</b> | 50      | 8     |
| VRENO4010 | 4 x 10   | <b>3,246</b> | 50      | 8     |
| VRENO4012 | 4 x 12   | <b>3,541</b> | 50      | 8     |
| VRENO4014 | 4 x 14   | <b>4,002</b> | 50      | 8     |
| VRENO4016 | 4 x 16   | <b>4,173</b> | 50      | 8     |
| VRENO4018 | 4 x 18   | <b>4,458</b> | 50      | 8     |
| VRENO4020 | 4 x 20   | <b>4,608</b> | 50      | 8     |
| VRENO4808 | 4,8 x 8  | <b>4,111</b> | 50      | 8     |
| VRENO4810 | 4,8 x 10 | <b>4,234</b> | 50      | 8     |
| VRENO4812 | 4,8 x 12 | <b>4,458</b> | 50      | 8     |
| VRENO4814 | 4,8 x 14 | <b>5,104</b> | 50      | 8     |
| VRENO4816 | 4,8 x 16 | <b>5,536</b> | 50      | 8     |
| VRENO4818 | 4,8 x 18 | <b>6,318</b> | 50      | 8     |
| VRENO4820 | 4,8 x 20 | <b>6,809</b> | 50      | 8     |
| VRENO4822 | 4,8 x 22 | <b>3,740</b> | 25      | 8     |
| VRENO4824 | 4,8 x 24 | <b>3,797</b> | 25      | 8     |
| VRENO4830 | 4,8 x 30 | <b>4,579</b> | 25      | 8     |
| VRENO4835 | 4,8 x 35 | <b>5,032</b> | 25      | 8     |



## Rivets

## RE

METAL



| CODE     | SIZE       | €/100  | DRILL Ø | THICKNESS MAX. FIXTURE |     |       |
|----------|------------|--------|---------|------------------------|-----|-------|
| REIN3206 | 3,2 x 6,4  | 18,467 | 3,3     | 0,5 - 3                | 500 | 6.000 |
| REIN3208 | 3,2 x 8    | 19,757 | 3,3     | 3 - 5                  | 500 | 6.000 |
| REIN3212 | 3,2 x 12,7 | 29,113 | 3,3     | 6,5 - 8,5              | 500 | 6.000 |
| REIN3215 | 3,2 x 15,9 | 35,177 | 3,3     | 10,5 - 12,5            | 500 | 6.000 |
| REIN4008 | 4 x 8,5    | 33,163 | 4,1     | 2,5 - 4,5              | 500 | 6.000 |
| REIN4010 | 4 x 10,2   | 35,293 | 4,1     | 4,5 - 6,5              | 500 | 6.000 |
| REIN4012 | 4 x 12     | 39,997 | 4,1     | 6,5 - 8,5              | 500 | 6.000 |
| REIN4016 | 4 x 16     | 48,427 | 4,1     | 10 - 12                | 500 | 3.000 |
| REIN4810 | 4,8 x 10,8 | 48,793 | 5       | 4 - 6                  | 500 | 3.000 |
| REIN4812 | 4,8 x 12   | 53,333 | 5       | 6 - 8                  | 500 | 3.000 |
| REIN4816 | 4,8 x 16   | 65,570 | 5       | 8 - 11                 | 250 | 3.000 |
| REIN4820 | 4,8 x 20,3 | 91,997 | 5       | 11 - 13                | 250 | 3.000 |
| REIN4818 | 4,8 x 18   | 70,107 | 5       | 13 - 15                | 250 | 3.000 |

## RE-IN

Panhead. A2 Stainless steel



METAL



| CODE     | SIZE     | €/100  | DRILL Ø | THICKNESS MAX. FIXTURE |     |       |
|----------|----------|--------|---------|------------------------|-----|-------|
| RECA4008 | 4 x 8    | 7,110  | 4,1     | 2 - 4                  | 500 | 3.000 |
| RECA4010 | 4 x 10   | 7,703  | 4,1     | 4 - 6                  | 500 | 3.000 |
| RECA4012 | 4 x 12   | 9,083  | 4,1     | 6 - 8                  | 250 | 3.000 |
| RECA4016 | 4 x 16   | 10,380 | 4,1     | 10 - 12                | 250 | 3.000 |
| RECA4810 | 4,8 x 10 | 11,663 | 5       | 3,5 - 5,5              | 250 | 3.000 |
| RECA4812 | 4,8 x 12 | 12,240 | 5       | 5,5 - 7,5              | 250 | 3.000 |
| RECA4814 | 4,8 x 14 | 13,290 | 5       | 7,5 - 9,5              | 250 | 3.000 |
| RECA4816 | 4,8 x 16 | 13,930 | 5       | 9,5 - 11,5             | 250 | 1.500 |
| RECA4818 | 4,8 x 18 | 15,160 | 5       | 11,5 - 13,5            | 200 | 2.400 |

## RE-CA

Wide head. Aluminium



Blister



Window box

| CODE       | SIZE     | €/BAG | PCS BAG | BAGS | CODE      | SIZE     | €/BOX | PCS BOX | BOXES |
|------------|----------|-------|---------|------|-----------|----------|-------|---------|-------|
| BZRECA4010 | 4 x 10   | 1,820 | 8       | 15   | VRECA4010 | 4 x 10   | 4,525 | 50      | 8     |
| BZRECA4012 | 4 x 12   | 1,820 | 8       | 15   | VRECA4012 | 4 x 12   | 3,854 | 35      | 8     |
| BZRECA4016 | 4 x 16   | 1,820 | 8       | 15   | VRECA4016 | 4 x 16   | 4,320 | 35      | 8     |
| BZRECA4810 | 4,8 x 10 | 1,820 | 8       | 15   | VRECA4810 | 4,8 x 10 | 3,541 | 25      | 8     |
| BZRECA4812 | 4,8 x 12 | 1,820 | 8       | 15   | VRECA4812 | 4,8 x 12 | 3,563 | 25      | 8     |
| BZRECA4814 | 4,8 x 14 | 1,820 | 8       | 15   | VRECA4814 | 4,8 x 14 | 4,038 | 25      | 8     |
| BZRECA4816 | 4,8 x 16 | 1,820 | 8       | 15   | VRECA4816 | 4,8 x 16 | 4,218 | 25      | 8     |
| BZRECA4818 | 4,8 x 18 | 1,820 | 5       | 15   | VRECA4818 | 4,8 x 18 | 3,674 | 20      | 8     |

METAL



| CODE       | SIZE          | €/100  | DRILL Ø | THICKNESS MAX. FIXTURE |     |       |
|------------|---------------|--------|---------|------------------------|-----|-------|
| RENO3208BL | 3,2 x 8 9003  | 7,570  | 3,3     | 3,5 - 5                | 500 | 6.000 |
| RENO3210BL | 3,2 x 10 9003 | 8,003  | 3,3     | 5 - 7                  | 500 | 6.000 |
| RENO3212BL | 3,2 x 12 9003 | 8,393  | 3,3     | 7 - 9                  | 500 | 6.000 |
| RENO4008BL | 4 x 8 9003    | 9,223  | 4,1     | 3 - 5                  | 500 | 6.000 |
| RENO4010BL | 4 x 10 9003   | 9,983  | 4,1     | 5 - 6,5                | 500 | 6.000 |
| RENO4012BL | 4 x 12 9003   | 10,343 | 4,1     | 6,5 - 8,5              | 500 | 6.000 |
| RENO4014BL | 4 x 14 9003   | 11,370 | 4,1     | 8,5 - 10,5             | 500 | 6.000 |
| RENO4810BL | 4,8 x 10 9003 | 13,670 | 4,9     | 4 - 6                  | 500 | 3.000 |
| RENO4812BL | 4,8 x 12 9003 | 14,377 | 4,9     | 6 - 8                  | 500 | 3.000 |
| RENO4814BL | 4,8 x 14 9003 | 15,683 | 4,9     | 8 - 10                 | 250 | 3.000 |
| RENO4816BL | 4,8 x 16 9003 | 16,323 | 4,9     | 10 - 12                | 250 | 3.000 |

## RE-BL

White panhead. Aluminium





# RE

## Rivets

### RE-NE

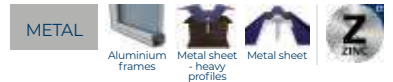
Black panhead. Aluminium





| CODE       | SIZE          | €/100         | DRILL Ø | THICKNESS MAX. FIXTURE |  |  |
|------------|---------------|---------------|---------|------------------------|---|---|
| RENO3208NE | 3,2 x 8 9005  | <b>7,570</b>  | 3,3     | 3,5 - 5                | 500   | 6.000   |
| RENO3210NE | 3,2 x 10 9005 | <b>8,003</b>  | 3,3     | 5 - 7                  | 500   | 6.000   |
| RENO3212NE | 3,2 x 12 9005 | <b>8,393</b>  | 3,3     | 7 - 9                  | 500   | 6.000   |
| RENO4008NE | 4 x 8 9005    | <b>9,223</b>  | 4,1     | 3 - 5                  | 500   | 6.000   |
| RENO4010NE | 4 x 10 9005   | <b>9,983</b>  | 4,1     | 5 - 6,5                | 500   | 6.000   |
| RENO4012NE | 4 x 12 9005   | <b>10,343</b> | 4       | 6,5 - 8,5              | 500   | 6.000   |
| RENO4014NE | 4 x 14 9005   | <b>11,370</b> | 4,1     | 8,5 - 10,5             | 500   | 6.000   |
| RENO4810NE | 4,8 x 10 9005 | <b>13,670</b> | 4,9     | 4 - 6                  | 500   | 3.000   |
| RENO4812NE | 4,8 x 12 9005 | <b>14,377</b> | 4,9     | 6 - 8                  | 500   | 3.000   |
| RENO4814NE | 4,8 x 14 9005 | <b>15,683</b> | 4,9     | 8 - 10                 | 250   | 3.000   |
| RENO4816NE | 4,8 x 16 9005 | <b>16,323</b> | 4,9     | 10 - 12                | 250   | 3.000   |

### RE-FL

Peel head



| CODE     | SIZE       | €/100         | DRILL Ø | THICKNESS MAX. FIXTURE |  |  |
|----------|------------|---------------|---------|------------------------|---|---|
| REFL4012 | 4 x 12,1   | <b>10,360</b> | 4,1     | 4 - 6,5                | 500   | 6.000   |
| REFL4014 | 4 x 13,9   | <b>11,733</b> | 4,1     | 6 - 9                  | 500   | 3.000   |
| REFL4016 | 4 x 15,7   | <b>12,297</b> | 4,1     | 8 - 11                 | 500   | 3.000   |
| REFL4018 | 4 x 17,4   | <b>12,760</b> | 4,1     | 10 - 13                | 500   | 3.000   |
| REFL4020 | 4 x 19,2   | <b>13,413</b> | 4,1     | 12 - 15                | 500   | 3.000   |
| REFL4814 | 4,8 x 14,5 | <b>15,890</b> | 5       | 4 - 8                  | 250   | 3.000   |
| REFL4816 | 4,8 x 16,3 | <b>16,797</b> | 5       | 6 - 10                 | 250   | 3.000   |
| REFL4830 | 4,8 x 30   | <b>25,843</b> | 5       | 19 - 24                | 200   | 1.200   |
| REFL4835 | 4,8 x 35   | <b>29,927</b> | 5       | 24 - 29                | 150   | 1.800   |
| REFL4840 | 4,8 x 40   | <b>34,660</b> | 5       | 29 - 34                | 150   | 1.800   |
| REFL4845 | 4,8 x 45   | <b>42,033</b> | 5       | -                      | 150   | 900   |
| REFL4850 | 4,8 x 50   | <b>45,917</b> | 5       | -                      | 150   | 900   |
| REFL4818 | 4,8 x 18   | <b>19,083</b> | 5       | 8 - 12                 | 250   | 3.000   |
| REFL4824 | 4,8 x 24   | <b>22,517</b> | 5       | 15 - 18                | 200   | 2.400   |
| REFL4025 | 4 x 25     | <b>17,207</b> | 4,1     | 15 - 20                | 250   | 3.000   |

#### Blister

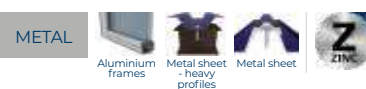
| CODE       | SIZE     | €/BAG        | PCS PER BAG | BAGS |
|------------|----------|--------------|-------------|------|
| BZREFL4835 | 4,8 x 35 | <b>1,820</b> | 5           | 20   |

#### Window box

| CODE      | SIZE     | €/BOX        | PCS | BOXES |
|-----------|----------|--------------|-----|-------|
| VREFL4835 | 4,8 x 35 | <b>8,911</b> | 25  | 8     |

## Blind rivet nuts

TR





| CODE     | SIZE     | €/100         |  |  |
|----------|----------|---------------|---|---|
| TRAV0411 | M4 x 11  | <b>15,697</b> | 500   | 12.000  |
| TRAV0513 | M5 x 13  | <b>16,833</b> | 500   | 6.000   |
| TRAV0616 | M6 x 16  | <b>21,037</b> | 500   | 3.000   |
| TRAV0819 | M8 x 19  | <b>24,620</b> | 250   | 3.000   |
| TRAV1021 | M10 x 21 | <b>37,527</b> | 250   | 1.500   |

## TR-AV

Countersunk head





| CODE     | SIZE     | €/100         |  |  |
|----------|----------|---------------|---|---|
| TRCA0310 | M3 x 10  | <b>10,937</b> | 500   | 12.000  |
| TRCA0410 | M4 x 10  | <b>22,790</b> | 500   | 12.000  |
| TRCA0411 | M4 x 11  | <b>22,790</b> | 500   | 12.000  |
| TRCA0512 | M5 x 12  | <b>24,473</b> | 500   | 12.000  |
| TRCA0515 | M5 x 15  | <b>24,473</b> | 500   | 6.000   |
| TRCA0614 | M6 x 14  | <b>30,687</b> | 250   | 3.000   |
| TRCA0616 | M6 x 16  | <b>30,687</b> | 250   | 3.000   |
| TRCA0816 | M8 x 16  | <b>22,717</b> | 250   | 3.000   |
| TRCA0818 | M8 x 18  | <b>23,503</b> | 250   | 1.500   |
| TRCA1017 | M10 x 17 | <b>37,537</b> | 250   | 1.500   |
| TRCA1022 | M10 x 22 | <b>38,850</b> | 250   | 1.500   |
| TRCA1223 | M12 x 23 | <b>62,917</b> | 250   | 1.000   |

## TR-CA

Wide head



| CODE     | SIZE     | €/100         |  |  |
|----------|----------|---------------|---|---|
| TRCR0410 | M4 x 10  | <b>22,770</b> | 500   | 12.000  |
| TRCR0511 | M5 x 11  | <b>23,007</b> | 500   | 12.000  |
| TRCR0614 | M6 x 14  | <b>28,807</b> | 250   | 6.000   |
| TRCR0815 | M8 x 15  | <b>33,537</b> | 250   | 3.000   |
| TRCR1019 | M10 x 19 | <b>35,315</b> | 250   | 1.500   |

## TR-CR

Flat head





# RM

Riveter

## RM-MA

Hand tool for blind rivets



METAL



| CODE   | SUITABLE FOR              | €/PC          |  |  |
|--------|---------------------------|---------------|---|---|
| RMMA01 | Ø2,4 / Ø3,2 / Ø4,0 / Ø4,8 | <b>26,600</b> | 1   | 40  |

## RM-PA

Long arm riveter



METAL

| CODE   | SUITABLE FOR                     | €/PC           |  |  |
|--------|----------------------------------|----------------|---|---|
| RMPA01 | Ø3,2 / Ø4,0 / Ø4,8 / Ø6,0 / Ø6,4 | <b>185,950</b> | 1   | 10  |

## RM-EX

Lazy tong riveter



METAL

| CODE   | SUITABLE FOR                     | €/PC           |  |  |
|--------|----------------------------------|----------------|---|---|
| RMEX01 | Ø3,2 / Ø4,0 / Ø4,8 / Ø6,0 / Ø6,4 | <b>173,177</b> | 1   | 5   |



# RIGGING HARDWARE

D

# SJ

## Wire rope clip DIN 741

### SJ-Z

Zinc-plated



| CODE    | METRIC         | Ø CABLE      | €/100            |     |       |
|---------|----------------|--------------|------------------|-----|-------|
| SJZ0403 | M4             | M4(Ø3)       | <b>24,793</b>    | 200 | 2.400 |
| SJZ0505 | M5             | M5(Ø5)       | <b>28,653</b>    | 200 | 1.200 |
| SJZ0506 | M5             | M5(Ø6 - 6,5) | <b>35,897</b>    | 100 | 1.200 |
| SJZ0608 | M6             | M6(Ø8)       | <b>51,640</b>    | 100 | 600   |
| SJZ0810 | M8             | M8(Ø10)      | <b>69,190</b>    | 100 | 400   |
| SJZ0811 | M8             | M8(Ø11)      | <b>88,240</b>    | 100 | 400   |
| SJZ1013 | M10            | M10(Ø13)     | <b>127,120</b>   | 50  | 150   |
| SJZ1014 | M10            | M10(Ø14)     | <b>139,403</b>   | 50  | 200   |
| SJZ1216 | M12            | M12(Ø16)     | <b>207,100</b>   | 50  | 100   |
| SJZ1220 | M12            | M12(Ø20)     | <b>262,987</b>   | 25  | 75    |
| SJZ1422 | M14            | M14(Ø22)     | <b>351,513</b>   | 15  | 45    |
| SJZ1426 | M14            | M14(Ø26)     | <b>471,583</b>   | 15  | 45    |
| SJZ1630 | M16            | M16(Ø30)     | <b>866,340</b>   | 10  | 30    |
| SJZ1634 | M16            | M16(Ø34)     | <b>1.017,707</b> | 10  | 20    |
| SJZ1640 | M16            | M16(Ø40)     | <b>1.267,863</b> | 5   | 15    |
| SJZ1845 | <b>NEW</b> M18 | M18(Ø45)     | <b>2.798,463</b> | 5   | -     |
| SJZ2050 | <b>NEW</b> M20 | M20(Ø50)     | <b>3.191,740</b> | 5   | -     |

#### Blister

| CODE      | SIZE         | €/BAG        | PCS | BAGS |
|-----------|--------------|--------------|-----|------|
| BZSJZ0403 | M4(Ø3)       | <b>4,146</b> | 4   | 20   |
| BZSJZ0505 | M5(Ø5)       | <b>4,146</b> | 2   | 20   |
| BZSJZ0506 | M5(Ø6 - 6,5) | <b>4,146</b> | 2   | 20   |
| BZSJZ0608 | M6(Ø6)       | <b>4,146</b> | 2   | 20   |

### **NEW** SJ-A4

A4 Stainless steel



| CODE     | METRIC | Ø CABLE  | €/100            |    |       |
|----------|--------|----------|------------------|----|-------|
| SJA42103 | M4     | M4(Ø3)   | <b>195,100</b>   | 50 | 1.200 |
| SJA42305 | M5     | M5(Ø5)   | <b>257,000</b>   | 40 | 960   |
| SJA42606 | M5     | M5(Ø6)   | <b>280,800</b>   | 20 | 900   |
| SJA43008 | M6     | M6(Ø8)   | <b>295,100</b>   | 20 | 480   |
| SJA43410 | M8     | M8(Ø10)  | <b>523,500</b>   | 10 | 240   |
| SJA43611 | M8     | M8(Ø11)  | <b>761,500</b>   | 10 | 240   |
| SJA44414 | M10    | M10(Ø14) | <b>894,800</b>   | 5  | 225   |
| SJA45016 | M12    | M12(Ø16) | <b>1.423,000</b> | 5  | 120   |
| SJA45418 | M12    | M12(Ø18) | <b>2.141,700</b> | 5  | 80    |
| SJA46122 | M14    | M14(Ø22) | <b>3.036,500</b> | 1  | 45    |
| SJA46525 | M14    | M14(Ø25) | <b>3.402,900</b> | 1  | 24    |

### **NEW** SJ-O

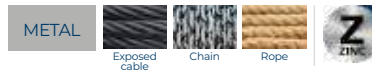
Oval cable clip. Zinc-plated



| CODE    | METRIC | Ø CABLE | €/100          |     |       |
|---------|--------|---------|----------------|-----|-------|
| SJO0502 | M5     | M5(Ø2)  | <b>89,613</b>  | 100 | 1.200 |
| SJO0503 | M5     | M5(Ø3)  | <b>93,880</b>  | 100 | 1.200 |
| SJO0604 | M6     | M6(Ø4)  | <b>168,557</b> | 100 | 600   |
| SJO0605 | M6     | M6(Ø5)  | <b>183,490</b> | 100 | 600   |
| SJO0606 | M6     | M6(Ø6)  | <b>199,280</b> | 25  | 600   |

Flat cable clip

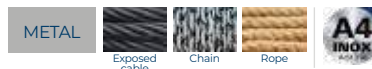
**SJ-P**



| CODE     | METRIC | Ø CABLE | €/100         |     |       |
|----------|--------|---------|---------------|-----|-------|
| SJPS0402 | M4     | M4(Ø2)  | <b>22,190</b> | 100 | 4.500 |
| SJPS0403 | M4     | M4(Ø3)  | <b>22,617</b> | 100 | 2.400 |
| SJPS0504 | M5     | M5(Ø4)  | <b>29,870</b> | 100 | 2.400 |
| SJPS0605 | M6     | M6(Ø5)  | <b>42,673</b> | 100 | 1.200 |
| SJPS0606 | M6     | M6(Ø6)  | <b>59,743</b> | 50  | 600   |

**SJ-PS** NEW

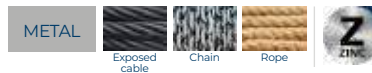
Single. Zinc-plated



| CODE       | METRIC | Ø CABLE | €/100          |    |       |
|------------|--------|---------|----------------|----|-------|
| SJPSA40403 | M4     | M4(Ø3)  | <b>99,947</b>  | 30 | 1.350 |
| SJPSA40504 | M5     | M5(Ø4)  | <b>147,540</b> | 30 | 1.350 |
| SJPSA40605 | M6     | M6(Ø5)  | <b>204,650</b> | 20 | 900   |
| SJPSA40606 | M6     | M6(Ø6)  | <b>347,430</b> | 10 | 450   |

**SJ-PS A4** NEW

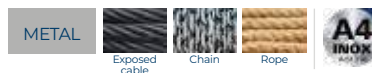
Single. A4 Stainless steel



| CODE     | METRIC | Ø CABLE | €/100          |     |       |
|----------|--------|---------|----------------|-----|-------|
| SJPD0402 | M4     | M4(Ø2)  | <b>33,070</b>  | 100 | 2.400 |
| SJPD0403 | M4     | M4(Ø3)  | <b>40,113</b>  | 100 | 1.200 |
| SJPD0504 | M5     | M5(Ø4)  | <b>50,993</b>  | 100 | 1.200 |
| SJPD0605 | M5     | M5(Ø5)  | <b>70,410</b>  | 50  | 600   |
| SJPD0606 | M6     | M6(Ø6)  | <b>108,813</b> | 50  | 300   |
| SJPD0808 | M8     | M8(Ø8)  | <b>185,627</b> | 25  | 150   |

**SJ-PD** NEW

Double. Zinc-plated



| CODE       | METRIC | Ø CABLE | €/100          |    |     |
|------------|--------|---------|----------------|----|-----|
| SJPDA40403 | M4     | M4(Ø3)  | <b>166,577</b> | 30 | 720 |
| SJPDA40504 | M5     | M5(Ø4)  | <b>271,283</b> | 30 | 720 |
| SJPDA40605 | M5     | M5(Ø5)  | <b>337,913</b> | 20 | 480 |
| SJPDA40606 | M6     | M6(Ø6)  | <b>585,397</b> | 10 | 240 |

**SJ-PD A4** NEW

Double. A4 Stainless steel



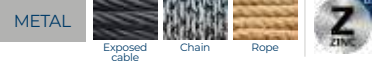


# TS-GA

Turnbuckle hook/ring DIN-1480

## TS-GA

Zinc-plated



| CODE   | METRIC        | Ø CABLE  | €/100             |    |     |
|--------|---------------|----------|-------------------|----|-----|
| TSGA06 | M6            | M6(Ø10)  | <b>246,763</b>    | 50 | 200 |
| TSGA08 | M8            | M8(Ø11)  | <b>329,437</b>    | 25 | 100 |
| TSGA10 | M10           | M10(Ø14) | <b>470,610</b>    | 25 | 75  |
| TSGA12 | M12           | M12(Ø17) | <b>708,053</b>    | 10 | 20  |
| TSGA14 | M14           | M14(Ø18) | <b>998,627</b>    | 10 | 20  |
| TSGA16 | M16           | M16(Ø23) | <b>1.402,513</b>  | 10 | 20  |
| TSGA20 | M20           | M20(Ø25) | <b>2.536,527</b>  | 5  | -   |
| TSGA22 | M22           | M22(Ø30) | <b>3.502,840</b>  | 1  | -   |
| TSGA24 | M24           | M24(Ø34) | <b>4.355,847</b>  | 1  | -   |
| TSGA30 | M30           | M30(Ø38) | <b>8.736,030</b>  | 1  | -   |
| TSGA36 | M36           | M36(Ø48) | <b>26.688,690</b> | 1  | -   |
| TSGA05 | <b>NEW</b> M5 | M5(Ø8)   | <b>176,257</b>    | 50 | 300 |

Blister

| CODE     | SIZE    | €/BAG        | PCS PER BAG | BAGS |
|----------|---------|--------------|-------------|------|
| BZTSGA06 | M6(Ø10) | <b>4,146</b> | 1           | 20   |

## **NEW** TS-GA A4

A4 Stainless steel



| CODE     | METRIC | Ø CABLE  | €/100            |    |     |
|----------|--------|----------|------------------|----|-----|
| TSGAA405 | M5     | M5(Ø8)   | <b>483,740</b>   | 10 | 240 |
| TSGAA406 | M6     | M6(Ø10)  | <b>678,207</b>   | 10 | 120 |
| TSGAA410 | M10    | M10(Ø14) | <b>1.763,297</b> | 5  | 30  |
| TSGAA412 | M12    | M12(Ø17) | <b>3.323,197</b> | 5  | 30  |

# TS-AA

Turnbuckle ring/ring DIN-1480

## **NEW** TS-AA

Zinc-plated



| CODE   | METRIC | Ø CABLE  | €/100             |    |     |
|--------|--------|----------|-------------------|----|-----|
| TSAA05 | M5     | M5(Ø8)   | <b>176,257</b>    | 50 | 300 |
| TSAA06 | M6     | M6(Ø10)  | <b>256,577</b>    | 50 | 200 |
| TSAA08 | M8     | M8(Ø11)  | <b>331,860</b>    | 25 | 100 |
| TSAA10 | M10    | M10(Ø14) | <b>480,503</b>    | 25 | 75  |
| TSAA12 | M12    | M12(Ø17) | <b>713,263</b>    | 10 | 30  |
| TSAA14 | M14    | M14(Ø18) | <b>937,480</b>    | 10 | 20  |
| TSAA16 | M16    | M16(Ø23) | <b>1.412,457</b>  | 10 | 20  |
| TSAA20 | M20    | M20(Ø25) | <b>2.426,083</b>  | 5  | 10  |
| TSAA22 | M22    | M22(Ø30) | <b>3.387,467</b>  | 1  | -   |
| TSAA24 | M24    | M24(Ø34) | <b>4.505,373</b>  | 1  | -   |
| TSAA30 | M30    | M30(Ø39) | <b>8.096,277</b>  | 1  | -   |
| TSAA36 | M36    | M36(Ø49) | <b>24.734,237</b> | 1  | -   |

## **NEW** TS-AA A4

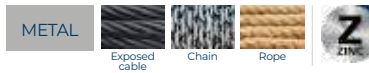
A4 Stainless steel





| CODE     | METRIC | Ø CABLE  | €/100            |    |     |
|----------|--------|----------|------------------|----|-----|
| TSAAA410 | M10    | M10(Ø14) | <b>1.856,100</b> | 5  | 20  |
| TSAAA412 | M12    | M12(Ø17) | <b>3.498,100</b> | 5  | 20  |
| TSAAA405 | M5     | M5(Ø8)   | <b>509,200</b>   | 10 | 240 |
| TSAAA406 | M6     | M6(Ø10)  | <b>713,900</b>   | 10 | 120 |
| TSAAA408 | M8     | M8(Ø11)  | <b>1.251,700</b> | 10 | 60  |

## Turnbuckle hook/hook DIN-1480

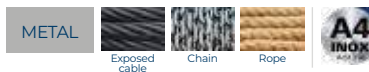
## TS-GG




| CODE   | METRIC | Ø CABLE  | €/100      |  |  |
|--------|--------|----------|------------|---|---|
| TSGG05 | M5     | M5(Ø7)   | 176,227    | 50  | 300   |
| TSGG06 | M6     | M6(Ø8)   | 256,597    | 50  | 200   |
| TSGG08 | M8     | M8(Ø9.5) | 331,837    | 25  | 75  |
| TSGG10 | M10    | M10(Ø12) | 480,510    | 25  | 75  |
| TSGG12 | M12    | M12(Ø15) | 713,260    | 10  | 20  |
| TSGG14 | M14    | M14(Ø17) | 937,460    | 10  | 20  |
| TSGG16 | M16    | M16(Ø19) | 1.412,460  | 10  | 20  |
| TSGG20 | M20    | M20(Ø20) | 2.426,110  | 5   | -   |
| TSGG22 | M22    | M22(Ø23) | 3.387,510  | 1   | -   |
| TSGG24 | M24    | M24(Ø25) | 4.505,377  | 1   | -   |
| TSGG30 | M30    | M30(Ø31) | 8.096,280  | 1   | -   |
| TSGG36 | M36    | M36(Ø44) | 24.734,200 | 1   | -   |

TS-GG **NEW**

Zinc-plated



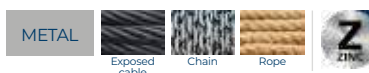
| CODE     | METRIC | Ø CABLE  | €/100     |  |  |
|----------|--------|----------|-----------|---|---|
| TSGGA405 | M5     | M5(Ø7)   | 509,200   | 10  | 240   |
| TSGGA406 | M6     | M6(Ø8)   | 713,900   | 10  | 120   |
| TSGGA408 | M8     | M8(Ø9.5) | 1.251,700 | 10  | -   |
| TSGGA410 | M10    | M10(Ø12) | 1.856,100 | 5   | 20  |
| TSGGA412 | M12    | M12(Ø15) | 3.498,100 | 5   | 15  |



TS-GG A4 **NEW**

A4 Stainless steel



## Welding rod turnbuckle

TS-VS **NEW**

| CODE   | METRIC | Ø CABLE  | €/100      |  |  |
|--------|--------|----------|------------|---|---|
| TSVS06 | M6     | M6(Ø9)   | 246,717    | 50  | 100   |
| TSVS08 | M8     | M8(Ø11)  | 299,630    | 25  | 50  |
| TSVS10 | M10    | M10(Ø13) | 458,280    | 25  | 50  |
| TSVS12 | M12    | M12(Ø16) | 638,970    | 25  | 50  |
| TSVS14 | M12    | M12(Ø20) | 885,687    | 10  | 20  |
| TSVS16 | M16    | M16(Ø24) | 1.313,090  | 10  | -   |
| TSVS20 | M20    | M20(Ø17) | 2.256,060  | 1   | -   |
| TSVS22 | M22    | M22(Ø26) | 2.969,890  | 1   | -   |
| TSVS24 | M24    | M24(Ø28) | 4.124,427  | 1   | -   |
| TSVS30 | M30    | M30(Ø34) | 6.389,320  | 1   | -   |
| TSVS36 | M36    | M36(Ø39) | 13.659,860 | 1   | -   |



# EV-H Ring nut D-582

## EV-H

Zinc-plated



| CODE  | METRIC         | Ø CABLE  | €/100     |     |     |
|-------|----------------|----------|-----------|-----|-----|
| EVH06 | M6             | M6(Ø20)  | 173,767   | 100 | 400 |
| EVH08 | M8             | M8(Ø20)  | 182,653   | 100 | 400 |
| EVH10 | M10            | M10(Ø25) | 259,000   | 100 | 200 |
| EVH12 | M12            | M12(Ø30) | 319,853   | 100 | -   |
| EVH14 | M14            | M14(Ø35) | 426,077   | 50  | 150 |
| EVH16 | M16            | M16(Ø35) | 484,820   | 50  | 100 |
| EVH18 | M18            | M18(Ø40) | 649,273   | 50  | -   |
| EVH20 | M20            | M20(Ø40) | 679,747   | 50  | -   |
| EVH22 | M22            | M22(Ø45) | 1.073,827 | 25  | 50  |
| EVH24 | M24            | M24(Ø50) | 1.339,260 | 25  | -   |
| EVH30 | M30            | M30(Ø60) | 2.986,607 | 10  | 20  |
| EVH36 | M36            | M36(Ø70) | 4.894,393 | 1   | -   |
| EVH27 | <b>NEW</b> M28 | M28(Ø53) | 2.560,360 | 10  | -   |
| EVH42 | <b>NEW</b> M42 | M42(Ø80) | 6.400,900 | 1   | -   |
| EVH48 | <b>NEW</b> M48 | M48(Ø90) | 9.814,713 | 1   | -   |

**NEW**

## EV-H A4

A4 Stainless steel

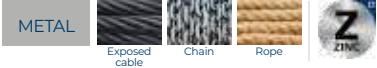


| CODE    | METRIC | Ø CABLE  | €/100     |    |     |
|---------|--------|----------|-----------|----|-----|
| EVHA406 | M6     | M6(Ø15)  | 209,410   | 10 | 450 |
| EVHA408 | M8     | M8(Ø20)  | 337,913   | 10 | 450 |
| EVHA410 | M10    | M10(Ø25) | 642,510   | 10 | 240 |
| EVHA412 | M12    | M12(Ø30) | 951,867   | 5  | 120 |
| EVHA414 | M14    | M14(Ø30) | 1.427,800 | 5  | 120 |
| EVHA416 | M16    | M16(Ø35) | 1.665,767 | 1  | -   |
| EVHA420 | M20    | M20(Ø38) | 2.189,293 | 1  | -   |
| EVHA424 | M24    | M24(Ø50) | 4.759,333 | 1  | 24  |

# EV-M Ring nut D-580

## EV-M

Zinc-plated



| CODE  | METRIC         | Ø CABLE   | €/100      |     |     |
|-------|----------------|-----------|------------|-----|-----|
| EVM06 | M6             | M6 (Ø20)  | 152,990    | 100 | 400 |
| EVM08 | M8             | M8 (Ø20)  | 182,653    | 100 | 400 |
| EVM10 | M10            | M10 (Ø25) | 259,000    | 100 | 200 |
| EVM12 | M12            | M12 (Ø30) | 319,853    | 50  | 100 |
| EVM14 | M14            | M14 (Ø35) | 426,077    | 50  | 100 |
| EVM16 | M16            | M16 (Ø35) | 484,820    | 50  | -   |
| EVM18 | M18            | M18 (Ø40) | 649,273    | 50  | -   |
| EVM20 | M20            | M20 (Ø40) | 679,747    | 25  | 50  |
| EVM22 | M22            | M22 (Ø45) | 1.073,827  | 25  | 50  |
| EVM24 | M24            | M24 (Ø50) | 1.339,260  | 25  | -   |
| EVM30 | M30            | M30 (Ø60) | 2.986,607  | 10  | -   |
| EVM36 | M36            | M36 (Ø70) | 4.894,393  | 1   | -   |
| EVM42 | M42            | M42(Ø80)  | 9.083,140  | 1   | -   |
| EVM48 | M48            | M48 (Ø90) | 15.364,613 | 1   | -   |
| EVM27 | <b>NEW</b> M27 | M27 (Ø55) | 2.560,360  | 10  | -   |
| EVM33 | <b>NEW</b> M33 | M33 (Ø65) | 3.840,540  | 1   | -   |

**NEW**

## EV-M A4

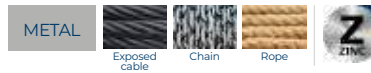
A4 Stainless steel



| CODE    | METRIC | Ø CABLE   | €/100     |    |     |
|---------|--------|-----------|-----------|----|-----|
| EVMA406 | M6     | M6 (Ø20)  | 223,690   | 10 | 450 |
| EVMA408 | M8     | M8 (Ø20)  | 385,507   | 10 | 450 |
| EVMA410 | M10    | M10 (Ø25) | 690,103   | 10 | 240 |
| EVMA412 | M12    | M12(Ø30)  | 1.047,053 | 5  | 120 |
| EVMA414 | M14    | M14 (Ø35) | 1.546,783 | 5  | 120 |
| EVMA416 | M16    | M16 (Ø35) | 1.808,547 | 1  | 45  |
| EVMA420 | M20    | M20 (Ø40) | 2.617,633 | 1  | -   |
| EVMA424 | M24    | M24(Ø50)  | 5.711,200 | 1  | 12  |



## Straight shackle

GR



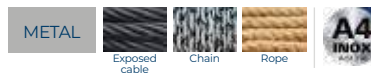
GR-Z

Zinc-plated



| CODE  | METRIC | Ø CABLE   | €/100      |  |  |
|-------|--------|-----------|------------|---|---|
| GRZ05 | M5     | M5(Ø10)   | 96,663     | 50  | 1.200   |
| GRZ06 | M6     | M6(Ø12)   | 101,473    | 50  | 600   |
| GRZ08 | M8     | M8(Ø16)   | 127,867    | 50  | 300   |
| GRZ10 | M10    | M10(Ø19)  | 167,723    | 50  | 200   |
| GRZ11 | M11    | M11(Ø22)  | 289,907    | 25  | 150   |
| GRZ12 | M12    | M12(Ø25)  | 263,863    | 25  | 100   |
| GRZ14 | M14    | M14(Ø28)  | 404,577    | 25  | 75  |
| GRZ16 | M16    | M16(Ø32)  | 545,640    | 10  | 40  |
| GRZ18 | M18    | M18(Ø36)  | 846,557    | 5   | 30  |
| GRZ20 | M20    | M20(Ø38)  | 971,713    | 5   | 20  |
| GRZ22 | M22    | M22(Ø44)  | 1.294,393  | 1   | -   |
| GRZ25 | M25    | M25(Ø50)  | 1.893,433  | 1   | -   |
| GRZ28 | M28    | M28(Ø56)  | 2.815,680  | 1   | -   |
| GRZ32 | M32    | M32(Ø64)  | 4.598,987  | 1   | -   |
| GRZ36 | M36    | M36(Ø70)  | 8.831,333  | 1   | -   |
| GRZ38 | NEW    | M38(Ø76)  | 7.254,353  | 1   | -   |
| GRZ42 | M42    | M42(Ø76)  | 16.866,977 | 1   | -   |
| GRZ45 | M45    | M45(Ø80)  | 22.419,150 | 1   | -   |
| GRZ50 | M50    | M50(Ø90)  | 29.436,760 | 1   | -   |
| GRZ56 | NEW    | M56(Ø100) | 48.646,840 | 1   | -   |
| GRZ63 | NEW    | M63(Ø110) | 79.584,523 | 1   | -   |


 Blister

| CODE    | SIZE     | €/BAG | PCS  | BAGS  |
|---------|----------|-------|---|--|
| BZGRZ05 | M5(Ø10)  | 4,146 | 4   | 20   |
| BZGRZ06 | M6(Ø12)  | 4,146 | 4   | 20   |
| BZGRZ08 | M8(Ø16)  | 4,146 | 2   | 20   |
| BZGRZ10 | M10(Ø19) | 4,146 | 1   | 20   |

GR-A4 <sup>NEW</sup>

A4 Stainless steel

| CODE   | METRIC | Ø CABLE  | €/100     |  |  |
|--------|--------|----------|-----------|---|---|
| GRA404 | M4     | M4(Ø08)  | 209,410   | 25  | 1.125   |
| GRA405 | M5     | M5(Ø10)  | 228,447   | 25  | 1.125   |
| GRA406 | M6     | M6(Ø12)  | 261,763   | 25  | 600   |
| GRA408 | M8     | M8(Ø16)  | 390,267   | 10  | 240   |
| GRA410 | M10    | M10(Ø19) | 628,233   | 10  | 120   |
| GRA412 | M12    | M12(Ø25) | 989,940   | 5   | 60  |
| GRA414 | M14    | M14(Ø28) | 1.594,377 | 5   | 60  |
| GRA416 | M16    | M16(Ø32) | 2.284,480 | 5   | 40  |
| GRA419 | M20    | M20(Ø38) | 4.473,773 | 1   | -   |
| GRA425 | M25    | M25(Ø50) | 9.613,853 | 1   | -   |





# GD

## Thimble DIN-6899/A

### GD-Z

Zinc-plated



| CODE  | METRIC         | Ø CABLE  | €/100          |     |       |
|-------|----------------|----------|----------------|-----|-------|
| GDZ03 | M3             | M3(Ø12)  | <b>34,003</b>  | 200 | 2.400 |
| GDZ04 | M4             | M4(Ø13)  | <b>34,790</b>  | 200 | 1.200 |
| GDZ05 | M5             | M5(Ø14)  | <b>39,593</b>  | 200 | 600   |
| GDZ06 | M6             | M6(Ø15)  | <b>44,473</b>  | 200 | -     |
| GDZ08 | M8             | M8(Ø18)  | <b>49,040</b>  | 100 | 200   |
| GDZ10 | M10            | M10(Ø22) | <b>67,143</b>  | 100 | 200   |
| GDZ13 | M13            | M13(Ø28) | <b>143,263</b> | 50  | -     |
| GDZ15 | M15            | M15(Ø32) | <b>213,080</b> | 50  | -     |
| GDZ18 | M18            | M18(Ø40) | <b>492,603</b> | 50  | -     |
| GDZ20 | M20            | M20(Ø44) | <b>615,633</b> | 25  | -     |
| GDZ24 | M24            | M24(Ø48) | <b>756,450</b> | 10  | 20    |
| GDZ12 | <b>NEW</b> M12 | M12(Ø26) | <b>98,150</b>  | 100 | 200   |

#### Blister

| CODE    | SIZE    | €/BAG        | PCS PER BAG | BAGS |
|---------|---------|--------------|-------------|------|
| BZGDZ03 | M3(Ø12) | <b>4,146</b> | 6           | 20   |
| BZGDZ04 | M4(Ø13) | <b>4,146</b> | 4           | 20   |
| BZGDZ05 | M5(Ø14) | <b>4,146</b> | 4           | 20   |
| BZGDZ06 | M6(Ø15) | <b>4,146</b> | 4           | 20   |

### **NEW** GD-A4

A4 Stainless steel



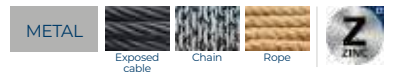
| CODE   | METRIC | Ø CABLE  | €/100          |     |       |
|--------|--------|----------|----------------|-----|-------|
| GDA402 | M2     | M2(Ø10)  | <b>39,503</b>  | 100 | 4.500 |
| GDA403 | M3     | M3(Ø12)  | <b>57,113</b>  | 100 | 4.500 |
| GDA404 | M4     | M4(Ø13)  | <b>66,630</b>  | 50  | 2.250 |
| GDA405 | M5     | M5(Ø14)  | <b>90,427</b>  | 50  | 1.200 |
| GDA406 | M6     | M6(Ø15)  | <b>104,707</b> | 50  | 1.200 |
| GDA408 | M8     | M8(Ø18)  | <b>199,893</b> | 50  | 600   |
| GDA410 | M10    | M10(Ø22) | <b>328,393</b> | 25  | 300   |
| GDA412 | M12    | M12(Ø26) | <b>385,507</b> | 10  | 120   |
| GDA415 | M15    | M15(Ø32) | <b>666,307</b> | 5   | 60    |

# GI

## Lyre shackle

### **NEW** GI-Z

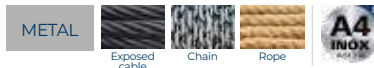
Zinc-plated



| CODE  | METRIC | Ø CABLE  | €/100            |    |       |
|-------|--------|----------|------------------|----|-------|
| GIZ05 | M5     | M5(Ø8)   | <b>64,010</b>    | 50 | 1.200 |
| GIZ06 | M6     | M6(Ø10)  | <b>68,277</b>    | 50 | 600   |
| GIZ08 | M8     | M8(Ø12)  | <b>110,950</b>   | 50 | 300   |
| GIZ10 | M10    | M10(Ø16) | <b>174,960</b>   | 50 | 200   |
| GIZ11 | M11    | M11(Ø19) | <b>234,697</b>   | 25 | 150   |
| GIZ12 | M12    | M12(Ø28) | <b>264,570</b>   | 25 | 100   |
| GIZ14 | M14    | M14(Ø33) | <b>409,657</b>   | 10 | 60    |
| GIZ16 | M16    | M16(Ø37) | <b>567,543</b>   | 10 | 40    |
| GIZ20 | M20    | M20(Ø40) | <b>1.024,143</b> | 5  | 30    |
| GIZ22 | M22    | M22(Ø47) | <b>1.365,527</b> | 1  | 45    |
| GIZ25 | M25    | M25(Ø52) | <b>1.920,270</b> | 1  | -     |
| GIZ28 | M28    | M28(Ø63) | <b>2.901,740</b> | 1  | -     |
| GIZ32 | M32    | M32(Ø75) | <b>4.736,667</b> | 1  | -     |
| GIZ36 | M36    | M36(Ø78) | <b>6.336,893</b> | 1  | -     |

Lyre shackle

**GI**



**GI-A4** NEW

A4 Stainless steel



| CODE   | METRIC | Ø CABLE  | €/100     |    |       |
|--------|--------|----------|-----------|----|-------|
| GIA404 | M4     | M4(Ø6)   | 266,523   | 25 | 1.125 |
| GIA405 | M5     | M5(Ø8)   | 290,320   | 25 | 1.125 |
| GIA406 | M6     | M6(Ø10)  | 318,877   | 10 | 450   |
| GIA408 | M8     | M8(Ø12)  | 475,933   | 10 | 240   |
| GIA410 | M10    | M10(Ø16) | 785,290   | 10 | 120   |
| GIA412 | M12    | M12(Ø28) | 1.237,427 | 5  | 60    |
| GIA414 | M14    | M14(Ø33) | 2.141,700 | 5  | 60    |
| GIA416 | M16    | M16(Ø37) | 2.926,990 | 5  | 30    |

Zinc plated "S"

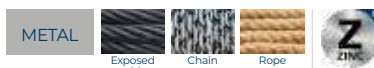
**GS** NEW



| CODE    | METRIC | Ø CABLE  | €/100   |     |       |
|---------|--------|----------|---------|-----|-------|
| GSZ0325 | M3     | M3(Ø3)   | 10,670  | 200 | 4.800 |
| GSZ0435 | M4     | M4(Ø10)  | 12,373  | 200 | 2.400 |
| GSZ0545 | M5     | M5(Ø13)  | 22,617  | 200 | 1.200 |
| GSZ0655 | M6     | M6(Ø15)  | 34,563  | 100 | 600   |
| GSZ0765 | M7     | M7(Ø20)  | 65,717  | 50  | 300   |
| GSZ0875 | M8     | M8(Ø22)  | 96,013  | 50  | 300   |
| GSZ1010 | M10    | M10(Ø25) | 168,557 | 25  | 150   |

Firefighter carabiner

**MQ**

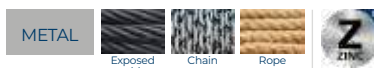


**MQ-BS** NEW

With lock



| CODE   | METRIC | Ø CABLE    | €/100   |     |       |
|--------|--------|------------|---------|-----|-------|
| MQBS04 | M4     | M4(Ø6)     | 106,683 | 200 | 2.400 |
| MQBS06 | M6     | M6(Ø9)     | 139,150 | 100 | 600   |
| MQBS07 | M7     | M7(Ø10)    | 171,617 | 100 | 400   |
| MQBS08 | M8     | M8(Ø12)    | 190,173 | 50  | 300   |
| MQBS09 | M9     | M9(Ø15)    | 264,387 | 25  | 150   |
| MQBS10 | M10    | M10(Ø14,7) | 320,047 | 25  | 150   |
| MQBS11 | M11    | M11(Ø18)   | 436,003 | 25  | 100   |
| MQBS12 | M12    | M12(Ø20)   | 635,453 | 10  | 60    |



**MQ-B** NEW

Firefighter carabiner



| CODE  | METRIC | Ø CABLE  | €/100     |     |       |
|-------|--------|----------|-----------|-----|-------|
| MQB04 | M4     | M4(Ø6)   | 69,577    | 100 | 2.400 |
| MQB05 | M5     | M5(Ø8)   | 71,893    | 100 | 1.200 |
| MQB06 | M6     | M6(Ø9)   | 88,127    | 100 | 600   |
| MQB07 | M7     | M7(Ø10)  | 113,640   | 100 | 600   |
| MQB08 | M8     | M8(Ø12)  | 139,150   | 50  | 300   |
| MQB09 | M9     | M9(Ø15)  | 193,883   | 25  | 150   |
| MQB10 | M10    | M10(Ø15) | 231,917   | 25  | 150   |
| MQB11 | M11    | M11(Ø18) | 347,877   | 10  | 120   |
| MQB12 | M12    | M12(Ø20) | 426,727   | 10  | 60    |
| MQB14 | M14    | M14(Ø25) | 960,137   | 10  | 40    |
| MQB15 | M15    | M15(Ø26) | 1.345,117 | 10  | 30    |

# CM

## Fencing accesories

### CM-BP

Clamp post



METAL



| CODE      | SIZE  | €/100          |     |
|-----------|-------|----------------|-----|
| CMBRPOS33 | 33-35 | <b>162,973</b> | 250 |
| CMBRPOS40 | 40-43 | <b>168,527</b> | 200 |
| CMBRPOS42 | 42-45 | <b>171,217</b> | 200 |
| CMBRPOS48 | 48-52 | <b>177,150</b> | 200 |
| CMBRPOS50 | 50-53 | <b>179,787</b> | 200 |
| CMBRPOS60 | 60-62 | <b>194,007</b> | 150 |

### CM-BT

Screw tighten clamp



METAL



| CODE      | SIZE | €/100          |     |
|-----------|------|----------------|-----|
| CMBRTEN48 | 48   | <b>319,190</b> | 200 |

### CM-TA

Stopper



METAL



| CODE      | SIZE | €/100          |     |
|-----------|------|----------------|-----|
| CMTAPON33 | 33   | <b>75,477</b>  | 500 |
| CMTAPON40 | 40   | <b>82,860</b>  | 350 |
| CMTAPON42 | 42   | <b>86,037</b>  | 350 |
| CMTAPON48 | 48   | <b>95,593</b>  | 300 |
| CMTAPON50 | 50   | <b>106,603</b> | 250 |
| CMTAPON60 | 60   | <b>123,673</b> | 250 |

### CM-TP

Post stopper



METAL



| CODE      | SIZE | €/100          |     |
|-----------|------|----------------|-----|
| CMTAPOS33 | 33   | <b>203,933</b> | 100 |
| CMTAPOS40 | 40   | <b>214,003</b> | 200 |
| CMTAPOS42 | 42   | <b>214,630</b> | 200 |
| CMTAPOS48 | 48   | <b>236,520</b> | 150 |

### CM-UN

Fastener



METAL




| CODE      | SIZE        | €/100         |       |
|-----------|-------------|---------------|-------|
| CMUNAAGUJ | Con agujero | <b>23,573</b> | 1.500 |

## Fencing hardware

## CM-T

METAL



| CODE      | SIZE      | €/100          |  |
|-----------|-----------|----------------|--|
| CMTENSOAL | 85 x 29,5 | <b>118,730</b> | 250  |

**CM-TENSO**

Wire tightener



METAL



| CODE      | SIZE      | €/100          |  |
|-----------|-----------|----------------|--|
| CMTENSOVE | 85 x 29,5 | <b>185,470</b> | 250  |


**CM-TENSOVE**

Green wire tightener



METAL



| CODE      | SIZE     | €/100          |  |
|-----------|----------|----------------|--|
| CMTENSOTO | Tornillo | <b>111,807</b> | 450  |

**CM-TT**

Wire tightening screw









# FIXINGS AND ACCESSORIES FOR PLASTERBOARD



# PL

Drywall screw for plasterboard. Black-phosphated. Bugle head, twinfast thread, S-point. PH recess

## PL-F

Screw

HOLLOWS



FREE - 1 bit inside each box

| CODE    | SIZE      | €/100         |     | DRILL CAPACITY | MIN. ORDER QTY. |       |        |
|---------|-----------|---------------|-----|----------------|-----------------|-------|--------|
| PL35019 | 3,5 x 19  | <b>2,087</b>  | PH2 | < 0.6 mm       | 2.000           | 1.000 | 12.000 |
| PL35025 | 3,5 x 25  | <b>1,957</b>  | PH2 | < 0.6 mm       | 2.000           | 1.000 | 12.000 |
| PL35035 | 3,5 x 35  | <b>2,590</b>  | PH2 | < 0.6 mm       | 2.000           | 1.000 | 6.000  |
| PL35045 | 3,5 x 45  | <b>3,103</b>  | PH2 | < 0.6 mm       | 1.000           | 500   | 6.000  |
| PL35055 | 3,5 x 55  | <b>3,977</b>  | PH2 | < 0.6 mm       | 1.000           | 500   | 3.000  |
| PL39025 | 3,9 x 25  | <b>2,420</b>  | PH2 | < 0.6 mm       | 2.000           | 1.000 | 12.000 |
| PL39035 | 3,9 x 35  | <b>3,360</b>  | PH2 | < 0.6 mm       | 2.000           | 1.000 | 6.000  |
| PL39045 | 3,9 x 45  | <b>4,233</b>  | PH2 | < 0.6 mm       | 1.000           | 500   | 3.000  |
| PL39055 | 3,9 x 55  | <b>5,070</b>  | PH2 | < 0.6 mm       | 1.000           | 500   | 3.000  |
| PL42070 | 4,2 x 70  | <b>7,643</b>  | PH2 | < 0.6 mm       | 500             | 500   | 3.000  |
| PL42080 | 4,2 x 80  | <b>9,833</b>  | PH2 | < 0.6 mm       | 500             | 500   | 2.000  |
| PL48090 | 4,8 x 90  | <b>16,727</b> | PH2 | < 0.6 mm       | 500             | 500   | 1.500  |
| PL48100 | 4,8 x 100 | <b>21,047</b> | PH2 | < 0.6 mm       | 500             | 500   | 1.000  |
| PL48110 | 4,8 x 110 | <b>23,270</b> | PH2 | < 0.6 mm       | 500             | 500   | 1.000  |
| PL48120 | 4,8 x 120 | <b>25,777</b> | PH2 | < 0.6 mm       | 500             | 500   | 1.000  |
| PL48130 | 4,8 x 130 | <b>28,320</b> | PH2 | < 0.6 mm       | 500             | 500   | 1.000  |

### Blister

| CODE      | SIZE     | €/BAG        | PCS PER BAG | BAGS |
|-----------|----------|--------------|-------------|------|
| BZPL35025 | 3,5 x 25 | <b>2,302</b> | 50          | 10   |
| BZPL35035 | 3,5 x 35 | <b>2,302</b> | 40          | 10   |
| BZPL35045 | 3,5 x 45 | <b>2,302</b> | 25          | 10   |

### Window box

| CODE     | SIZE     | €/BOX        | PCS | BOXES |
|----------|----------|--------------|-----|-------|
| VPL35025 | 3,5 x 25 | <b>7,097</b> | 250 | 8     |
| VPL35035 | 3,5 x 35 | <b>8,971</b> | 250 | 8     |
| VPL35045 | 3,5 x 45 | <b>6,776</b> | 150 | 8     |

## PL-EP

Plastic container

HOLLOWS



| CODE      | SIZE     | €/PC          |     | DRILL CAPACITY | MIN. ORDER QTY. |   | PCS. X JAR |
|-----------|----------|---------------|-----|----------------|-----------------|---|------------|
| PLEP35025 | 3,5 x 25 | <b>78,215</b> | PH2 | < 0.6 mm       | 1               | 1 | 4.000      |
| PLEP35035 | 3,5 x 35 | <b>77,540</b> | PH2 | < 0.6 mm       | 1               | 1 | 3.000      |

## Drywall screws for plasterboard. Wide head

PL-CA

HOLLOWS



| CODE      | SIZE     | €/100        |     |       |        |
|-----------|----------|--------------|-----|-------|--------|
| PLCAZ4213 | 4,2 x 13 | <b>2,840</b> | PH2 | 1.000 | 12.000 |
| PLCAZ4216 | 4,2 x 16 | <b>3,087</b> | PH2 | 1.000 | 12.000 |
| PLCAZ4219 | 4,2 x 19 | <b>3,317</b> | PH2 | 1.000 | 12.000 |
| PLCAZ4225 | 4,2 x 25 | <b>3,783</b> | PH2 | 1.000 | 6.000  |
| PLCAZ4232 | 4,2 x 32 | <b>4,690</b> | PH2 | 500   | 6.000  |
| PLCAZ4241 | 4,2 x 41 | <b>5,320</b> | PH2 | 500   | 3.000  |
| PLCAZ4251 | 4,2 x 51 | <b>6,027</b> | PH2 | 200   | 2.400  |



CE <sub>13</sub> UK  
CA21

## Drywall screw for plasterboard with bugle head, coarse thread, S-point

PL-RA

HOLLOWS



| CODE     | SIZE     | €/100        |     | MIN. ORDER QTY. |       |        |
|----------|----------|--------------|-----|-----------------|-------|--------|
| PLRA3925 | 3,9 x 25 | <b>2,717</b> | PH2 | 2.000           | 1.000 | 12.000 |
| PLRA3935 | 3,9 x 35 | <b>3,590</b> | PH2 | 2.000           | 1.000 | 6.000  |
| PLRA3945 | 3,9 x 45 | <b>4,637</b> | PH2 | 1.000           | 500   | 3.000  |
| PLRA3955 | 3,9 x 55 | <b>4,870</b> | PH2 | 1.000           | 500   | 3.000  |
| PLRA4835 | 4,8 x 35 | <b>4,560</b> | PH2 | 2.000           | 1.000 | 6.000  |



CE <sub>13</sub> UK  
CA21

## Drywall screw for plasterboard, with bugle head, twinfastthread

PL-TR

HOLLOWS



| CODE     | SIZE     | €/100        |     | DRILL CAPACITY | MIN. ORDER QTY. |       |        |
|----------|----------|--------------|-----|----------------|-----------------|-------|--------|
| PLTR3525 | 3,5 x 25 | <b>2,810</b> | PH2 | 0,6 - 3 mm     | 2.000           | 1.000 | 12.000 |
| PLTR3535 | 3,5 x 35 | <b>3,510</b> | PH2 | 0,6 - 3 mm     | 2.000           | 1.000 | 6.000  |
| PLTR3545 | 3,5 x 45 | <b>4,400</b> | PH2 | 0,6 - 3 mm     | 1.000           | 500   | 6.000  |



CE <sub>13</sub> UK  
CA21

# CP

## Tape for plasterboards

### CP-PA

Paper tape for joints



**HOLLOWS**



| CODE    | SIZE          | €/PC          |  |
|---------|---------------|---------------|---|
| CPPA023 | 23 m x 50 mm  | <b>3,561</b>  | 20  |
| CPPA075 | 75 m x 50 mm  | <b>6,841</b>  | 20  |
| CPPA150 | 150 m x 50 mm | <b>11,222</b> | 10  |

### CP-GV

Reinforced tape



**HOLLOWS**



| CODE    | SIZE   | €/PC          |  |  |
|---------|--------|---------------|---|---|
| CPGV012 | 12,5 m | <b>16,570</b> | 1   | 20  |
| CPGV030 | 30 m   | <b>23,012</b> | 1   | 10  |

### CP-AC

Adhesive acoustic band



**HOLLOWS**



| CODE       | SIZE         | €/PC          |  |
|------------|--------------|---------------|---|
| CPAC300453 | 30m x 45 x 3 | <b>13,103</b> | 26  |
| CPAC300703 | 30m x 70 x 3 | <b>19,800</b> | 17  |

### CP-MV

Fiberglass mesh tape



**HOLLOWS**



| CODE    | SIZE  | €/PC          |  |
|---------|-------|---------------|---|
| CPMV020 | 20 m  | <b>3,344</b>  | 100   |
| CPMV045 | 45 m  | <b>6,292</b>  | 64  |
| CPMV090 | 90 m  | <b>12,801</b> | 36  |
| CPMV150 | 150 m | <b>17,782</b> | 16  |



Universal anchor OME

MULTI-MATERIAL



| CODE   | SIZE | €/100  |     |       |
|--------|------|--------|-----|-------|
| OMEM06 | M6   | 55,747 | 100 | 1.000 |



M6 half clamp MAB

METAL



| CODE     | SIZE    | €/100  |     |       |
|----------|---------|--------|-----|-------|
| MABM6018 | 18 (M6) | 15,870 | 100 | 2.400 |



Suspension bracket HO

HOLLOWS



| CODE     | SIZE      | €/100  |     |       |
|----------|-----------|--------|-----|-------|
| HOCUM647 | M6 (TC47) | 31,700 | 100 | 1.000 |

HO-CU

Pivot sleeve



HOLLOWS



| CODE     | SIZE      | €/100  |     |       |
|----------|-----------|--------|-----|-------|
| HOCRM647 | M6 (TC47) | 46,173 | 100 | 1.000 |
| HOCRM660 | M6 (TC60) | 62,010 | 100 | -     |

HO-CR

Straight





# EMP

Connecting piece for profiles



HOLLOWS



| CODE    | SIZE  | €/100         |    |     |
|---------|-------|---------------|----|-----|
| EMPTC45 | TC 45 | <b>39,050</b> | 50 | 150 |
| EMPTC47 | TC 47 | <b>39,050</b> | 50 | 500 |
| EMPTC60 | TC 60 | <b>56,197</b> | 50 | 500 |



# CAB

Trestle for profile intersection



HOLLOWS



| CODE    | SIZE  | €/100         |    |     |
|---------|-------|---------------|----|-----|
| CABTC47 | TC 47 | <b>55,807</b> | 50 | 400 |
| CABTC60 | TC 60 | <b>69,637</b> | 50 | -   |



# ADU

Direct "U" hook for supporting profiles on false ceilings



HOLLOWS



| CODE    | SIZE  | €/100         |     |     |
|---------|-------|---------------|-----|-----|
| ADUTC47 | TC 47 | <b>68,690</b> | 100 | 400 |
| ADUTC60 | TC 60 | <b>70,773</b> | 100 | 400 |



# PCU

Angled



METAL



| CODE    | SIZE | €/100         | MIN. ORDER QTY. |     |     |
|---------|------|---------------|-----------------|-----|-----|
| PCU0005 | 5    | <b>17,390</b> | 200             | 100 | 800 |
| PCU0006 | 6    | <b>17,797</b> | 200             | 100 | 800 |





Accessory for hanging

SUS

HOLLOWS



| CODE       | SIZE       | €/100          |     |       |
|------------|------------|----------------|-----|-------|
| SUSTC47090 | 90 (TC47)  | <b>22,987</b>  | 100 | 1.000 |
| SUSTC47180 | 180 (TC47) | <b>42,177</b>  | 100 | 500   |
| SUSTC47240 | 240 (TC47) | <b>97,313</b>  | 100 | 300   |
| SUSTC47300 | 300 (TC47) | <b>118,590</b> | 50  | 300   |
| SUSTC47400 | 400 (TC47) | <b>176,370</b> | 50  | 200   |



Trap doors for plasterboard

TR

HOLLOWS



| CODE       | SIZE      | €/PC          |   |
|------------|-----------|---------------|---|
| TRBL200200 | 200 x 200 | <b>27,097</b> | 1 |
| TRBL300300 | 300 x 300 | <b>37,474</b> | 1 |
| TRBL400400 | 400 x 400 | <b>52,764</b> | 1 |
| TRBL500500 | 500 x 500 | <b>74,395</b> | 1 |
| TRBL600600 | 600 x 600 | <b>95,129</b> | 1 |

TR-BL

White lacquered (RAL 9016)



HOLLOWS



| CODE       | SIZE      | €/PC          |   |
|------------|-----------|---------------|---|
| TR13200200 | 200 x 200 | <b>40,143</b> | 2 |
| TR13300300 | 300 x 300 | <b>48,973</b> | 2 |
| TR13400400 | 400 x 400 | <b>60,941</b> | 2 |
| TR13500500 | 500 x 500 | <b>76,428</b> | 1 |
| TR13600600 | 600 x 600 | <b>95,298</b> | 1 |

TR-13

13 mm



HOLLOWS



| CODE       | SIZE      | €/PC           |   |
|------------|-----------|----------------|---|
| TR15200200 | 200 x 200 | <b>87,403</b>  | 2 |
| TR15300300 | 300 x 300 | <b>97,393</b>  | 2 |
| TR15400400 | 400 x 400 | <b>112,813</b> | 2 |
| TR15500500 | 500 x 500 | <b>136,210</b> | 1 |
| TR15600600 | 600 x 600 | <b>158,911</b> | 1 |

TR-15

15 mm







# DIRECT FIXING



# FP-GUN Semiautomatic powder-actuated nail gun

## FP08GUN

For 8 mm nails



| CODE    | SIZE | €/PC           |   |
|---------|------|----------------|---|
| FP08GUN | 8mm  | <b>730,010</b> | 1 |

## FP12GUN

For 12 mm nails



| CODE    | SIZE | €/PC             |   |
|---------|------|------------------|---|
| FP12GUN | 12mm | <b>1.415,050</b> | 1 |

**GUNS SUPPLIED WITH COMPLETE KIT CASE**

**TOOL CASE CONTENT**

- Gun
- Brush
- User manual
- Safety glasses
- Spare parts
- Lubricant oil

# FP-IM Pistons for powder guns

## FP-IP

Powder cartridges



| CODE   | POWER   | COLOR  | €/100         |     |
|--------|---------|--------|---------------|-----|
| FPP3VE | POWER 3 | GREEN  | <b>28,257</b> | 100 |
| FPP4AM | POWER 4 | YELLOW | <b>28,257</b> | 100 |
| FPP5RO | POWER 5 | RED    | <b>28,257</b> | 100 |

## FP-CR

Disc powder cartridges

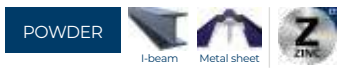




| CODE   | POWER   | COLOR  | €/100         |     |
|--------|---------|--------|---------------|-----|
| FPCRAM | POWER 4 | YELLOW | <b>38,047</b> | 100 |
| FPCRRO | POWER 5 | RED    | <b>38,047</b> | 100 |



Nails for powder-actuated FP08 guns

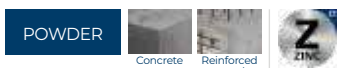
# FP-CL08





| CODE     | SIZE     | €/100         |  |  |
|----------|----------|---------------|---|---|
| FPCG0816 | 3,8 x 16 | <b>22,157</b> | 100   | 4,500   |
| FPCG0819 | 3,8 x 19 | <b>24,593</b> | 100   | 4,500   |

## FP-CG 08

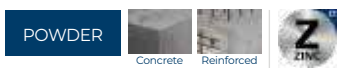
Knurled nails with plastic washer



| CODE     | SIZE     | €/100         |  |  |
|----------|----------|---------------|---|---|
| FPCL0816 | 3,8 x 16 | <b>10,453</b> | 100   | 4,500   |
| FPCL0819 | 3,8 x 19 | <b>10,827</b> | 100   | 4,500   |
| FPCL0825 | 3,8 x 25 | <b>10,900</b> | 100   | 4,500   |
| FPCL0827 | 3,8 x 27 | <b>11,117</b> | 100   | 2,400   |
| FPCL0832 | 3,8 x 32 | <b>11,660</b> | 100   | 2,400   |
| FPCL0838 | 3,8 x 38 | <b>13,010</b> | 100   | 2,400   |
| FPCL0844 | 3,8 x 44 | <b>13,920</b> | 100   | 2,400   |
| FPCL0851 | 3,8 x 51 | <b>15,793</b> | 100   | 2,400   |
| FPCL0857 | 3,8 x 57 | <b>16,313</b> | 100   | 2,400   |
| FPCL0864 | 3,8 x 64 | <b>18,123</b> | 100   | 1,200   |
| FPCL0870 | 3,8 x 70 | <b>18,880</b> | 100   | 1,200   |

## FP-CL 08

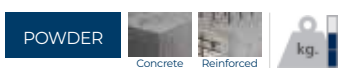
Standard nails with rubber washer




| CODE       | SIZE     | €/100          |  |  |
|------------|----------|----------------|---|---|
| FPAP085166 | 3,8 x 51 | <b>118,037</b> | 100   | 200   |

## FP-AP 08

Standard nails with 66mm plastic washer





| CODE      | SIZE     | €/100         |  |
|-----------|----------|---------------|--|
| FPC303708 | 3,8 x 37 | <b>50,303</b> | 100  |
| FPC304708 | 3,8 x 47 | <b>52,083</b> | 100  |

## FP-C30

Standard nails with 35mm plastic washer



| CODE     | SIZE     | €/100         |  |  |
|----------|----------|---------------|---|---|
| FPAM0837 | 3,8 x 37 | <b>30,180</b> | 100   | 600   |
| FPAM0851 | 3,8 x 51 | <b>32,943</b> | 100   | 600   |

## FP-AM 08

Standard nails with 66mm metallic washer



# FP-CL08

Nails for powder-actuated FP08 guns

## FP-CR 08 M6

M6 x 8 thread standard nails for the clamps installation



POWDER

| CODE     | SIZE     | €/100         |     |       |
|----------|----------|---------------|-----|-------|
| FPCR0812 | 3,8 x 12 | <b>26,493</b> | 100 | 2.400 |
| FPCR0822 | 3,8 x 22 | <b>27,267</b> | 100 | 2.400 |
| FPCR0827 | 3,8 x 27 | <b>27,690</b> | 100 | 2.400 |

## FP-CR 08 M8

M8 x 8 thread standard nails for the clamps installation



POWDER

| CODE       | SIZE     | €/100         |     |       |
|------------|----------|---------------|-----|-------|
| FPCRM80812 | 3,8 x 12 | <b>34,973</b> | 100 | 2.400 |
| FPCRM80827 | 3,8 x 27 | <b>37,380</b> | 100 | 2.400 |

## FP-PI 08

13mm clamp clip with nail and red rubber



POWDER

| CODE       | SIZE     | €/100         |     |     |
|------------|----------|---------------|-----|-----|
| FPPI081613 | 3,8 x 13 | <b>56,617</b> | 100 | 600 |

# FP-CL12

Nails for powder-actuated FP12 guns

## FP-CG 12

Knurled nails with 12 mm metal washer



POWDER

| CODE     | SIZE     | €/100         |     |       |
|----------|----------|---------------|-----|-------|
| FPCG1612 | 3,8 x 16 | <b>13,650</b> | 100 | 4.500 |
| FPCG1912 | 3,8 x 19 | <b>14,027</b> | 100 | -     |

## FP-CGD12

Knurled nails with 12 mm metal and plastic double washer



POWDER

| CODE      | SIZE     | €/100         |     |     |
|-----------|----------|---------------|-----|-----|
| FPCGD1612 | 3,8 x 16 | <b>17,167</b> | 100 | 100 |
| FPCGD1912 | 3,8 x 19 | <b>17,633</b> | 100 | 100 |

## FP-CL12

Standard nails with 12 mm metal washer

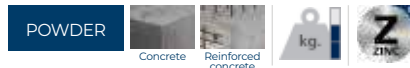



POWDER

| CODE     | SIZE     | €/100         |     |       |
|----------|----------|---------------|-----|-------|
| FPCL2212 | 3,8 x 22 | <b>12,953</b> | 100 | -     |
| FPCL2712 | 3,8 x 27 | <b>13,620</b> | 100 | 1.000 |
| FPCL3212 | 3,8 x 32 | <b>14,367</b> | 100 | 1.000 |
| FPCL3712 | 3,8 x 37 | <b>15,200</b> | 100 | -     |
| FPCL4212 | 3,8 x 42 | <b>16,107</b> | 100 | -     |
| FPCL4712 | 3,8 x 47 | <b>17,530</b> | 100 | 2.400 |

Nails for powder-actuated FP12 guns

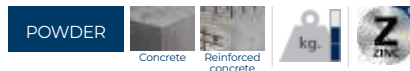
# FP-CL12



| CODE      | SIZE     | €/100  |  |
|-----------|----------|--------|--|
| FPCLD2212 | 3,8 x 22 | 16,793 | 100  |
| FPCLD2712 | 3,8 x 27 | 17,657 | 100  |
| FPCLD3212 | 3,8 x 32 | 18,660 | 100  |
| FPCLD3712 | 3,8 x 37 | 19,737 | 100  |
| FPCLD4212 | 3,8 x 42 | 20,893 | 100  |
| FPCLD4712 | 3,8 x 47 | 22,720 | 100  |

## FP-CLD12

Standard nails with a 12 mm metal and a plastic double washer



| CODE     | SIZE     | €/100  |  |
|----------|----------|--------|--|
| FPCT3212 | 3,8 x 32 | 37,847 | 100  |

## FP-CT12


Nails for false ceiling installation



Pistons for FP08GUN and FP12GUN guns

# FP-PIS

POWDER


| CODE       | SIZE | €/PC   |  |
|------------|------|--------|--|
| FPPIISCL08 | 8    | 56,095 | 1  |

## FP-PISCL08

Pistón for FP08GUN. Valid for nails: Ref: FP-AP y FP-C30



POWDER


| CODE       | SIZE | €/PC   |  |
|------------|------|--------|--|
| FPPIISPL08 | 8    | 55,821 | 1  |

## FP-PISPL08

Flat pistón for FP08GUN. Valid for nails: Ref: FP-CG, FP-CL, FP-AM, FP-CR, FP-PI.



POWDER


| CODE       | SIZE | €/PC   |  |
|------------|------|--------|--|
| FPPIISCL12 | 12   | 86,213 | 1  |

## FP-PISCL12

Pistón for FP12GUN. Valid for nails: Ref: FP-CG12, FP-CGD12, FP-CL12, FP-CLD12



POWDER


| CODE       | SIZE   | €/PC   |  |
|------------|--------|--------|--|
| FPPIISCM12 | M6 x 8 | 94,472 | 1  |

## FP-PISCM12

Pistón for FP12GUN. Valid for nails of Ø12, M6



POWDER

| CODE       | SIZE | €/PC   |  |
|------------|------|--------|--|
| FPPIISCT12 | 12   | 96,988 | 1  |

## FP-PISCT12

Pistón for FP12GUN. Valid for nails FPCT3212




# FG-GUN

Semiautomatic, wireless, gas-actuated nail gun

GAS

## FG-GUN

Semiautomatic, wireless, gas-actuated nail gun for drywall

| CODE    | SIZE                                 | €/PC      |  |
|---------|--------------------------------------|-----------|---|
| FG60GUN | Pistola gas / Gas gun / Pistolet gaz | 1.944,000 | 1   |



- TOOL CASE CONTENT**
- Gas gun
  - Charger
  - 2 batteries
  - Allen key
  - User manual


GUN SUPPLIED WITH COMPLETE KIT CASE

- Direct anchoring technique for light fixings: organising cabling, positioning of metallic profiles for the installation of plasterboard walls, etc.
- Fixing of metal or wood to concrete or blocks.
- Gun supplied with complete kit case, including battery charger.
- Long-lasting batteries.
- Suitable for nails up to 40 mm. long.
- Gas charge supplied with consumables.

## FG-GUNEL

Semiautomatic, wireless, gas-actuated nail gun for electricians

GAS

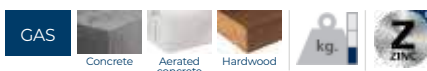
| CODE      | SIZE                                 | €/PC      |  |
|-----------|--------------------------------------|-----------|---|
| FG60GUNEL | Pistola gas / Gas gun / Pistolet gaz | 2.139,000 | 1   |



- TOOL CASE CONTENT**
- Gas gun
  - Charger
  - 2 batteries
  - Allen key
  - User manual
  - Barrel for electricians

Nails for gas-actuated guns

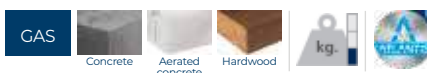
FG-CL





| CODE   | SIZE     | €/100         |  |
|--------|----------|---------------|--|
| FGCL15 | 2,6 x 15 | <b>10,527</b> | 1.000  |
| FGCL20 | 2,6 x 20 | <b>10,853</b> | 1.000  |
| FGCL25 | 2,6 x 25 | <b>11,030</b> | 1.000  |
| FGCL30 | 2,6 x 30 | <b>11,133</b> | 1.000  |
| FGCL35 | 2,6 x 35 | <b>12,143</b> | 1.000  |
| FGCL40 | 2,6 x 40 | <b>13,057</b> | 1.000  |

FG-CL

Standard nails



| CODE    | SIZE     | €/100         |  |  |
|---------|----------|---------------|---|--|
| FGCLH15 | 3,1 x 15 | <b>11,987</b> | 1.000   | -  |
| FGCLH17 | 3,1 x 17 | <b>12,223</b> | 1.000   | 5.000  |
| FGCLH19 | 3,1 x 19 | <b>12,223</b> | 1.000   | -  |
| FGCLH22 | 3,1 x 22 | <b>12,223</b> | 1.000   | -  |
| FGCLH27 | 3,1 x 27 | <b>12,787</b> | 1.000   | -  |
| FGCLH32 | 3,1 x 32 | <b>13,237</b> | 1.000   | -  |

FG-CLH

Nails for hard materials



Accessories for installation with gas gun

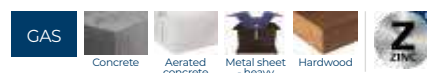
FG-AC





| CODE   | SIZE | €/100         |  |  |
|--------|------|---------------|---|--|
| OMEM06 | M6   | <b>55,747</b> | 100   | 1.000  |

OME

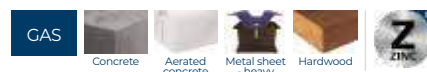
Universal anchor



| CODE     | SIZE | €/100         |  |  |
|----------|------|---------------|---|--|
| FGARAM25 | Ø25  | <b>17,343</b> | 200   | 4.800  |

FG-ARAM

Metallic washer



| CODE       | SIZE | €/PC           |  | PCS. X JAR |
|------------|------|----------------|---|------------|
| FGARAM25EP | Ø25  | <b>183,820</b> | 1   | 1.000      |

FG-ARAM EP

Metallic washer. Plastic container



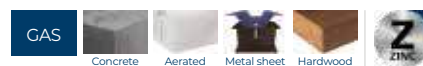


# FG-AC

Accessories for installation with gas gun

## FG-PLET

Threaded platen for rod



| CODE   | SIZE    | €/100          |     |     |
|--------|---------|----------------|-----|-----|
| FGPLET | M6 - M8 | <b>160,203</b> | 100 | 400 |

## AB-PID

Conduit clip with single hole for shooting



| CODE     | SIZE | €/100         |     |       |
|----------|------|---------------|-----|-------|
| ABPID016 | 16   | <b>11,860</b> | 100 | 1.200 |
| ABPID020 | 20   | <b>18,343</b> | 100 | 1.200 |
| ABPID025 | 25   | <b>21,500</b> | 100 | 600   |
| ABPID032 | 32   | <b>26,687</b> | 100 | 600   |

## FG-ABRA

Snap clamp



| CODE     | SIZE    | €/100         |     |     |
|----------|---------|---------------|-----|-----|
| FGABRA15 | 15 - 18 | <b>53,767</b> | 100 | -   |
| FGABRA20 | 20 - 25 | <b>56,823</b> | 50  | 200 |
| FGABRA25 | 25 - 32 | <b>68,320</b> | 50  | -   |

### INSTALLATION

GUN



## FG-BASE

Flange base




| CODE     | COLOR | €/100         |     |       |
|----------|-------|---------------|-----|-------|
| FGBASENE | BLACK | <b>14,597</b> | 100 | 1.200 |
| FGBASEGR | GREY  | <b>15,037</b> | 100 | 1.200 |

Accessories for gas gun

# FG-APG




| CODE   | SIZE | €/PC    |  |
|--------|------|---------|--|
| FGCAEL | 11   | 195,000 | 1  |

## FG-CAEL

Special pistol barrel for electricians




| CODE      | SIZE | €/PC    |  |
|-----------|------|---------|--|
| FGCLCAR40 | 40   | 276,100 | 1  |

## FG-CLCAR

Gun magazine for 40 nails




| CODE   | SIZE            | €/PC    |  |
|--------|-----------------|---------|--|
| FGIMAN | Øinterior 11,25 | 119,057 | 1  |

## FG-IMAN

Magnet



| CODE    | €/PC    |  |
|---------|---------|---|
| FG60BAT | 281,277 | 1   |

## FG-BAT

FP60GUN Battery



| CODE    | €/PC    |  |
|---------|---------|---|
| FG60CAR | 215,897 | 1   |

## FG-CAR

FP60GUN Charger



| CODE    | SIZE   | €/PC   |  |  |
|---------|--------|--------|---|--|
| FG60GAS | 80 ml. | 46,013 | 1   | 12   |

## FG-GAS

Gas cartridge







# SCREWS FOR DECKING AND FAÇADES



# DIN-7504-K Self-drilling screw with hexagonal head

## DIN-7504-K

Screw



Available in different colours



Available in different coatings. Ask for price and delivery time.



| CODE    | SIZE      | €/100  |   |       |        | CODE    | SIZE      | €/100   |    |     |       |
|---------|-----------|--------|---|-------|--------|---------|-----------|---------|----|-----|-------|
| ABE3509 | 3,5 x 9,5 | 2,367  | 6 | 1.000 | 24.000 | ABE5563 | 5,5 x 6,3 | 14,213  | 8  | 250 | 1.000 |
| ABE3513 | 3,5 x 13  | 2,347  | 6 | 1.000 | 12.000 | ABE5575 | 5,5 x 7,5 | 17,357  | 8  | 250 | 1.500 |
| ABE3516 | 3,5 x 16  | 2,757  | 6 | 1.000 | 12.000 | ABE6319 | 6,3 x 19  | 9,650   | 10 | 500 | 3.000 |
| ABE3519 | 3,5 x 19  | 2,800  | 6 | 1.000 | 12.000 | ABE6325 | 6,3 x 25  | 10,613  | 10 | 500 | 3.000 |
| ABE4213 | 4,2 x 13  | 3,167  | 7 | 1.000 | 12.000 | ABE6332 | 6,3 x 32  | 12,550  | 10 | 500 | 2.000 |
| ABE4216 | 4,2 x 16  | 3,500  | 7 | 1.000 | 8.000  | ABE6338 | 6,3 x 38  | 13,573  | 10 | 500 | 2.000 |
| ABE4219 | 4,2 x 19  | 4,057  | 7 | 1.000 | 8.000  | ABE6350 | 6,3 x 50  | 16,547  | 10 | 250 | 1.500 |
| ABE4225 | 4,2 x 25  | 4,590  | 7 | 500   | 6.000  | ABE6363 | 6,3 x 63  | 19,680  | 10 | 250 | 1.500 |
| ABE4232 | 4,2 x 32  | 5,277  | 7 | 500   | 6.000  | ABE6375 | 6,3 x 75  | 23,773  | 10 | 250 | 1.000 |
| ABE4238 | 4,2 x 38  | 6,007  | 7 | 500   | 6.000  | ABE6380 | 6,3 x 80  | 25,413  | 10 | 250 | 1.000 |
| ABE4813 | 4,8 x 13  | 4,253  | 8 | 1.000 | 8.000  | ABE6390 | 6,3 x 90  | 31,723  | 10 | 250 | 750   |
| ABE4816 | 4,8 x 16  | 4,607  | 8 | 1.000 | 6.000  | ABE6310 | 6,3 x 100 | 32,850  | 10 | 100 | 600   |
| ABE4819 | 4,8 x 19  | 4,700  | 8 | 500   | 6.000  | ABE6311 | 6,3 x 110 | 38,823  | 10 | 100 | 600   |
| ABE4825 | 4,8 x 25  | 5,560  | 8 | 500   | 6.000  | ABE6312 | 6,3 x 120 | 46,743  | 10 | 100 | 600   |
| ABE4832 | 4,8 x 32  | 6,617  | 8 | 500   | 3.000  | ABE6313 | 6,3 x 130 | 51,873  | 10 | 100 | 600   |
| ABE4838 | 4,8 x 38  | 7,427  | 8 | 500   | 3.000  | ABE6314 | 6,3 x 140 | 58,307  | 10 | 100 | 600   |
| ABE5519 | 5,5 x 19  | 6,433  | 8 | 500   | 6.000  | ABE6315 | 6,3 x 150 | 84,007  | 10 | 100 | 600   |
| ABE5522 | 5,5 x 22  | 6,573  | 8 | 500   | 4.000  | ABE6316 | 6,3 x 160 | 94,260  | 10 | 100 | 400   |
| ABE5525 | 5,5 x 25  | 7,457  | 8 | 500   | 4.000  | ABE6318 | 6,3 x 180 | 121,973 | 10 | 100 | 300   |
| ABE5532 | 5,5 x 32  | 8,637  | 8 | 500   | 3.000  | ABE6320 | 6,3 x 200 | 154,033 | 10 | 100 | 300   |
| ABE5538 | 5,5 x 38  | 9,807  | 8 | 500   | 3.000  | ABE6322 | 6,3 x 220 | 178,363 | 10 | 100 | 200   |
| ABE5550 | 5,5 x 50  | 11,857 | 8 | 500   | 2.000  | ABE6324 | 6,3 x 240 | 222,640 | 10 | 100 | 200   |

### Blister

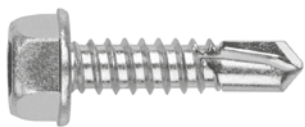
| CODE      | SIZE      | €/BAG | PCS | BAGS |
|-----------|-----------|-------|-----|------|
| BZABE3509 | 3,5 x 9,5 | 2,302 | 20  | 20   |
| BZABE3513 | 3,5 x 13  | 2,302 | 20  | 20   |
| BZABE4213 | 4,2 x 13  | 2,302 | 20  | 20   |
| BZABE4216 | 4,2 x 16  | 2,302 | 20  | 20   |
| BZABE4219 | 4,2 x 19  | 2,302 | 20  | 20   |
| BZABE4225 | 4,2 x 25  | 2,302 | 10  | 20   |
| BZABE4813 | 4,8 x 13  | 2,302 | 20  | 20   |
| BZABE4816 | 4,8 x 16  | 2,302 | 20  | 20   |
| BZABE4819 | 4,8 x 19  | 2,302 | 10  | 20   |
| BZABE4825 | 4,8 x 25  | 2,302 | 10  | 20   |
| BZABE4832 | 4,8 x 32  | 2,302 | 10  | 20   |
| BZABE4838 | 4,8 x 38  | 2,302 | 10  | 20   |
| BZABE5519 | 5,5 x 19  | 2,302 | 10  | 20   |
| BZABE5522 | 5,5 x 22  | 2,302 | 10  | 20   |
| BZABE5525 | 5,5 x 25  | 2,302 | 10  | 20   |
| BZABE5532 | 5,5 x 32  | 2,302 | 10  | 20   |
| BZABE5538 | 5,5 x 38  | 2,302 | 10  | 20   |
| BZABE5550 | 5,5 x 50  | 2,302 | 10  | 20   |
| BZABE6325 | 6,3 x 25  | 2,302 | 10  | 20   |
| BZABE6332 | 6,3 x 32  | 2,302 | 10  | 20   |
| BZABE6338 | 6,3 x 38  | 2,302 | 10  | 20   |
| BZABE6350 | 6,3 x 50  | 2,302 | 5   | 20   |

### Window box

| CODE     | SIZE      | €/BOX  | PCS | BOXES |
|----------|-----------|--------|-----|-------|
| VABE3509 | 3,5 x 9,5 | 6,001  | 225 | 8     |
| VABE3513 | 3,5 x 13  | 6,286  | 200 | 8     |
| VABE4213 | 4,2 x 13  | 6,263  | 150 | 8     |
| VABE4216 | 4,2 x 16  | 6,852  | 150 | 8     |
| VABE4219 | 4,2 x 19  | 8,087  | 150 | 8     |
| VABE4225 | 4,2 x 25  | 4,705  | 75  | 8     |
| VABE4232 | 4,2 x 32  | 5,558  | 75  | 8     |
| VABE4813 | 4,8 x 13  | 8,414  | 150 | 8     |
| VABE4816 | 4,8 x 16  | 9,291  | 150 | 8     |
| VABE4819 | 4,8 x 19  | 10,127 | 150 | 8     |
| VABE4825 | 4,8 x 25  | 11,426 | 150 | 8     |
| VABE4832 | 4,8 x 32  | 9,491  | 110 | 8     |
| VABE4838 | 4,8 x 38  | 8,379  | 85  | 8     |
| VABE5519 | 5,5 x 19  | 10,694 | 125 | 8     |
| VABE5522 | 5,5 x 22  | 11,241 | 125 | 8     |
| VABE5525 | 5,5 x 25  | 12,400 | 125 | 8     |
| VABE5532 | 5,5 x 32  | 9,769  | 85  | 8     |
| VABE5538 | 5,5 x 38  | 10,234 | 80  | 8     |
| VABE5550 | 5,5 x 50  | 9,272  | 60  | 8     |
| VABE5563 | 5,5 x 63  | 7,448  | 40  | 8     |
| VABE6319 | 6,3 x 19  | 12,847 | 100 | 8     |
| VABE6325 | 6,3 x 25  | 12,480 | 90  | 8     |
| VABE6332 | 6,3 x 32  | 11,483 | 70  | 8     |
| VABE6338 | 6,3 x 38  | 10,643 | 60  | 8     |
| VABE6350 | 6,3 x 50  | 8,648  | 40  | 8     |
| VABE6363 | 6,3 x 63  | 6,615  | 25  | 8     |

## DIN-7504-K A2

Screw. A2 Stainless steel



| CODE     | SIZE     | €/100  |    |       |        |
|----------|----------|--------|----|-------|--------|
| ABEI4213 | 4,2 x 13 | 18,020 | 7  | 1.000 | 12.000 |
| ABEI4216 | 4,2 x 16 | 20,217 | 7  | 1.000 | 8.000  |
| ABEI4219 | 4,2 x 19 | 20,953 | 7  | 1.000 | 8.000  |
| ABEI4813 | 4,8 x 13 | 25,490 | 8  | 1.000 | 8.000  |
| ABEI4816 | 4,8 x 16 | 24,907 | 8  | 500   | 6.000  |
| ABEI4819 | 4,8 x 19 | 26,953 | 8  | 500   | 6.000  |
| ABEI4825 | 4,8 x 25 | 30,180 | 8  | 500   | 6.000  |
| ABEI4832 | 4,8 x 32 | 35,887 | 8  | 500   | 3.000  |
| ABEI5519 | 5,5 x 19 | 37,210 | 8  | 500   | 6.000  |
| ABEI5522 | 5,5 x 22 | 39,703 | 8  | 500   | 4.000  |
| ABEI5525 | 5,5 x 25 | 42,193 | 8  | 500   | 6.000  |
| ABEI6319 | 6,3 x 19 | 56,400 | 10 | 500   | 3.000  |
| ABEI6325 | 6,3 x 25 | 64,167 | 10 | 500   | 3.000  |





Self-drilling screw with hexagonal head

# DIN-7504-K



## DIN-7504-K + ARVUL

Screw with vulcanized EPDM-steel washer

| CODE      | SIZE          | €/100  |    |       |       |
|-----------|---------------|--------|----|-------|-------|
| ABE144219 | 4,2 x 19 P14  | 9,403  | 7  | 1.000 | 4.000 |
| ABE144225 | 4,2 x 25 P14  | 11,123 | 7  | 500   | 3.000 |
| ABE144816 | 4,8 x 16 P14  | 9,033  | 8  | 1.000 | 4.000 |
| ABE144819 | 4,8 x 19 P14  | 9,690  | 8  | 1.000 | 4.000 |
| ABE144825 | 4,8 x 25 P14  | 10,723 | 8  | 1.000 | 4.000 |
| ABE144832 | 4,8 x 32 P14  | 14,740 | 8  | 500   | 3.000 |
| ABE144838 | 4,8 x 38 P14  | 16,187 | 8  | 500   | 3.000 |
| ABE145522 | 5,5 x 22 P14  | 12,893 | 8  | 1.000 | 4.000 |
| ABE145532 | 5,5 x 32 P14  | 14,567 | 8  | 1.000 | 3.000 |
| ABE164219 | 4,2 x 19 P16  | 11,630 | 7  | 1.000 | 4.000 |
| ABE164816 | 4,8 x 16 P16  | 10,547 | 8  | 1.000 | 4.000 |
| ABE164819 | 4,8 x 19 P16  | 10,540 | 8  | 1.000 | 3.000 |
| ABE164825 | 4,8 x 25 P16  | 11,150 | 8  | 1.000 | 3.000 |
| ABE164832 | 4,8 x 32 P16  | 15,557 | 8  | 500   | 3.000 |
| ABE164838 | 4,8 x 38 P16  | 16,847 | 8  | 500   | 2.000 |
| ABE165519 | 5,5 x 19 P16  | 12,287 | 8  | 1.000 | 3.000 |
| ABE165522 | 5,5 x 22 P16  | 11,747 | 8  | 1.000 | 3.000 |
| ABE165525 | 5,5 x 25 P16  | 13,697 | 8  | 1.000 | 3.000 |
| ABE165532 | 5,5 x 32 P16  | 14,387 | 8  | 1.000 | 2.000 |
| ABE165538 | 5,5 x 38 P16  | 16,307 | 8  | 1.000 | 2.000 |
| ABE165550 | 5,5 x 50 P16  | 18,990 | 8  | 500   | 1.500 |
| ABE165563 | 5,5 x 63 P16  | 21,587 | 8  | 250   | 1.500 |
| ABE165575 | 5,5 x 75 P16  | 25,763 | 8  | 250   | 1.000 |
| ABE166319 | 6,3 x 19 P16  | 15,823 | 10 | 500   | 3.000 |
| ABE166325 | 6,3 x 25 P16  | 16,047 | 10 | 500   | 2.000 |
| ABE166332 | 6,3 x 32 P16  | 20,040 | 10 | 500   | 2.000 |
| ABE166338 | 6,3 x 38 P16  | 21,367 | 10 | 500   | 2.000 |
| ABE166350 | 6,3 x 50 P16  | 25,337 | 10 | 500   | 1.000 |
| ABE166363 | 6,3 x 63 P16  | 28,367 | 10 | 250   | 1.000 |
| ABE166375 | 6,3 x 75 P16  | 34,780 | 10 | 250   | 750   |
| ABE166380 | 6,3 x 80 P16  | 37,627 | 10 | 100   | 600   |
| ABE166390 | 6,3 x 90 P16  | 44,687 | 10 | 100   | 600   |
| ABE166310 | 6,3 x 100 P16 | 46,657 | 10 | 100   | 600   |
| ABE166311 | 6,3 x 110 P16 | 52,300 | 10 | 100   | 600   |
| ABE166312 | 6,3 x 120 P16 | 61,847 | 10 | 100   | 400   |
| ABE166313 | 6,3 x 130 P16 | 67,440 | 10 | 100   | 400   |
| ABE166314 | 6,3 x 140 P16 | 73,467 | 10 | 100   | 400   |

| CODE      | SIZE          | €/100  |    |     |       |
|-----------|---------------|--------|----|-----|-------|
| ABE184819 | 4,8 x 19 P18  | 13,890 | 8  | 500 | 3.000 |
| ABE184825 | 4,8 x 25 P18  | 14,740 | 8  | 500 | 3.000 |
| ABE184838 | 4,8 x 38 P18  | 18,227 | 8  | 500 | 2.000 |
| ABE185522 | 5,5 x 22 P18  | 14,270 | 8  | 500 | 3.000 |
| ABE185525 | 5,5 x 25 P18  | 15,847 | 8  | 500 | 3.000 |
| ABE185532 | 5,5 x 32 P18  | 17,117 | 8  | 500 | 2.000 |
| ABE185538 | 5,5 x 38 P18  | 18,270 | 8  | 500 | 2.000 |
| ABE185550 | 5,5 x 50 P18  | 24,193 | 8  | 500 | 1.500 |
| ABE185563 | 5,5 x 63 P18  | 23,303 | 8  | 250 | 1.000 |
| ABE186319 | 6,3 x 19 P18  | 17,727 | 10 | 500 | 3.000 |
| ABE186325 | 6,3 x 25 P18  | 17,427 | 10 | 500 | 2.000 |
| ABE186332 | 6,3 x 32 P18  | 21,697 | 10 | 500 | 2.000 |
| ABE186338 | 6,3 x 38 P18  | 21,210 | 10 | 250 | 1.500 |
| ABE186350 | 6,3 x 50 P18  | 25,167 | 10 | 250 | 1.000 |
| ABE186363 | 6,3 x 63 P18  | 29,717 | 10 | 250 | 1.000 |
| ABE186375 | 6,3 x 75 P18  | 33,577 | 10 | 250 | 750   |
| ABE186380 | 6,3 x 80 P18  | 42,307 | 10 | 100 | 600   |
| ABE186390 | 6,3 x 90 P18  | 40,203 | 10 | 100 | 600   |
| ABE186310 | 6,3 x 100 P18 | 43,917 | 10 | 100 | 400   |
| ABE186311 | 6,3 x 110 P18 | 54,917 | 10 | 100 | 400   |
| ABE186312 | 6,3 x 120 P18 | 65,897 | 10 | 100 | 400   |
| ABE186313 | 6,3 x 130 P18 | 82,757 | 10 | 100 | 400   |
| ABE186314 | 6,3 x 140 P18 | 91,110 | 10 | 100 | 400   |
| ABE255522 | 5,5 x 22 P25  | 18,027 | 8  | 500 | 1.500 |
| ABE255525 | 5,5 x 25 P25  | 21,633 | 8  | 500 | 1.500 |
| ABE256325 | 6,3 x 25 P25  | 22,783 | 10 | 500 | 1.500 |
| ABE256332 | 6,3 x 32 P25  | 27,513 | 10 | 500 | 1.000 |
| ABE256338 | 6,3 x 38 P25  | 30,540 | 10 | 250 | 750   |
| ABE256350 | 6,3 x 50 P25  | 34,460 | 10 | 250 | 750   |
| ABE256363 | 6,3 x 63 P25  | 38,957 | 10 | 100 | 600   |
| ABE256380 | 6,3 x 80 P25  | 48,947 | 10 | 100 | 300   |
| ABE256390 | 6,3 x 90 P25  | 50,610 | 10 | 100 | 400   |
| ABE256310 | 6,3 x 100 P25 | 55,120 | 10 | 100 | 400   |
| ABE256311 | 6,3 x 110 P25 | 61,313 | 10 | 100 | 300   |
| ABE256312 | 6,3 x 120 P25 | 67,597 | 10 | 100 | 300   |
| ABE256313 | 6,3 x 130 P25 | 77,777 | 10 | 100 | 300   |
| ABE256314 | 6,3 x 140 P25 | 85,043 | 10 | 100 | 200   |



Available in different colours

Available in different coatings. Ask for price and delivery time.



### Blister

| CODE        | SIZE         | €/BAG | PCS BAG | BAGS |
|-------------|--------------|-------|---------|------|
| BZABE144819 | 4,8 x 19 P14 | 2,302 | 18      | 10   |
| BZABE144825 | 4,8 x 25 P14 | 2,302 | 18      | 10   |
| BZABE164819 | 4,8 x 19 P16 | 2,302 | 18      | 10   |
| BZABE165522 | 5,5 x 22 P16 | 2,302 | 15      | 10   |
| BZABE165525 | 5,5 x 25 P16 | 2,302 | 15      | 10   |
| BZABE165532 | 5,5 x 32 P16 | 2,302 | 12      | 10   |
| BZABE165538 | 5,5 x 38 P16 | 2,302 | 12      | 10   |
| BZABE165550 | 5,5 x 50 P16 | 2,302 | 10      | 10   |
| BZABE166325 | 6,3 x 25 P16 | 2,302 | 10      | 10   |
| BZABE166332 | 6,3 x 32 P16 | 2,302 | 8       | 10   |
| BZABE166338 | 6,3 x 38 P16 | 2,302 | 8       | 10   |

### Window box

| CODE       | SIZE         | €/BOX  | PCS BOX | BOXES |
|------------|--------------|--------|---------|-------|
| VABE144819 | 4,8 x 19 P14 | 12,315 | 100     | 8     |
| VABE144825 | 4,8 x 25 P14 | 10,916 | 80      | 8     |
| VABE164819 | 4,8 x 19 P16 | 8,997  | 70      | 8     |
| VABE165522 | 5,5 x 22 P16 | 9,928  | 70      | 8     |
| VABE165525 | 5,5 x 25 P16 | 10,301 | 60      | 8     |
| VABE165532 | 5,5 x 32 P16 | 8,902  | 50      | 8     |
| VABE165538 | 5,5 x 38 P16 | 9,066  | 45      | 8     |
| VABE165550 | 5,5 x 50 P16 | 7,973  | 35      | 8     |
| VABE166325 | 6,3 x 25 P16 | 9,687  | 50      | 8     |
| VABE166332 | 6,3 x 32 P16 | 12,600 | 50      | 8     |
| VABE166338 | 6,3 x 38 P16 | 10,742 | 40      | 8     |



## DIN-7504-K CP + ARVUL

Plastic container

| CODE        | SIZE         | €/UD    |    |   | PCS. X JAR |
|-------------|--------------|---------|----|---|------------|
| ABE144819CP | 4,8 x 19 P14 | 125,981 | 8  | 1 | 1.250      |
| ABE164819CP | 4,8 x 19 P16 | 130,226 | 8  | 1 | 1.250      |
| ABE165522CP | 5,5 x 22 P16 | 152,715 | 8  | 1 | 1.250      |
| ABE166325CP | 6,3 x 25 P16 | 125,175 | 10 | 1 | 750        |



# DIN-7504-K RE Self-drilling screw with reduced drill point and 8 mm hexagonal head

## DIN-7504-K RE

Screw



Available in different colours



Available in different coatings. Ask for price and delivery time.



| CODE    | SIZE     | €/100         |   |     |       |
|---------|----------|---------------|---|-----|-------|
| ARE4816 | 4,8 x 16 | <b>5,333</b>  | 8 | 500 | 6.000 |
| ARE4819 | 4,8 x 19 | <b>5,717</b>  | 8 | 500 | 6.000 |
| ARE5522 | 5,5 x 22 | <b>8,223</b>  | 8 | 500 | 4.000 |
| ARE6320 | 6,3 x 20 | <b>9,113</b>  | 8 | 500 | 3.000 |
| ARE6325 | 6,3 x 25 | <b>10,697</b> | 8 | 500 | 3.000 |
| ARE6332 | 6,3 x 32 | <b>14,050</b> | 8 | 500 | 3.000 |
| ARE6338 | 6,3 x 38 | <b>14,990</b> | 8 | 500 | 3.000 |
| ARE6350 | 6,3 x 50 | <b>18,273</b> | 8 | 250 | 1.500 |
| ARE6363 | 6,3 x 63 | <b>21,993</b> | 8 | 250 | 1.500 |
| ARE6380 | 6,3 x 80 | <b>28,777</b> | 8 | 250 | 1.000 |

## DIN-7504-K RE + ARVUL

Screw with vulcanized EPDM-steel washer



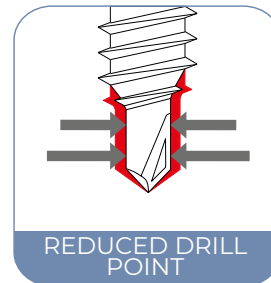
Available in different colours



Available in different coatings. Ask for price and delivery time.



| CODE      | SIZE         | €/100         |   |     |       |
|-----------|--------------|---------------|---|-----|-------|
| ARE164816 | 4,8 x 16 P16 | <b>13,220</b> | 8 | 500 | 3.000 |
| ARE164819 | 4,8 x 19 P16 | <b>13,827</b> | 8 | 500 | 3.000 |
| ARE165522 | 5,5 x 22 P16 | <b>15,633</b> | 8 | 500 | 3.000 |
| ARE166320 | 6,3 x 20 P16 | <b>15,393</b> | 8 | 500 | 3.000 |
| ARE166325 | 6,3 x 25 P16 | <b>16,813</b> | 8 | 500 | 3.000 |
| ARE166332 | 6,3 x 32 P16 | <b>23,513</b> | 8 | 500 | 2.000 |
| ARE166338 | 6,3 x 38 P16 | <b>22,803</b> | 8 | 500 | 2.000 |
| ARE166350 | 6,3 x 50 P16 | <b>26,993</b> | 8 | 250 | 1.500 |



## NEW DIN-7504-K RE NI + ARVUL

Atlantis C4-M reduced point self-drilling screw + Vulcanised EPDM-stainless steel washer A2



| CODE       | SIZE           | €/100         |   |     |       |
|------------|----------------|---------------|---|-----|-------|
| AREN166325 | 6,25 x 25 P-16 | <b>32,300</b> | 8 | 500 | 3.000 |





## Self-drilling screw for beam, hexagonal head

## AUTO



| CODE    | SIZE                 | €/100  |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|---------|----------------------|--------|---|------------------------|----------------|-----|-------|
| AUTO532 | 5,5 x 32             | 14,507 | 8 | 21,5                   | 4,00-12,00     | 500 | 3.000 |
| AUTO538 | 5,5 x 38             | 15,857 | 8 | 27,5                   | 4,00-12,00     | 500 | 3.000 |
| AUTO550 | <b>NEW</b> 5,5 x 50  | 20,353 | 8 | 39,5                   | 4,00-12,00     | 500 | 2.000 |
| AUTO510 | <b>NEW</b> 5,5 x 100 | 39,197 | 8 | 80                     | 4,00-12,00     | 100 | 600   |
| AUTO580 | <b>NEW</b> 5,5 x 80  | 30,633 | 8 | 67                     | 4,00-12,00     | 250 | 1.000 |
| AUTO560 | <b>NEW</b> 5,5 x 60  | 23,390 | 8 | 49,5                   | 4,00-12,00     | 250 | 1.500 |

## AUTO

Screw



Available in different coatings. Ask for price and delivery time.



| CODE      | SIZE                     | €/100  |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|-----------|--------------------------|--------|---|------------------------|----------------|-----|-------|
| AUTO16532 | 5,5 x 32 P16             | 17,943 | 8 | 19,5                   | 4,00-12,00     | 500 | 2.000 |
| AUTO16538 | 5,5 x 38 P16             | 19,103 | 8 | 25,5                   | 4,00-12,00     | 500 | 2.000 |
| AUTO16510 | <b>NEW</b> 5,5 x 100 P16 | 46,037 | 8 | 78                     | 4,00-12,00     | 100 | 600   |
| AUTO16550 | <b>NEW</b> 5,5 x 50 P16  | 25,980 | 8 | 37,5                   | 4,00-12,00     | 500 | 2.000 |
| AUTO16560 | <b>NEW</b> 5,5 x 60 P16  | 31,177 | 8 | 47,5                   | 4,00-12,00     | 250 | 1.000 |
| AUTO16580 | <b>NEW</b> 5,5 x 80 P16  | 38,243 | 8 | 65                     | 4,00-12,00     | 250 | 1.000 |

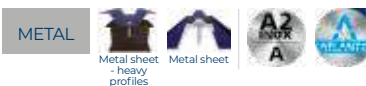
## AUTO + ARVUL

Screw with vulcanized EPDM-steel washer



Available in different coatings. Ask for price and delivery time.

## Bimetal, stainless-steel, self-drilling screw with hexagonal head ABE BIMETAL



| CODE    | SIZE     | €/100   |    | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|---------|----------|---------|----|------------------------|----------------|-----|-------|
| BIE4825 | 4,8 x 25 | 80,163  | 8  | 9                      | 1,75-4,40      | 500 | 6.000 |
| BIE5525 | 5,5 x 25 | 91,973  | 8  | 5                      | 1,75-5,25      | 500 | 6.000 |
| BIE5532 | 5,5 x 32 | 107,917 | 8  | 12                     | 1,75-5,25      | 500 | 3.000 |
| BIE5538 | 5,5 x 38 | 112,303 | 8  | 18                     | 1,75-5,25      | 500 | 3.000 |
| BIE5550 | 5,5 x 50 | 129,620 | 8  | 30                     | 1,75-5,25      | 500 | 2.000 |
| BIE5558 | 5,5 x 58 | 144,267 | 8  | 38                     | 1,75-5,25      | 250 | 1.500 |
| BIE5565 | 5,5 x 65 | 150,790 | 8  | 45                     | 1,75-5,25      | 250 | 1.500 |
| BIE5580 | 5,5 x 80 | 177,900 | 8  | 60                     | 1,75-5,25      | 250 | 1.000 |
| BIE6325 | 6,3 x 25 | 98,143  | 10 | 7                      | 2,50-6,00      | 500 | 3.000 |

## ABE BIMETAL

Screw



| CODE      | SIZE         | €/100   |    | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|-----------|--------------|---------|----|------------------------|----------------|-----|-------|
| BIE164825 | 4,8 x 25 P16 | 94,107  | 8  | 7                      | 1,75-4,40      | 500 | 2.000 |
| BIE165525 | 5,5 x 25 P16 | 109,027 | 8  | 3                      | 1,75-5,25      | 500 | 2.000 |
| BIE165532 | 5,5 x 32 P16 | 126,733 | 8  | 10                     | 1,75-5,25      | 500 | 2.000 |
| BIE165538 | 5,5 x 38 P16 | 130,457 | 8  | 16                     | 1,75-5,25      | 500 | 1.500 |
| BIE165550 | 5,5 x 50 P16 | 152,160 | 8  | 28                     | 1,75-5,25      | 500 | 1.500 |
| BIE165558 | 5,5 x 58 P16 | 163,713 | 8  | 36                     | 1,75-5,25      | 250 | 1.500 |
| BIE165565 | 5,5 x 65 P16 | 170,383 | 8  | 43                     | 1,75-5,25      | 250 | 1.500 |
| BIE165580 | 5,5 x 80 P16 | 198,270 | 8  | 58                     | 1,75-5,25      | 250 | 1.000 |
| BIE166325 | 6,3 x 25 P16 | 115,973 | 10 | 5                      | 2,50-6,00      | 500 | 2.000 |

## ABE BIMETAL + ARVUL

Screw with vulcanized EPDM-steel washer



# AUTO BIMETAL

Bimetal, stainless steel, self-drilling screw for beam with hexagonal head

## AUTO BIMETAL

Screw



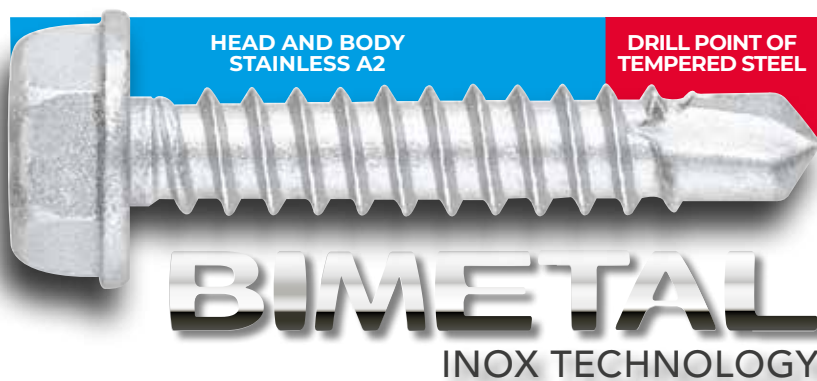
| CODE      | SIZE      | €/100          |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|-----------|-----------|----------------|---|------------------------|----------------|-----|-------|
| BAUTO5540 | 5,5 x 40  | <b>118,160</b> | 8 | 10                     | 4,00-12,00     | 500 | 3.000 |
| BAUTO5550 | 5,5 x 50  | <b>167,780</b> | 8 | 20                     | 4,00-12,00     | 500 | 3.000 |
| BAUTO5565 | 5,5 x 65  | <b>175,277</b> | 8 | 35                     | 4,00-12,00     | 250 | 1.500 |
| BAUTO5580 | 5,5 x 80  | <b>220,313</b> | 8 | 50                     | 4,00-12,00     | 250 | 1.000 |
| BAUTO5510 | 5,5 x 100 | <b>222,783</b> | 8 | 70                     | 4,00-12,00     | 100 | 600   |

## AUTO BIMETAL + ARVUL

Screw with vulcanized EPDM-steel washer



| CODE        | SIZE          | €/100          |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|-------------|---------------|----------------|---|------------------------|----------------|-----|-------|
| BAUTO165540 | 5,5 x 40 P16  | <b>143,097</b> | 8 | 8                      | 4,00-12,00     | 500 | 1.500 |
| BAUTO165550 | 5,5 x 50 P16  | <b>193,447</b> | 8 | 18                     | 4,00-12,00     | 500 | 1.500 |
| BAUTO165565 | 5,5 x 65 P16  | <b>199,873</b> | 8 | 33                     | 4,00-12,00     | 250 | 1.500 |
| BAUTO165580 | 5,5 x 80 P16  | <b>234,923</b> | 8 | 48                     | 4,00-12,00     | 250 | 1.000 |
| BAUTO165510 | 5,5 x 100 P16 | <b>247,673</b> | 8 | 68                     | 4,00-12,00     | 100 | 600   |



The benefits of a steel self-drilling screw with the anti-corrosion resistance of a stainless

**ATLANTIS C3-H COATING**

# AUE

Self-tapping screw with hexagonal head

## AUE

Screw



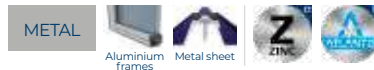
| CODE    | SIZE      | €/100         |    |  |     |       |
|---------|-----------|---------------|----|--|-----|-------|
| AUE6319 | 6,3 x 19  | <b>8,563</b>  | 10 |  | 500 | 3.000 |
| AUE6325 | 6,3 x 25  | <b>9,267</b>  | 10 |  | 500 | 3.000 |
| AUE6332 | 6,3 x 32  | <b>10,997</b> | 10 |  | 500 | 2.000 |
| AUE6340 | 6,3 x 40  | <b>12,263</b> | 10 |  | 500 | 2.000 |
| AUE6350 | 6,3 x 50  | <b>14,117</b> | 10 |  | 500 | 1.500 |
| AUE6360 | 6,3 x 60  | <b>17,050</b> | 10 |  | 250 | 1.000 |
| AUE6380 | 6,3 x 80  | <b>22,830</b> | 10 |  | 250 | 1.000 |
| AUE6310 | 6,3 x 100 | <b>29,753</b> | 10 |  | 250 | 750   |
| AUE6311 | 6,3 x 110 | <b>35,980</b> | 10 |  | 250 | 750   |
| AUE6312 | 6,3 x 120 | <b>38,403</b> | 10 |  | 250 | 750   |
| AUE6313 | 6,3 x 130 | <b>47,217</b> | 10 |  | 250 | 750   |
| AUE6314 | 6,3 x 140 | <b>54,130</b> | 10 |  | 250 | 500   |
| AUE6315 | 6,3 x 150 | <b>66,533</b> | 10 |  | 100 | 400   |




Available in different colours

Available in different coatings. Ask for price and delivery time.

Self-tapping screw with hexagonal head

AUE



| CODE      | SIZE          | €/100  |  |  |  |
|-----------|---------------|--------|---|---|---|
| AUE166319 | 6,3 x 19 P16  | 14,817 | 10  | 500   | 2.000   |
| AUE166325 | 6,3 x 25 P16  | 15,700 | 10  | 500   | 2.000   |
| AUE166332 | 6,3 x 32 P16  | 17,417 | 10  | 500   | 2.000   |
| AUE166340 | 6,3 x 40 P16  | 19,347 | 10  | 500   | 1.500   |
| AUE166350 | 6,3 x 50 P16  | 21,577 | 10  | 500   | 1.500   |
| AUE166360 | 6,3 x 60 P16  | 26,307 | 10  | 250   | 1.000   |
| AUE166380 | 6,3 x 80 P16  | 33,567 | 10  | 250   | 750   |
| AUE186325 | 6,3 x 25 P18  | 16,767 | 10  | 500   | 2.000   |
| AUE186332 | 6,3 x 32 P18  | 19,233 | 10  | 500   | 1.500   |
| AUE186340 | 6,3 x 40 P18  | 23,320 | 10  | 500   | 1.500   |
| AUE186350 | 6,3 x 50 P18  | 23,623 | 10  | 500   | 1.500   |
| AUE186360 | 6,3 x 60 P18  | 28,440 | 10  | 250   | 1.000   |
| AUE186380 | 6,3 x 80 P18  | 36,870 | 10  | 250   | 750   |
| AUE186310 | 6,3 x 100 P18 | 43,050 | 10  | 250   | 750   |
| AUE186311 | 6,3 x 110 P18 | 48,787 | 10  | 250   | 500   |
| AUE186312 | 6,3 x 120 P18 | 56,117 | 10  | 100   | 400   |
| AUE186313 | 6,3 x 130 P18 | 65,590 | 10  | 100   | 400   |
| AUE186314 | 6,3 x 140 P18 | 71,193 | 10  | 100   | 400   |
| AUE186315 | 6,3 x 150 P18 | 72,923 | 10  | 100   | 400   |
| AUE256325 | 6,3 x 25 P25  | 26,947 | 10  | 500   | 1.500   |

AUE + ARVUL

Screw with vulcanized EPDM-steel washer





Available in different colours



Available in different coatings. Ask for price and delivery time.



| CODE        | SIZE           | €/100  |  |  |
|-------------|----------------|--------|---|---|
| AUENI166325 | 6,25 x 25 P-16 | 38,000 | 500   | 2.000   |

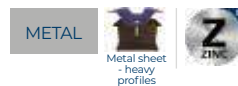
AUE NI + ARVUL **NEW**




Atlantis C4-M self-tapping screw + EPDM-stainless steel vulcanised washer A2



Self-drilling screw with hexagonal head for sandwich panels

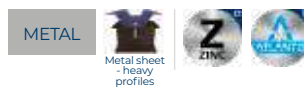
PS






| CODE    | SIZE            | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|-----------------|--------|---|------------------------|----------------|---|---|
| PS55060 | 5,5 / 6,3 x 60  | 18,387 | 8   | 31 -45                 | 1,50-6,00      | 500   | 1.500   |
| PS55082 | 5,5 / 6,3 x 82  | 24,997 | 8   | 43 - 67                | 1,50-6,00      | 500   | 1.000   |
| PS55098 | 5,5 / 6,3 x 98  | 30,137 | 8   | 54 - 83                | 1,50-6,00      | 500   | 1.000   |
| PS55115 | 5,5 / 6,3 x 115 | 34,310 | 8   | 56 - 100               | 1,50-6,00      | 500   | 1.000   |
| PS55130 | 5,5 / 6,3 x 130 | 51,631 | 8   | 66 - 115               | 1,50-6,00      | 200   | 400   |
| PS55150 | 5,5 / 6,3 x 150 | 53,294 | 8   | 86 - 135               | 1,50-6,00      | 200   | 400   |
| PS55180 | 5,5 / 6,3 x 180 | 84,069 | 8   | 116 - 165              | 1,50-6,00      | 200   | 400   |

PS 3

Standard drill point #3. Zinc plated



| CODE      | SIZE                | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|-----------|---------------------|--------|---|------------------------|----------------|---|---|
| PS1655060 | 5,5 / 6,3 x 60 P16  | 24,157 | 8   | 31 -45                 | 1,50-6,00      | 500   | 1.000   |
| PS1655082 | 5,5 / 6,3 x 82 P16  | 30,197 | 8   | 43 - 67                | 1,50-6,00      | 500   | 1.000   |
| PS1655098 | 5,5 / 6,3 x 98 P16  | 35,843 | 8   | 54 - 83                | 1,50-6,00      | 500   | 1.000   |
| PS1655115 | 5,5 / 6,3 x 115 P16 | 41,443 | 8   | 56 - 100               | 1,50-6,00      | 500   | -   |

PS 3 + ARVUL

Standard drill point #3 with vulcanized EPDM-steel washer. Zinc-plated



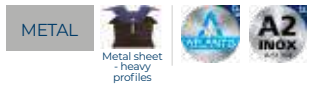





# PS

Self-drilling screw with hexagonal head for sandwich panels

## PS 3 + ARVUL A2

Standard drill point #3 with ATLANTIS C4-M coating and A2 stainless washer






| CODE      | SIZE                | €/100          |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|-----------|---------------------|----------------|---|------------------------|----------------|---|---|
| PS1955195 | 5,5 / 6,3 x 195 P19 | <b>272,777</b> | 8   | 130 - 185              | 1,50-6,00      | 200   | 400   |
| PS1955230 | 5,5 / 6,3 x 230 P19 | <b>382,910</b> | 8   | 166 - 215              | 1,50-6,00      | 200   | -   |

## PS 5

Standard drill point #5. Zinc-plated






| CODE     | SIZE            | €/100          |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|-----------------|----------------|---|------------------------|----------------|---|---|
| PSL55075 | 5,5 / 6,3 x 75  | <b>25,713</b>  | 8   | 33 - 60                | 6,00-12,00     | 500   | 1.500   |
| PSL55085 | 5,5 / 6,3 x 85  | <b>30,080</b>  | 8   | 38 - 70                | 6,00-12,00     | 500   | 1.000   |
| PSL55105 | 5,5 / 6,3 x 105 | <b>37,577</b>  | 8   | 48 - 90                | 6,00-12,00     | 500   | 1.000   |
| PSL55130 | 5,5 / 6,3 x 130 | <b>55,107</b>  | 8   | 63 - 115               | 6,00-12,00     | 250   | 750   |
| PSL55150 | 5,5 / 6,3 x 150 | <b>65,250</b>  | 8   | 83 - 135               | 6,00-12,00     | 250   | 750   |
| PSL55175 | 5,5 / 6,3 x 175 | <b>73,325</b>  | 8   | 108 - 160              | 6,00-12,00     | 200   | 400   |
| PSL55200 | 5,5 / 6,3 x 200 | <b>93,338</b>  | 8   | 133 - 185              | 6,00-12,00     | 200   | 400   |
| PSL55230 | 5,5 / 6,3 x 230 | <b>180,725</b> | 8   | 163 - 215              | 6,00-12,00     | 200   | 400   |

## PS 5 + ARVUL

Standard drill point #5 with vulcanized EPDM-steel washer. Zinc-plated





| CODE       | SIZE                | €/100          |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|------------|---------------------|----------------|--|------------------------|----------------|--|--|
| PSL1655075 | 5,5 / 6,3 x 75 P16  | <b>31,283</b>  | 8  | 33 - 60                | 6,00-12,00     | 500  | 1.000  |
| PSL1655085 | 5,5 / 6,3 x 85 P16  | <b>36,247</b>  | 8  | 38 - 70                | 6,00-12,00     | 500  | 1.000  |
| PSL1655105 | 5,5 / 6,3 x 105 P16 | <b>43,733</b>  | 8  | 48 - 90                | 6,00-12,00     | 500  | -  |
| PSL1655130 | 5,5 / 6,3 x 130 P16 | <b>61,813</b>  | 8  | 63 - 115               | 6,00-12,00     | 250  | 500  |
| PSL1655150 | 5,5 / 6,3 x 150 P16 | <b>71,953</b>  | 8  | 83 - 135               | 6,00-12,00     | 250  | 500  |
| PSL1655175 | 5,5 / 6,3 x 175 P16 | <b>81,472</b>  | 8  | -                      | 6,00-12,00     | 200  | 400  |
| PSL1655200 | 5,5 / 6,3 x 200 P16 | <b>103,708</b> | 8  | -                      | 6,00-12,00     | 200  | 400  |
| PSL1655230 | 5,5 / 6,3 x 230 P16 | <b>200,806</b> | 8  | -                      | 6,00-12,00     | 200  | 400  |

## PS 5 + ARVUL A2

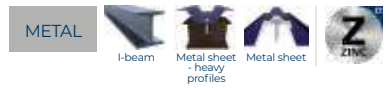
Standard drill point #5 with ATLANTIS C4-M coating and A2 stainless washer





| CODE       | SIZE                | €/100          |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |
|------------|---------------------|----------------|---|------------------------|----------------|---|
| PSL1955255 | 5,5 / 6,3 x 255 P19 | <b>533,260</b> | 8   | 170 - 210              | 6,00-12,00     | 200   |
| PSL1955285 | 5,5 / 6,3 x 285 P19 | <b>937,147</b> | 8   | 200 - 250              | 6,00-12,00     | 200   |

# FIBR

Self-drilling screw for fibre cement, assembled with umbrella washer



| CODE    | SIZE      | €/100          |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |
|---------|-----------|----------------|---|------------------------|----------------|---|
| FI63110 | 6,3 x 110 | <b>96,627</b>  | 8   | 75                     | 6,00-12,00     | 250   |
| FI63115 | 6,3 x 115 | <b>86,170</b>  | 8   | 85                     | 1,00-6,00      | 250   |
| FI63120 | 6,3 x 120 | <b>98,710</b>  | 8   | 85                     | 6,00-12,00     | 250   |
| FI63125 | 6,3 x 125 | <b>91,710</b>  | 8   | 95                     | 1,00-6,00      | 250   |
| FI63130 | 6,3 x 130 | <b>105,080</b> | 8   | 95                     | 6,00-12,00     | 250   |
| FI63150 | 6,3 x 150 | <b>105,067</b> | 8   | 115                    | 6,00-12,00     | 250   |
| FI63160 | 6,3 x 160 | <b>130,200</b> | 8   | 125                    | 6,00-12,00     | 250   |



Vulcanized EPDM-steel washer

ARVUL

METAL



| CODE    | SIZE | €/100 | WASHER INNER Ø |       |        |
|---------|------|-------|----------------|-------|--------|
| ARANE14 | P14  | 4,080 | 2.5            | 1.000 | 12.000 |
| ARANE16 | P16  | 4,563 | 2.7            | 1.000 | 6.000  |
| ARANE18 | P18  | 5,807 | 3.2            | 1.000 | 6.000  |
| ARANE25 | P25  | 9,947 | 3.3            | 500   | 3.000  |

ARVUL

ATLANTIS C2-M coating



Blister

Window box

| CODE      | SIZE | €/BAG | PCS BAG | BAGS |
|-----------|------|-------|---------|------|
| BZARANE14 | P14  | 1,820 | 20      | 10   |
| BZARANE16 | P16  | 1,820 | 20      | 10   |
| BZARANE18 | P18  | 1,820 | 20      | 10   |

| CODE     | SIZE | €/BOX  | PCS | BOXES |
|----------|------|--------|-----|-------|
| VARANE14 | P14  | 4,988  | 100 | 8     |
| VARANE16 | P16  | 5,532  | 100 | 8     |
| VARANE18 | P18  | 7,255  | 100 | 8     |
| VARANE25 | P25  | 12,569 | 100 | 8     |

STAINLESS STEEL



| CODE     | SIZE | €/100  | WASHER INNER Ø |       |        |
|----------|------|--------|----------------|-------|--------|
| ARINO14  | P14  | 11,267 | 2.5            | 1.000 | 12.000 |
| ARINO16  | P16  | 12,737 | 2.7            | 1.000 | 6.000  |
| ARINO18  | P18  | 16,030 | 3.2            | 1.000 | 6.000  |
| ARINO25  | P25  | 29,640 | 3.3            | 500   | 3.000  |
| ARINOM30 | P30  | 42,530 | 6.3            | 500   | 1.500  |

ARVUL A2

A2 Stainless steel



\* ARINOM30: Specially recommended for MTH-A2, 6

Umbrella washer

ARPAR

METAL



| CODE    | SIZE | €/100  |     |       |
|---------|------|--------|-----|-------|
| ARPAR25 | P22  | 34,560 | 250 | 1.500 |

ARPAR **NEW**

Galvanized



METAL



| CODE      | SIZE | €/100  |     |       |
|-----------|------|--------|-----|-------|
| ARPARA225 | P22  | 46,477 | 250 | 1.500 |

ARPAR A2 **NEW**

A2 Stainless steel



# ATAP

Nylon cover cap in colours, for hexagonal-head screws



METAL



| CODE                 | COLOR    | €/100 |    |       |       |
|----------------------|----------|-------|----|-------|-------|
| ATAPO08BAR           | RAL 1001 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08RC            | RAL 3003 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08RT            | RAL 3011 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08VN            | RAL 6028 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08BP            | RAL 9010 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08NE            | RAL 9005 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08BO            | RAL 9002 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO10AR            | RAL 1001 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10RC            | RAL 3003 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10RT            | RAL 3011 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10VN            | RAL 6028 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10BP            | RAL 9010 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10NE            | RAL 9005 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10BO            | RAL 9002 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO08BS <b>NEW</b> | RAL 9003 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08GM <b>NEW</b> | RAL 9006 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08RX <b>NEW</b> | RAL 3009 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO08PC <b>NEW</b> | RAL 8004 | 7,383 | 8  | 1.000 | 2.000 |
| ATAPO10BS <b>NEW</b> | RAL 9003 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10GM <b>NEW</b> | RAL 9006 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10RX <b>NEW</b> | RAL 3009 | 7,383 | 10 | 1.000 | 2.000 |
| ATAPO10PC <b>NEW</b> | RAL 8004 | 7,383 | 10 | 1.000 | 2.000 |

**NEW**

# TDR

Self-tapping repair screw



METAL



| CODE       | SIZE     | €/100  |     |       |
|------------|----------|--------|-----|-------|
| TDR2572032 | 7,2 x 32 | 43,527 | 500 | 1.000 |
| TDR2572025 | 7,2 x 25 | 38,630 | 500 | 1.000 |
| TDR2572038 | 7,2 x 38 | 47,320 | 250 | 750   |



# SELF-DRILLING, SELFTAPPING AND PVC SCREWS



# DIN-7504-N

Panhead self-drilling screw

## DIN-7504-N HP Z

Zinc-plated. PH recess



Available in different coatings. Ask for price and delivery time.

| CODE    | SIZE      | €/100         | PH  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |       |        |
|---------|-----------|---------------|-----|------------------------|----------------|-------|--------|
| ABR3509 | 3,5 x 9,5 | <b>1,653</b>  | PH2 | 2,8                    | 0,70-2,25      | 1.000 | 24.000 |
| ABR3511 | 3,5 x 11  | <b>1,927</b>  | PH2 | 4,2                    | 0,70-2,25      | 1.000 | 24.000 |
| ABR3513 | 3,5 x 13  | <b>2,010</b>  | PH2 | 6,2                    | 0,70-2,25      | 1.000 | 24.000 |
| ABR3516 | 3,5 x 16  | <b>2,143</b>  | PH2 | 9,2                    | 0,70-2,25      | 1.000 | 16.000 |
| ABR3519 | 3,5 x 19  | <b>2,297</b>  | PH2 | 12,1                   | 0,70-2,25      | 1.000 | 12.000 |
| ABR3522 | 3,5 x 22  | <b>2,570</b>  | PH2 | 15,1                   | 0,70-2,25      | 1.000 | 12.000 |
| ABR3525 | 3,5 x 25  | <b>2,830</b>  | PH2 | 18,1                   | 0,70-2,25      | 500   | 12.000 |
| ABR3532 | 3,5 x 32  | <b>3,550</b>  | PH2 | 25,1                   | 0,70-2,25      | 500   | 6.000  |
| ABR3913 | 3,9 x 13  | <b>2,410</b>  | PH2 | 5,8                    | 0,70-2,40      | 1.000 | 16.000 |
| ABR3916 | 3,9 x 16  | <b>2,590</b>  | PH2 | 8,8                    | 0,70-2,40      | 1.000 | 12.000 |
| ABR3919 | 3,9 x 19  | <b>2,880</b>  | PH2 | 11,7                   | 0,70-2,40      | 1.000 | 12.000 |
| ABR3925 | 3,9 x 25  | <b>3,480</b>  | PH2 | 17,7                   | 0,70-2,40      | 500   | 8.000  |
| ABR3932 | 3,9 x 32  | <b>4,187</b>  | PH2 | 24,5                   | 0,70-2,40      | 500   | 6.000  |
| ABR4213 | 4,2 x 13  | <b>2,560</b>  | PH2 | 4,3                    | 1,75-3,00      | 1.000 | 12.000 |
| ABR4216 | 4,2 x 16  | <b>2,803</b>  | PH2 | 7,3                    | 1,75-3,00      | 1.000 | 12.000 |
| ABR4219 | 4,2 x 19  | <b>3,170</b>  | PH2 | 10,3                   | 1,75-3,00      | 1.000 | 12.000 |
| ABR4222 | 4,2 x 22  | <b>3,610</b>  | PH2 | 13,3                   | 1,75-3,00      | 500   | 8.000  |
| ABR4225 | 4,2 x 25  | <b>3,743</b>  | PH2 | 17,7                   | 1,75-3,00      | 500   | 6.000  |
| ABR4232 | 4,2 x 32  | <b>4,393</b>  | PH2 | 24,5                   | 1,75-3,00      | 500   | 6.000  |
| ABR4238 | 4,2 x 38  | <b>5,160</b>  | PH2 | 30,5                   | 1,75-3,00      | 500   | 6.000  |
| ABR4250 | 4,2 x 50  | <b>6,467</b>  | PH2 | 41                     | 1,75-3,00      | 500   | 3.000  |
| ABR4811 | 4,8 x 110 | <b>28,577</b> | PH2 | -                      | 1,75-4,40      | 100   | 1.200  |
| ABR4812 | 4,8 x 120 | <b>29,433</b> | PH2 | -                      | 1,75-4,40      | 100   | 1.200  |

| CODE    | SIZE      | €/100         | PH  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |       |       |
|---------|-----------|---------------|-----|------------------------|----------------|-------|-------|
| ABR4813 | 4,8 x 13  | <b>3,627</b>  | PH2 | 3,7                    | 1,75-4,40      | 1.000 | 8.000 |
| ABR4816 | 4,8 x 16  | <b>3,950</b>  | PH2 | 5,5                    | 1,75-4,40      | 1.000 | 8.000 |
| ABR4819 | 4,8 x 19  | <b>4,363</b>  | PH2 | 10,3                   | 1,75-4,40      | 1.000 | 8.000 |
| ABR4822 | 4,8 x 22  | <b>5,060</b>  | PH2 | 11,7                   | 1,75-4,40      | 500   | 6.000 |
| ABR4825 | 4,8 x 25  | <b>5,160</b>  | PH2 | 14,7                   | 1,75-4,40      | 500   | 6.000 |
| ABR4832 | 4,8 x 32  | <b>5,900</b>  | PH2 | 21,5                   | 1,75-4,40      | 500   | 6.000 |
| ABR4838 | 4,8 x 38  | <b>6,813</b>  | PH2 | 27,5                   | 1,75-4,40      | 500   | 3.000 |
| ABR4845 | 4,8 x 45  | <b>7,923</b>  | PH2 | 34,5                   | 1,75-4,40      | 500   | 3.000 |
| ABR4850 | 4,8 x 50  | <b>8,910</b>  | PH2 | 39,5                   | 1,75-4,40      | 500   | 3.000 |
| ABR4860 | 4,8 x 60  | <b>11,900</b> | PH2 | 49,5                   | 1,75-4,40      | 500   | 2.000 |
| ABR4875 | 4,8 x 75  | <b>14,358</b> | -   | 64,5                   | 1,75-4,40      | 250   | 1.500 |
| ABR4880 | 4,8 x 80  | <b>15,543</b> | PH2 | 69,5                   | 1,75-4,40      | 250   | 1.500 |
| ABR4890 | 4,8 x 90  | <b>24,483</b> | PH2 | 79,5                   | 1,75-4,40      | 100   | 1.200 |
| ABR4810 | 4,8 x 100 | <b>27,627</b> | PH2 | 89,5                   | 1,75-4,40      | 100   | 1.200 |
| ABR5519 | 5,5 x 19  | <b>6,017</b>  | PH3 | 8,7                    | 1,75-5,25      | 500   | 6.000 |
| ABR5522 | 5,5 x 22  | <b>6,483</b>  | PH3 | 11,7                   | 1,75-5,25      | 500   | 6.000 |
| ABR5525 | 5,5 x 25  | <b>6,743</b>  | PH3 | 14,7                   | 1,75-5,25      | 500   | 4.000 |
| ABR5532 | 5,5 x 32  | <b>8,027</b>  | PH3 | 21,5                   | 1,75-5,25      | 500   | 3.000 |
| ABR5538 | 5,5 x 38  | <b>9,030</b>  | PH3 | 27,5                   | 1,75-5,25      | 500   | 3.000 |
| ABR5545 | 5,5 x 45  | <b>10,133</b> | PH3 | 34,5                   | 1,75-5,25      | 500   | 3.000 |
| ABR5560 | 5,5 x 60  | <b>14,163</b> | PH3 | 49,5                   | 1,75-5,25      | 250   | 1.500 |
| ABR5573 | 5,5 x 73  | <b>17,083</b> | PH3 | 62,5                   | 1,75-5,25      | 250   | 1.500 |

### Blister

| CODE      | SIZE      | €/BAG        | PCS BAG | BAGS |
|-----------|-----------|--------------|---------|------|
| BZABR3509 | 3,5 x 9,5 | <b>2,302</b> | 40      | 15   |
| BZABR3513 | 3,5 x 13  | <b>2,302</b> | 40      | 15   |
| BZABR3516 | 3,5 x 16  | <b>2,302</b> | 40      | 15   |
| BZABR4213 | 4,2 x 13  | <b>2,302</b> | 40      | 15   |
| BZABR4216 | 4,2 x 16  | <b>2,302</b> | 40      | 15   |
| BZABR4219 | 4,2 x 19  | <b>2,302</b> | 40      | 15   |
| BZABR4225 | 4,2 x 25  | <b>2,302</b> | 20      | 15   |
| BZABR4232 | 4,2 x 32  | <b>2,302</b> | 20      | 15   |
| BZABR4816 | 4,8 x 16  | <b>2,302</b> | 35      | 15   |
| BZABR4819 | 4,8 x 19  | <b>2,302</b> | 35      | 15   |
| BZABR4825 | 4,8 x 25  | <b>2,302</b> | 20      | 15   |
| BZABR4832 | 4,8 x 32  | <b>2,302</b> | 20      | 15   |
| BZABR4838 | 4,8 x 38  | <b>2,302</b> | 20      | 15   |
| BZABR4845 | 4,8 x 45  | <b>2,302</b> | 20      | 15   |
| BZABR4850 | 4,8 x 50  | <b>2,302</b> | 20      | 15   |
| BZABR4860 | 4,8 x 60  | <b>2,302</b> | 20      | 15   |

### Window box

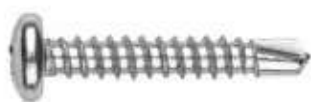
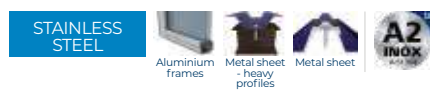
| CODE     | SIZE      | €/BOX         | PCS BOX | BOXES |
|----------|-----------|---------------|---------|-------|
| VABR3509 | 3,5 x 9,5 | <b>5,833</b>  | 275     | 8     |
| VABR3511 | 3,5 x 11  | <b>5,944</b>  | 250     | 8     |
| VABR3513 | 3,5 x 13  | <b>6,263</b>  | 250     | 8     |
| VABR3516 | 3,5 x 16  | <b>6,087</b>  | 225     | 8     |
| VABR3519 | 3,5 x 19  | <b>6,441</b>  | 225     | 8     |
| VABR3525 | 3,5 x 25  | <b>6,410</b>  | 180     | 8     |
| VABR3913 | 3,9 x 13  | <b>7,436</b>  | 250     | 8     |
| VABR3916 | 3,9 x 16  | <b>6,562</b>  | 200     | 8     |
| VABR3919 | 3,9 x 19  | <b>7,033</b>  | 200     | 8     |
| VABR3925 | 3,9 x 25  | <b>6,555</b>  | 150     | 8     |
| VABR3932 | 3,9 x 32  | <b>10,526</b> | 200     | 8     |
| VABR4213 | 4,2 x 13  | <b>6,577</b>  | 200     | 8     |
| VABR4216 | 4,2 x 16  | <b>6,992</b>  | 200     | 8     |
| VABR4219 | 4,2 x 19  | <b>6,938</b>  | 175     | 8     |
| VABR4222 | 4,2 x 22  | <b>7,692</b>  | 175     | 8     |
| VABR4225 | 4,2 x 25  | <b>5,845</b>  | 125     | 8     |

### Window box

| CODE     | SIZE     | €/BOX        | PCS BOX | BOXES |
|----------|----------|--------------|---------|-------|
| VABR4232 | 4,2 x 32 | <b>5,114</b> | 90      | 8     |
| VABR4238 | 4,2 x 38 | <b>5,000</b> | 75      | 8     |
| VABR4250 | 4,2 x 50 | <b>4,601</b> | 50      | 8     |
| VABR4813 | 4,8 x 13 | <b>6,026</b> | 125     | 8     |
| VABR4816 | 4,8 x 16 | <b>6,109</b> | 125     | 8     |
| VABR4819 | 4,8 x 19 | <b>5,900</b> | 110     | 8     |
| VABR4822 | 4,8 x 22 | <b>5,681</b> | 90      | 8     |
| VABR4825 | 4,8 x 25 | <b>5,792</b> | 90      | 8     |
| VABR4832 | 4,8 x 32 | <b>5,624</b> | 75      | 8     |
| VABR4838 | 4,8 x 38 | <b>4,893</b> | 55      | 8     |
| VABR4845 | 4,8 x 45 | <b>5,076</b> | 50      | 8     |
| VABR4850 | 4,8 x 50 | <b>4,655</b> | 40      | 8     |
| VABR4860 | 4,8 x 60 | <b>6,045</b> | 40      | 8     |
| VABR4880 | 4,8 x 80 | <b>5,273</b> | 25      | 8     |
| VABR5532 | 5,5 x 32 | <b>5,099</b> | 50      | 8     |

## DIN-7504-N HP A2

A2 Stainless steel. PH recess



| CODE      | SIZE      | €/100         | PH  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |       |        |
|-----------|-----------|---------------|-----|------------------------|----------------|-------|--------|
| ABRA23509 | 3,5 x 9,5 | <b>12,170</b> | PH2 | 2,85                   | 0,70-2,25      | 1.000 | 24.000 |
| ABRA23513 | 3,5 x 13  | <b>14,683</b> | PH2 | 6,2                    | 0,70-2,25      | 500   | 12.000 |
| ABRA23519 | 3,5 x 19  | <b>17,990</b> | PH2 | 12,1                   | 0,70-2,25      | 500   | 12.000 |
| ABRA24213 | 4,2 x 13  | <b>17,197</b> | PH2 | 4,3                    | 1,75-3,00      | 500   | 12.000 |
| ABRA24216 | 4,2 x 16  | <b>19,263</b> | PH2 | 7,3                    | 1,75-3,00      | 500   | 12.000 |
| ABRA24219 | 4,2 x 19  | <b>20,500</b> | PH2 | 10,3                   | 1,75-3,00      | 500   | 12.000 |
| ABRA24225 | 4,2 x 25  | <b>21,533</b> | PH2 | 16,3                   | 1,75-3,00      | 250   | 6.000  |
| ABRA24816 | 4,8 x 16  | <b>26,977</b> | PH2 | 5,5                    | 1,75-4,40      | 250   | 6.000  |
| ABRA24819 | 4,8 x 19  | <b>26,427</b> | PH2 | 8,7                    | 1,75-4,40      | 250   | 6.000  |
| ABRA24825 | 4,8 x 25  | <b>29,360</b> | PH2 | 14,7                   | 1,75-4,40      | 250   | 6.000  |
| ABRA24832 | 4,8 x 32  | <b>34,367</b> | PH2 | 21,5                   | 1,75-4,40      | 250   | 4.000  |
| ABRA24838 | 4,8 x 38  | <b>37,623</b> | PH2 | 27,5                   | 1,75-4,40      | 250   | 3.000  |
| ABRA24850 | 4,8 x 50  | <b>44,363</b> | PH2 | 39,5                   | 1,75-4,40      | 250   | 3.000  |






Panhead self-drilling screw

# DIN-7504-N

METAL



| CODE    | SIZE      | €/100         |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|-----------|---------------|---|------------------------|----------------|---|---|
| NBR3509 | 3,5 x 9,5 | <b>2,633</b>  | PH2   | 2,85                   | 0,70-2,25      | 1.000   | 24.000  |
| NBR3513 | 3,5 x 13  | <b>3,280</b>  | PH2   | 6,2                    | 0,70-2,25      | 1.000   | 24.000  |
| NBR3516 | 3,5 x 16  | <b>3,360</b>  | PH2   | 9,2                    | 0,70-2,25      | 1.000   | 16.000  |
| NBR3519 | 3,5 x 19  | <b>3,710</b>  | PH2   | 12,1                   | 0,70-2,25      | 1.000   | 12.000  |
| NBR4213 | 4,2 x 13  | <b>3,877</b>  | PH2   | 4,3                    | 1,75-3,00      | 1.000   | 12.000  |
| NBR4216 | 4,2 x 16  | <b>4,293</b>  | PH2   | 7,3                    | 1,75-3,00      | 1.000   | 12.000  |
| NBR4219 | 4,2 x 19  | <b>4,817</b>  | PH2   | 10,3                   | 1,75-3,00      | 1.000   | 12.000  |
| NBR4225 | 4,2 x 25  | <b>5,950</b>  | PH2   | 16,3                   | 1,75-3,00      | 500   | 6.000   |
| NBR4232 | 4,2 x 32  | <b>7,067</b>  | PH2   | 23                     | 1,75-3,00      | 500   | 6.000   |
| NBR4238 | 4,2 x 38  | <b>8,293</b>  | PH2   | 29                     | 1,75-3,00      | 500   | 6.000   |
| NBR4816 | 4,8 x 16  | <b>5,920</b>  | PH2   | 5,5                    | 1,75-4,40      | 1.000   | 8.000   |
| NBR4819 | 4,8 x 19  | <b>6,887</b>  | PH2   | 8,7                    | 1,75-4,40      | 1.000   | 8.000   |
| NBR4825 | 4,8 x 25  | <b>8,103</b>  | PH2   | 14,7                   | 1,75-4,40      | 500   | 6.000   |
| NBR4832 | 4,8 x 32  | <b>9,837</b>  | PH2   | 21,5                   | 1,75-4,40      | 500   | 6.000   |
| NBR4838 | 4,8 x 38  | <b>10,487</b> | PH2   | 27,5                   | 1,75-4,40      | 500   | 3.000   |
| NBR4845 | 4,8 x 45  | <b>12,160</b> | PH2   | 34,5                   | 1,75-4,40      | 500   | 3.000   |
| NBR4850 | 4,8 x 50  | <b>13,187</b> | PH2   | 39,5                   | 1,75-4,40      | 500   | 3.000   |

## DIN-7504-N HP N




Black. PH recess



For other sizes, contact your sales person for term and price

METAL



| CODE       | SIZE      | €/100         |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|------------|-----------|---------------|---|------------------------|----------------|---|---|
| ABR3509BLE | 3,5 x 9,5 | <b>1,920</b>  | PH2   | 2,85                   | 0,70-2,25      | 1.000   | 24.000  |
| ABR3513BLE | 3,5 x 13  | <b>5,143</b>  | PH2   | 6,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABR3516BLE | 3,5 x 16  | <b>5,787</b>  | PH2   | 9,2                    | 0,70-2,25      | 1.000   | 16.000  |
| ABR4213BLE | 4,2 x 13  | <b>6,727</b>  | PH2   | 4,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABR4216BLE | 4,2 x 16  | <b>7,470</b>  | PH2   | 7,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABR4219BLE | 4,2 x 19  | <b>7,500</b>  | PH2   | 10,3                   | 1,75-3,00      | 1.000   | 12.000  |
| ABR4825BLE | 4,8 x 25  | <b>10,757</b> | PH2   | 14,7                   | 1,75-4,40      | 500   | 6.000   |

## DIN-7504-N HP B

White. PH recess



For other sizes, contact your sales person for term and price

# DIN-7504-N Panhead self-drilling screw




## DIN-7504-N HT

Zinc-plated. TX/OXBIT recess



FREE - 1 bit inside each box



| CODE     | SIZE      | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|-----------|--------|---|------------------------|----------------|---|---|
| ABRT3509 | 3,5 x 9,5 | 1,967  | Tx20/OXBIT20  | 2,8                    | 0,70-2,25      | 1.000   | 24.000  |
| ABRT3513 | 3,5 x 13  | 2,297  | Tx20/OXBIT20  | 6,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABRT3516 | 3,5 x 16  | 2,453  | Tx20/OXBIT20  | 9,2                    | 0,70-2,25      | 1.000   | 16.000  |
| ABRT3519 | 3,5 x 19  | 2,617  | Tx20/OXBIT20  | 12,1                   | 0,70-2,25      | 1.000   | 12.000  |
| ABRT3913 | 3,9 x 13  | 2,747  | Tx20/OXBIT20  | 5,8                    | 0,70-2,40      | 1.000   | 16.000  |
| ABRT3916 | 3,9 x 16  | 2,953  | Tx20/OXBIT20  | 8,8                    | 0,70-2,40      | 1.000   | 12.000  |
| ABRT3919 | 3,9 x 19  | 3,283  | Tx20/OXBIT20  | 11,7                   | 0,70-2,40      | 1.000   | 12.000  |
| ABRT3925 | 3,9 x 25  | 4,037  | Tx20/OXBIT20  | 17,7                   | 0,70-2,40      | 500   | 8.000   |
| ABRT4213 | 4,2 x 13  | 2,923  | Tx20/OXBIT20  | 4,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABRT4216 | 4,2 x 16  | 3,197  | Tx20/OXBIT20  | 7,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABRT4219 | 4,2 x 19  | 3,623  | Tx20/OXBIT20  | 10,3                   | 1,75-3,00      | 1.000   | 12.000  |
| ABRT4225 | 4,2 x 25  | 4,280  | Tx20/OXBIT20  | 17,7                   | 1,75-3,00      | 500   | 6.000   |
| ABRT4232 | 4,2 x 32  | 5,013  | Tx20/OXBIT20  | 24,5                   | 1,75-3,00      | 500   | 6.000   |
| ABRT4238 | 4,2 x 38  | 5,893  | Tx20/OXBIT20  | 30,5                   | 1,75-3,00      | 500   | 6.000   |
| ABRT4250 | 4,2 x 50  | 7,217  | Tx20/OXBIT20  | 41                     | 1,75-3,00      | 500   | 3.000   |
| ABRT4813 | 4,8 x 13  | 4,050  | Tx25/OXBIT25  | 3,7                    | 1,75-4,40      | 1.000   | 8.000   |
| ABRT4816 | 4,8 x 16  | 4,337  | Tx25/OXBIT25  | 5,5                    | 1,75-4,40      | 1.000   | 8.000   |
| ABRT4819 | 4,8 x 19  | 4,783  | Tx25/OXBIT25  | 10,3                   | 1,75-4,40      | 1.000   | 8.000   |
| ABRT4825 | 4,8 x 25  | 5,657  | Tx25/OXBIT25  | 14,7                   | 1,75-4,40      | 500   | 6.000   |
| ABRT4832 | 4,8 x 32  | 6,587  | Tx25/OXBIT25  | 21,5                   | 1,75-4,40      | 500   | 6.000   |
| ABRT4838 | 4,8 x 38  | 7,470  | Tx25/OXBIT25  | 27,5                   | 1,75-4,40      | 500   | 3.000   |
| ABRT4845 | 4,8 x 45  | 8,597  | Tx25/OXBIT25  | 34,5                   | 1,75-4,40      | 500   | 3.000   |
| ABRT4850 | 4,8 x 50  | 9,943  | Tx25/OXBIT25  | 39,5                   | 1,75-4,40      | 500   | 3.000   |
| ABRT4860 | 4,8 x 60  | 13,283 | Tx25/OXBIT25  | 49,5                   | 1,75-4,40      | 500   | 2.000   |
| ABRT4875 | 4,8 x 75  | 16,269 | -   | 64,5                   | 1,75-4,40      | 250   | 1.500   |
| ABRT4880 | 4,8 x 80  | 17,353 | Tx25/OXBIT25  | 69,5                   | 1,75-4,40      | 250   | 1.500   |
| ABRT4890 | 4,8 x 90  | 27,330 | Tx25/OXBIT25  | 79,5                   | 1,75-4,40      | 100   | 1.200   |
| ABRT4810 | 4,8 x 100 | 30,830 | Tx25/OXBIT25  | 89,5                   | 1,75-4,40      | 100   | 1.200   |
| ABRT4811 | 4,8 x 110 | 31,890 | Tx25/OXBIT25  | -                      | 1,75-4,40      | 100   | 1.200   |
| ABRT4812 | 4,8 x 120 | 32,853 | Tx25/OXBIT25  | -                      | 1,75-4,40      | 100   | 1.200   |
| ABRT5519 | 5,5 x 19  | 6,710  | Tx25/OXBIT25  | 8,7                    | 1,75-5,25      | 500   | 6.000   |
| ABRT5525 | 5,5 x 25  | 7,393  | Tx25/OXBIT25  | 14,7                   | 1,75-5,25      | 500   | 4.000   |
| ABRT5532 | 5,5 x 32  | 8,967  | Tx25/OXBIT25  | 21,5                   | 1,75-5,25      | 500   | 3.000   |
| ABRT5538 | 5,5 x 38  | 10,073 | Tx25/OXBIT25  | 27,5                   | 1,75-5,25      | 500   | 3.000   |
| ABRT5560 | 5,5 x 60  | 15,813 | Tx25/OXBIT25  | 49,5                   | 1,75-5,25      | 250   | 1.500   |
| ABRT5573 | 5,5 x 73  | 19,067 | Tx25/OXBIT25  | 62,5                   | 1,75-5,25      | 250   | 1.500   |




## DIN-7504-N HC

Zinc-plated. Square recess



FREE - 1 bit inside each box



| CODE     | SIZE      | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|-----------|--------|---|------------------------|----------------|---|---|
| ABRC3509 | 3,5 x 9,5 | 1,707  | PC1   | 2,85                   | 0,70-2,25      | 1.000   | 24.000  |
| ABRC3513 | 3,5 x 13  | 2,080  | PC1   | 6,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABRC3516 | 3,5 x 16  | 2,210  | PC1   | 9,2                    | 0,70-2,25      | 1.000   | 16.000  |
| ABRC3519 | 3,5 x 19  | 2,367  | PC1   | 12,1                   | 0,70-2,25      | 1.000   | 12.000  |
| ABRC3913 | 3,9 x 13  | 2,483  | PC1   | 5,8                    | 0,70-2,40      | 1.000   | 16.000  |
| ABRC3916 | 3,9 x 16  | 2,670  | PC1   | 8,8                    | 0,70-2,40      | 1.000   | 12.000  |
| ABRC3919 | 3,9 x 19  | 2,967  | PC1   | 11,7                   | 0,70-2,40      | 1.000   | 12.000  |
| ABRC3925 | 3,9 x 25  | 3,657  | PC1   | 17,7                   | 0,70-2,40      | 500   | 8.000   |
| ABRC3938 | 3,9 x 38  | 4,040  | PC1   | 30,5                   | 0,70-2,40      | 500   | 6.000   |
| ABRC4213 | 4,2 x 13  | 2,633  | PC2   | 4,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABRC4216 | 4,2 x 16  | 2,890  | PC2   | 7,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABRC4219 | 4,2 x 19  | 3,280  | PC2   | 10,3                   | 1,75-3,00      | 1.000   | 12.000  |
| ABRC4225 | 4,2 x 25  | 3,863  | PC2   | 16,3                   | 1,75-3,00      | 500   | 6.000   |
| ABRC4232 | 4,2 x 32  | 4,527  | PC2   | 23                     | 1,75-3,00      | 500   | 6.000   |
| ABRC4238 | 4,2 x 38  | 5,320  | PC2   | 29                     | 1,75-3,00      | 500   | 6.000   |
| ABRC4816 | 4,8 x 16  | 4,077  | PC2   | 5,5                    | 1,75-4,40      | 1.000   | 8.000   |
| ABRC4819 | 4,8 x 19  | 4,490  | PC2   | 8,7                    | 1,75-4,40      | 1.000   | 8.000   |
| ABRC4825 | 4,8 x 25  | 5,320  | PC2   | 14,7                   | 1,75-4,40      | 500   | 6.000   |
| ABRC4832 | 4,8 x 32  | 6,197  | PC2   | 21,5                   | 1,75-4,40      | 500   | 6.000   |
| ABRC4838 | 4,8 x 38  | 7,030  | PC2   | 27,5                   | 1,75-4,40      | 500   | 3.000   |
| ABRC4845 | 4,8 x 45  | 8,177  | PC2   | 34,5                   | 1,75-4,40      | 500   | 3.000   |
| ABRC4850 | 4,8 x 50  | 9,353  | PC2   | 39,5                   | 1,75-4,40      | 500   | 3.000   |
| ABRC4860 | 4,8 x 60  | 12,497 | PC2   | 49,5                   | 1,75-4,40      | 500   | 2.000   |
| ABRC4880 | 4,8 x 80  | 16,323 | PC2   | 69,5                   | 1,75-4,40      | 250   | 1.500   |
| ABRC4890 | 4,8 x 90  | 25,703 | PC2   | 79,5                   | 1,75-4,40      | 100   | 1.200   |
| ABRC4810 | 4,8 x 100 | 29,003 | PC2   | 89,5                   | 1,75-4,40      | 100   | 1.200   |
| ABRC5525 | 5,5 x 25  | 6,323  | PC3   | 13                     | 1,75-5,25      | 500   | 4.000   |
| ABRC5573 | 5,5 x 73  | 16,303 | PC3   | 61                     | 1,75-5,25      | 250   | 1.500   |

Countersunk head self-drilling screw

# DIN-7504-P

METAL






Metal sheet heavy profiles Metal sheet

## DIN-7504-P HP Z

Zinc-plated. PH recess



| CODE    | SIZE      | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|-----------|--------|---|------------------------|----------------|---|---|
| ABP3509 | 3,5 x 9,5 | 2,277  | PH2   | 2,85                   | 0,70-2,25      | 1.000   | 24.000  |
| ABP3511 | 3,5 x 11  | 1,810  | PH2   | 4,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABP3513 | 3,5 x 13  | 1,837  | PH2   | 6,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABP3516 | 3,5 x 16  | 2,020  | PH2   | 9,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABP3519 | 3,5 x 19  | 2,407  | PH2   | 12,1                   | 0,70-2,25      | 1.000   | 12.000  |
| ABP3522 | 3,5 x 22  | 2,737  | PH2   | 15,1                   | 0,70-2,25      | 1.000   | 12.000  |
| ABP3525 | 3,5 x 25  | 2,730  | PH2   | 18,1                   | 0,70-2,25      | 500   | 12.000  |
| ABP3913 | 3,9 x 13  | 2,103  | PH2   | 5,8                    | 0,70-2,40      | 1.000   | 24.000  |
| ABP3916 | 3,9 x 16  | 2,343  | PH2   | 8,8                    | 0,70-2,40      | 1.000   | 12.000  |
| ABP3919 | 3,9 x 19  | 2,653  | PH2   | 11,7                   | 0,70-2,40      | 1.000   | 12.000  |
| ABP3922 | 3,9 x 22  | 2,977  | PH2   | 14,7                   | 0,70-2,40      | 500   | 12.000  |
| ABP3925 | 3,9 x 25  | 2,993  | PH2   | 17,7                   | 0,70-2,40      | 500   | 12.000  |
| ABP3932 | 3,9 x 32  | 3,597  | PH2   | 24,5                   | 0,70-2,40      | 500   | 6.000   |
| ABP3938 | 3,9 x 38  | 4,287  | PH2   | 30,5                   | 0,70-2,40      | 500   | 6.000   |
| ABP4213 | 4,2 x 13  | 2,410  | PH2   | 4,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABP4216 | 4,2 x 16  | 2,653  | PH2   | 7,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABP4219 | 4,2 x 19  | 2,930  | PH2   | 10,3                   | 1,75-3,00      | 1.000   | 12.000  |
| ABP4222 | 4,2 x 22  | 3,237  | PH2   | 13,3                   | 1,75-3,00      | 500   | 12.000  |
| ABP4225 | 4,2 x 25  | 3,597  | PH2   | 16,3                   | 1,75-3,00      | 500   | 6.000   |
| ABP4232 | 4,2 x 32  | 4,227  | PH2   | 23                     | 1,75-3,00      | 500   | 6.000   |
| ABP4238 | 4,2 x 38  | 4,937  | PH2   | 29                     | 1,75-3,00      | 500   | 6.000   |
| ABP4813 | 4,8 x 13  | 3,313  | PH2   | 3,7                    | 1,75-4,40      | 1.000   | 12.000  |
| ABP4816 | 4,8 x 16  | 3,523  | PH2   | 5,5                    | 1,75-4,40      | 1.000   | 12.000  |
| ABP4819 | 4,8 x 19  | 3,793  | PH2   | 8,7                    | 1,75-4,40      | 1.000   | 8.000   |
| ABP4825 | 4,8 x 25  | 4,313  | PH2   | 14,7                   | 1,75-4,40      | 500   | 6.000   |
| ABP4832 | 4,8 x 32  | 5,590  | PH2   | 21,5                   | 1,75-4,40      | 500   | 6.000   |
| ABP4838 | 4,8 x 38  | 6,457  | PH2   | 27,5                   | 1,75-4,40      | 500   | 3.000   |
| ABP4850 | 4,8 x 50  | 8,107  | PH2   | 39,5                   | 1,75-4,40      | 500   | 3.000   |
| ABP5519 | 5,5 x 19  | 5,390  | PH3   | 8,7                    | 1,75-5,25      | 500   | 6.000   |
| ABP5525 | 5,5 x 25  | 6,153  | PH3   | 14,7                   | 1,75-5,25      | 500   | 6.000   |
| ABP5532 | 5,5 x 32  | 7,763  | PH3   | 21,5                   | 1,75-5,25      | 500   | 3.000   |
| ABP5538 | 5,5 x 38  | 8,607  | PH3   | 27,5                   | 1,75-5,25      | 500   | 3.000   |
| ABP5550 | 5,5 x 50  | 11,063 | PH3   | 39,5                   | 1,75-5,25      | 500   | 3.000   |



Blister

| CODE      | SIZE     | €/BAG | PCS BAG | BAGS |
|-----------|----------|-------|---------|------|
| BZABP3513 | 3,5 x 13 | 2,302 | 40      | 20   |
| BZABP3516 | 3,5 x 16 | 2,302 | 40      | 20   |
| BZABP4219 | 4,2 x 19 | 2,302 | 40      | 20   |
| BZABP4225 | 4,2 x 25 | 2,302 | 20      | 20   |
| BZABP4232 | 4,2 x 32 | 2,302 | 20      | 20   |



Window box




| CODE     | SIZE     | €/BOX | PCS BOX | BOXES |
|----------|----------|-------|---------|-------|
| VABP3513 | 3,5 x 13 | 5,836 | 250     | 8     |
| VABP3516 | 3,5 x 16 | 5,805 | 225     | 8     |
| VABP3519 | 3,5 x 19 | 6,064 | 200     | 8     |
| VABP3525 | 3,5 x 25 | 6,263 | 180     | 8     |
| VABP3913 | 3,9 x 13 | 5,384 | 200     | 8     |
| VABP3916 | 3,9 x 16 | 6,054 | 200     | 8     |
| VABP3919 | 3,9 x 19 | 5,871 | 175     | 8     |
| VABP3925 | 3,9 x 25 | 5,868 | 150     | 8     |
| VABP3938 | 3,9 x 38 | 5,517 | 100     | 8     |
| VABP4213 | 4,2 x 13 | 5,507 | 175     | 8     |
| VABP4216 | 4,2 x 16 | 5,871 | 175     | 8     |
| VABP4219 | 4,2 x 19 | 6,356 | 175     | 8     |
| VABP4225 | 4,2 x 25 | 5,726 | 125     | 8     |
| VABP4232 | 4,2 x 32 | 4,829 | 90      | 8     |
| VABP4238 | 4,2 x 38 | 4,705 | 75      | 8     |
| VABP4816 | 4,8 x 16 | 5,769 | 125     | 8     |
| VABP4819 | 4,8 x 19 | 5,073 | 100     | 8     |
| VABP4825 | 4,8 x 25 | 4,867 | 90      | 8     |
| VABP4832 | 4,8 x 32 | 5,406 | 75      | 8     |
| VABP4838 | 4,8 x 38 | 6,299 | 75      | 8     |
| VABP5532 | 5,5 x 32 | 4,857 | 50      | 8     |

# DIN-7504-P Countersunk head self-drilling screw

## DIN-7504-P HP N

Black. PH recess






| CODE    | SIZE     | €/100         |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|----------|---------------|---|------------------------|----------------|---|---|
| NBP3513 | 3,5 x 13 | <b>2,887</b>  | PH2   | 6,2                    | 0,70-2,25      | 1.000   | 24.000  |
| NBP3516 | 3,5 x 16 | <b>3,147</b>  | PH2   | 9,2                    | 0,70-2,25      | 1.000   | 24.000  |
| NBP3519 | 3,5 x 19 | <b>3,557</b>  | PH2   | 12,1                   | 0,70-2,25      | 1.000   | 12.000  |
| NBP3525 | 3,5 x 25 | <b>4,503</b>  | PH2   | 18,1                   | 0,70-2,25      | 500   | 12.000  |
| NBP4216 | 4,2 x 16 | <b>3,920</b>  | PH2   | 7,3                    | 1,75-3,00      | 1.000   | 12.000  |
| NBP4219 | 4,2 x 19 | <b>4,780</b>  | PH2   | 10,3                   | 1,75-3,00      | 1.000   | 12.000  |
| NBP4225 | 4,2 x 25 | <b>5,427</b>  | PH2   | 16,3                   | 1,75-3,00      | 500   | 6.000   |
| NBP4232 | 4,2 x 32 | <b>6,340</b>  | PH2   | 23                     | 1,75-3,00      | 500   | 6.000   |
| NBP4238 | 4,2 x 38 | <b>8,480</b>  | PH2   | 29                     | 1,75-3,00      | 500   | 6.000   |
| NBP4825 | 4,8 x 25 | <b>7,890</b>  | PH2   | 14,7                   | 1,75-4,40      | 500   | 6.000   |
| NBP4832 | 4,8 x 32 | <b>9,517</b>  | PH2   | 21,5                   | 1,75-4,40      | 500   | 6.000   |
| NBP4838 | 4,8 x 38 | <b>10,957</b> | PH2   | 27,5                   | 1,75-4,40      | 500   | 3.000   |
| NBP4850 | 4,8 x 50 | <b>12,910</b> | PH2   | 39,5                   | 1,75-4,40      | 500   | 3.000   |

## DIN-7504-P HT Z

Zinc-plated. TX/OXBIT recess



| CODE     | SIZE     | €/100        |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|----------|--------------|---|------------------------|----------------|---|---|
| ABPT3513 | 3,5 x 13 | <b>2,117</b> | Tx15/OXBIT15  | 6,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABPT3516 | 3,5 x 16 | <b>2,337</b> | Tx15/OXBIT15  | 9,2                    | 0,70-2,25      | 1.000   | 24.000  |
| ABPT3519 | 3,5 x 19 | <b>2,773</b> | Tx15/OXBIT15  | 12,1                   | 0,70-2,25      | 1.000   | 12.000  |
| ABPT3913 | 3,9 x 13 | <b>2,437</b> | Tx15/OXBIT15  | 5,8                    | 0,70-2,40      | 1.000   | 24.000  |
| ABPT3916 | 3,9 x 16 | <b>2,703</b> | Tx15/OXBIT15  | 8,8                    | 0,70-2,40      | 1.000   | 12.000  |
| ABPT4213 | 4,2 x 13 | <b>2,737</b> | Tx20/OXBIT20  | 4,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABPT4216 | 4,2 x 16 | <b>3,067</b> | Tx20/OXBIT20  | 7,3                    | 1,75-3,00      | 1.000   | 12.000  |
| ABPT4219 | 4,2 x 19 | <b>3,327</b> | Tx20/OXBIT20  | 10,3                   | 1,75-3,00      | 1.000   | 12.000  |
| ABPT4225 | 4,2 x 25 | <b>4,157</b> | Tx20/OXBIT20  | 16,3                   | 1,75-3,00      | 500   | 6.000   |
| ABPT4232 | 4,2 x 32 | <b>4,807</b> | Tx20/OXBIT20  | 23                     | 1,75-3,00      | 500   | 6.000   |
| ABPT4819 | 4,8 x 19 | <b>4,307</b> | Tx25/OXBIT25  | 8,7                    | 1,75-4,40      | 1.000   | 8.000   |
| ABPT4825 | 4,8 x 25 | <b>4,893</b> | Tx25/OXBIT25  | 14,7                   | 1,75-4,40      | 500   | 6.000   |
| ABPT4832 | 4,8 x 32 | <b>6,460</b> | Tx25/OXBIT25  | 21,5                   | 1,75-4,40      | 500   | 6.000   |
| ABPT4838 | 4,8 x 38 | <b>7,460</b> | Tx25/OXBIT25  | 27,5                   | 1,75-4,40      | 500   | 3.000   |
| ABPT4850 | 4,8 x 50 | <b>9,363</b> | Tx25/OXBIT25  | 39,5                   | 1,75-4,40      | 500   | 3.000   |

FREE - 1 bit inside each box

# COLOUR LAQUERED SCREW FIXINGS

FURTHER INFORMATION ON PAGE 174



ONLY HEAD






COMPLETE SCREW

Self-drilling screw with two wings drill, countersunk head and Ph recess. Zinc plated

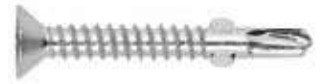
**ABA**



| CODE    | SIZE     | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|----------|--------|---|------------------------|----------------|---|---|
| ABA4832 | 4,8 x 32 | 5,317  | PH2   | 16                     | 1,75 - 4,00    | 500   | 6.000   |
| ABA4838 | 4,8 x 38 | 5,997  | PH2   | 22                     | 1,75 - 4,00    | 500   | 6.000   |
| ABA4845 | 4,8 x 45 | 6,913  | PH2   | 29                     | 1,75 - 4,00    | 500   | 3.000   |
| ABA4850 | 4,8 x 50 | 8,070  | PH2   | 34                     | 1,75 - 4,00    | 500   | 3.000   |
| ABA5538 | 5,5 x 38 | 9,180  | PH2   | 19                     | 1,75 - 5,00    | 500   | 3.000   |
| ABA5545 | 5,5 x 45 | 9,343  | PH2   | 26                     | 1,75 - 5,00    | 500   | 3.000   |
| ABA5555 | 5,5 x 55 | 11,150 | PH2   | 36                     | 1,75 - 5,00    | 500   | 3.000   |
| ABA5565 | 5,5 x 65 | 13,540 | PH2   | 46                     | 1,75 - 5,00    | 500   | 2.000   |
| ABA6360 | 6,3 x 60 | 17,683 | PH3   | 40                     | 2,50 - 6,00    | 250   | 1.500   |
| ABA6370 | 6,3 x 70 | 20,127 | PH3   | 50                     | 2,50 - 6,00    | 250   | 1.500   |
| ABA6385 | 6,3 x 85 | 24,157 | PH3   | 65                     | 2,50 - 6,00    | 250   | 1.000   |




**ABA**

Zinc-plated. PH recess



Available in different coatings. Ask for price and delivery time.



| CODE    | SIZE      | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|-----------|--------|---|------------------------|----------------|---|---|
| ATA4832 | 4,8 x 32  | 5,463  | TX25  | 16                     | 1,75 - 4,00    | 500   | 6.000   |
| ATA4838 | 4,8 x 38  | 6,163  | TX25  | 22                     | 1,75 - 4,00    | 500   | 6.000   |
| ATA4845 | 4,8 x 45  | 7,100  | TX25  | 29                     | 1,75 - 4,00    | 500   | 3.000   |
| ATA4850 | 4,8 x 50  | 8,293  | TX25  | 34                     | 1,75 - 4,00    | 500   | 3.000   |
| ATA5538 | 5,5 x 38  | 9,437  | TX25  | 19                     | 1,75 - 5,00    | 500   | 3.000   |
| ATA5545 | 5,5 x 45  | 9,607  | TX25  | 26                     | 1,75 - 5,00    | 500   | 3.000   |
| ATA5550 | 5,5 x 50  | 11,197 | TX25  | 31                     | 1,75 - 5,00    | 500   | 3.000   |
| ATA5555 | 5,5 x 55  | 11,460 | TX25  | 36                     | 1,75 - 5,00    | 500   | 2.000   |
| ATA5565 | 5,5 x 65  | 13,923 | TX25  | 46                     | 1,75 - 5,00    | 500   | 2.000   |
| ATA6350 | 6,3 x 50  | 16,360 | TX30  | 30                     | 2,50 - 6,00    | 500   | 2.000   |
| ATA6360 | 6,3 x 60  | 18,177 | TX30  | 40                     | 2,50 - 6,00    | 250   | 1.500   |
| ATA6370 | 6,3 x 70  | 20,690 | TX30  | 50                     | 2,50 - 6,00    | 250   | 1.500   |
| ATA6385 | 6,3 x 85  | 24,830 | TX30  | 65                     | 2,50 - 6,00    | 250   | 1.000   |
| ATA6310 | 6,3 x 100 | 35,780 | TX30  | 80                     | 2,50 - 6,00    | 250   | 750   |

**ATA**

Zinc-plated. TX recess






Available in different coatings. Ask for price and delivery time.

Self-drilling screw, blind-rivet head and PH recess

**RS**



| CODE    | SIZE     | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|----------|--------|---|------------------------|----------------|---|---|
| RSZ3509 | 3,5 x 9  | 3,590  | PH2   | 2,8                    | 0,75 - 2,25    | 500   | 22.500  |
| RSZ3513 | 3,5 x 13 | 3,933  | PH2   | 6,2                    | 0,75 - 2,25    | 500   | 22.500  |
| RSZ3516 | 3,5 x 16 | 4,343  | PH2   | 9,2                    | 0,75 - 2,25    | 500   | 22.500  |
| RSZ4213 | 4,2 x 13 | 5,037  | PH2   | 4,3                    | 1,75 - 3       | 500   | 22.500  |
| RSZ4216 | 4,2 x 16 | 5,247  | PH2   | 7,3                    | 1,75 - 3       | 500   | 12.000  |
| RSZ4219 | 4,2 x 19 | 6,047  | PH2   | 10,3                   | 1,75 - 3       | 500   | 12.000  |
| RSZ4225 | 4,2 x 25 | 7,853  | PH2   | 16,3                   | 1,75 - 3       | 250   | 6.000   |
| RSZ4232 | 4,2 x 32 | 8,210  | PH2   | 23                     | 1,75 - 3       | 250   | 6.000   |
| RSZ4813 | 4,8 x 13 | 7,550  | PH2   | 3,7                    | 1,75 - 4,4     | 500   | 12.000  |
| RSZ4816 | 4,8 x 16 | 7,763  | PH2   | 5,5                    | 1,75 - 4,4     | 250   | 11.250  |
| RSZ4819 | 4,8 x 19 | 8,807  | PH2   | 8,7                    | 1,75 - 4,4     | 250   | 11.250  |
| RSZ4825 | 4,8 x 25 | 10,687 | PH2   | 14,7                   | 1,75 - 4,4     | 250   | 6.000   |
| RSZ4832 | 4,8 x 32 | 11,400 | PH2   | 21,5                   | 1,75 - 4,4     | 250   | 3.000   |
| RSZ4838 | 4,8 x 38 | 12,973 | PH2   | 27,5                   | 1,75 - 4,4     | 250   | 3.000   |

**RS**




Zinc-plated



Available in different coatings. Ask for price and delivery time.

**STAINLESS STEEL**



| CODE     | SIZE      | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|-----------|--------|---|------------------------|----------------|---|---|
| RSA23509 | 3,5 x 9,5 | 16,293 | PH2   | 2,8                    | 0,75 - 2,25    | 500   | 22.500  |
| RSA24213 | 4,2 x 13  | 23,473 | PH2   | 7,3                    | 1,75 - 3       | 500   | 22.500  |
| RSA24216 | 4,2 x 16  | 25,003 | PH2   | 10,3                   | 1,75 - 3       | 500   | 12.000  |
| RSA24219 | 4,2 x 19  | 26,513 | PH2   | 16,3                   | 1,75 - 3       | 500   | 12.000  |
| RSA24816 | 4,8 x 16  | 32,807 | PH2   | 5,5                    | 1,75 - 4,4     | 250   | 11.250  |
| RSA24819 | 4,8 x 19  | 35,160 | PH2   | 8,7                    | 1,75 - 4,4     | 250   | 11.250  |
| RSA24825 | 4,8 x 25  | 39,657 | PH2   | 14,7                   | 1,75 - 4,4     | 250   | 6.000   |

**RS-A2**

Stainless Steel A2





# BCP

Extra low head self-drilling screw and Ph recess

## BCP Z

Zinc-plated. PH recess



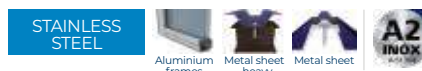
| CODE     | SIZE     | €/100        |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|----------|--------------|---|------------------------|----------------|---|---|
| BCPZ4214 | 4,2 x 14 | <b>2,317</b> | PH2   | 6                      | 0,70-2,00      | 500   | 12.000  |
| BCPZ4223 | 4,2 x 23 | <b>3,433</b> | PH2   | 15                     | 0,70-2,00      | 500   | 12.000  |




Available in different coatings. Ask for price and delivery time.

## BCP A2

A2 Stainless steel. PH recess






| CODE      | SIZE     | €/100         |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|-----------|----------|---------------|---|------------------------|----------------|---|---|
| BCPA24214 | 4,2 x 14 | <b>23,523</b> | PH2   | 6                      | 0,70-2,00      | 500   | 12.000  |
| BCPA24223 | 4,2 x 23 | <b>32,470</b> | PH2   | 6                      | -              | 500   | 12.000  |

## BCP N

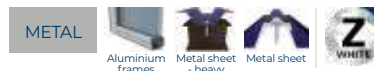
Black. PH recess






| CODE     | SIZE     | €/100        |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|----------|--------------|---|------------------------|----------------|---|---|
| BCPN4214 | 4,2 x 14 | <b>3,493</b> | PH2   | 6                      | 0,70-2,00      | 500   | 12.000  |
| BCPN4223 | 4,2 x 23 | <b>5,167</b> | PH2   | 15                     | 0,70-2,00      | 500   | 12.000  |

## BCP B

White. PH recess




| CODE     | SIZE     | €/100        |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|----------|--------------|---|------------------------|----------------|---|---|
| BCPB4214 | 4,2 x 14 | <b>5,423</b> | PH2   | 6                      | 0,70-2,00      | 500   | 12.000  |
| BCPB4223 | 4,2 x 23 | <b>8,177</b> | PH2   | 15                     | 0,70-2,00      | 500   | 12.000  |

## BCP CB

White lacquered head. PH recess






| CODE       | SIZE     | €/100         |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|------------|----------|---------------|---|------------------------|----------------|---|---|
| BCPZ4214BL | 4,2 x 14 | <b>9,687</b>  | PH2   | 6                      | 0,70-2,00      | 500   | 22.500  |
| BCPZ4223BL | 4,2 x 23 | <b>12,153</b> | PH2   | 15                     | 0,70-2,00      | 500   | 12.000  |

Extra low panhead self-drilling screw, Ph recess and stamped washer

TAE

METAL



| CODE     | SIZE     | €/100        |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|----------|--------------|---|------------------------|----------------|---|---|
| TAEZ4213 | 4,2 x 13 | <b>3,890</b> | PH2   | 4,3                    | 0,75 - 2,50    | 500   | 12.000  |
| TAEZ4216 | 4,2 x 16 | <b>4,300</b> | PH2   | 7,3                    | 0,75 - 2,50    | 500   | 8.000   |
| TAEZ4219 | 4,2 x 19 | <b>4,793</b> | PH2   | 10,3                   | 0,75 - 2,50    | 500   | 6.000   |
| TAEZ4225 | 4,2 x 25 | <b>4,903</b> | PH2   | 16,3                   | 0,75 - 2,50    | 500   | 6.000   |
| TAEZ4232 | 4,2 x 32 | <b>5,630</b> | PH2   | 23                     | 0,75 - 2,50    | 500   | 6.000   |

TAEZ




Zinc-plated. TX recess



Available in different coatings. Ask for price and delivery time.

METAL



| CODE     | SIZE     | €/100         |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|----------|---------------|---|------------------------|----------------|---|---|
| TAEN4213 | 4,2 x 13 | <b>7,227</b>  | PH2   | 4,3                    | 0,75 - 2,50    | 500   | 12.000  |
| TAEN4216 | 4,2 x 16 | <b>7,723</b>  | PH2   | 7,3                    | 0,75 - 2,50    | 500   | 8.000   |
| TAEN4219 | 4,2 x 19 | <b>9,420</b>  | PH2   | 10,3                   | 0,75 - 2,50    | 500   | 6.000   |
| TAEN4225 | 4,2 x 25 | <b>11,213</b> | PH2   | 16,3                   | 0,75 - 2,50    | 500   | 6.000   |
| TAEN4232 | 4,2 x 32 | <b>12,810</b> | PH2   | 23                     | 0,75 - 2,50    | 500   | 6.000   |

TAEN

Black. PH recess



Panhead self-tapping screw

DIN-7981 H

METAL



| CODE       | SIZE      | €/100         |  |  |  |
|------------|-----------|---------------|---|---|---|
| T813509BLE | 3,5 x 9,5 | <b>4,070</b>  | PH2   | 1.000   | 24.000  |
| T814213BLE | 4,2 x 13  | <b>6,467</b>  | PH2   | 500   | 12.000  |
| T814225BLE | 4,2 x 25  | <b>10,137</b> | PH2   | 250   | 6.000   |




DIN-7981 HP B

White. PH recess



METAL



| CODE      | SIZE      | €/100         |  |  |  |
|-----------|-----------|---------------|---|---|---|
| TZN812909 | 2,9 x 9,5 | <b>2,093</b>  | PH1   | 1.000   | 30.000  |
| TZN813513 | 3,5 x 13  | <b>2,767</b>  | PH2   | 500   | 15.000  |
| TZN813516 | 3,5 x 16  | <b>3,383</b>  | PH2   | 500   | 12.000  |
| TZN813519 | 3,5 x 19  | <b>3,840</b>  | PH2   | 500   | 12.000  |
| TZN813525 | 3,5 x 25  | <b>5,223</b>  | PH2   | 250   | 6.000   |
| TZN814216 | 4,2 x 16  | <b>4,423</b>  | PH2   | 500   | 12.000  |
| TZN814219 | 4,2 x 19  | <b>4,790</b>  | PH2   | 500   | 8.000   |
| TZN814225 | 4,2 x 25  | <b>5,470</b>  | PH2   | 250   | 6.000   |
| TZN814232 | 4,2 x 32  | <b>7,543</b>  | PH2   | 250   | 6.000   |
| TZN814238 | 4,2 x 38  | <b>8,543</b>  | PH2   | 250   | 3.000   |
| TZN814816 | 4,8 x 16  | <b>6,163</b>  | PH2   | 250   | 6.000   |
| TZN814819 | 4,8 x 19  | <b>6,797</b>  | PH2   | 250   | 6.000   |
| TZN814822 | 4,8 x 22  | <b>7,223</b>  | PH2   | 250   | 6.000   |
| TZN814825 | 4,8 x 25  | <b>7,167</b>  | PH2   | 250   | 6.000   |
| TZN814838 | 4,8 x 38  | <b>10,547</b> | PH2   | 250   | 3.000   |
| TZN814850 | 4,8 x 50  | <b>15,020</b> | PH2   | 250   | 3.000   |

DIN-7981 HP N

Black. PH recess



# DIN-7981 H

Panhead self-tapping screw

## DIN-7981 HP Z







Zinc-plated. PH recess



Available in different colours



Available in different coatings. Ask for price and delivery time.

| CODE     | SIZE      | €/100  |  |  |  | CODE     | SIZE      | €/100  |  |  |  |
|----------|-----------|--------|---|---|---|----------|-----------|--------|---|---|---|
| T8129006 | 2,9 x 6,5 | 1,390  | PH1   | 1.000   | 45.000  | T8148025 | 4,8 x 25  | 5,000  | PH2   | 250   | 6.000   |
| T8129009 | 2,9 x 9,5 | 1,437  | PH1   | 1.000   | 30.000  | T8148032 | 4,8 x 32  | 5,617  | PH2   | 250   | 4.000   |
| T8129013 | 2,9 x 13  | 1,450  | PH1   | 1.000   | 24.000  | T8148038 | 4,8 x 38  | 6,583  | PH2   | 250   | 3.000   |
| T8129016 | 2,9 x 16  | 1,623  | PH1   | 1.000   | 24.000  | T8148045 | 4,8 x 45  | 7,457  | PH2   | 250   | 3.000   |
| T8129019 | 2,9 x 19  | 1,757  | PH1   | 1.000   | 24.000  | T8148050 | 4,8 x 50  | 8,113  | PH2   | 250   | 3.000   |
| T8129022 | 2,9 x 22  | 2,017  | PH1   | 1.000   | 12.000  | T8148060 | 4,8 x 60  | 10,223 | PH2   | 250   | 1.500   |
| T8129025 | 2,9 x 25  | 2,267  | PH1   | 500   | 12.000  | T8148070 | 4,8 x 70  | 12,150 | PH2   | 100   | 1.200   |
| T8135006 | 3,5 x 6,5 | 1,450  | PH2   | 1.000   | 24.000  | T8148080 | 4,8 x 80  | 14,913 | PH2   | 100   | 1.200   |
| T8135009 | 3,5 x 9,5 | 1,487  | PH2   | 1.000   | 24.000  | T8148090 | 4,8 x 90  | 17,280 | PH2   | 100   | 1.200   |
| T8135013 | 3,5 x 13  | 1,770  | PH2   | 500   | 15.000  | T8148100 | 4,8 x 100 | 18,800 | PH2   | 100   | 1.200   |
| T8135016 | 3,5 x 16  | 2,053  | PH2   | 500   | 12.000  | T8148110 | 4,8 x 110 | 23,590 | PH2   | 100   | 1.200   |
| T8135019 | 3,5 x 19  | 2,237  | PH2   | 500   | 12.000  | T8148120 | 4,8 x 120 | 27,853 | PH2   | 100   | 1.200   |
| T8135025 | 3,5 x 25  | 2,873  | PH2   | 250   | 6.000   | T8155013 | 5,5 x 13  | 4,890  | PH3   | 250   | 6.000   |
| T8135032 | 3,5 x 32  | 3,427  | PH2   | 250   | 6.000   | T8155016 | 5,5 x 16  | 5,227  | PH3   | 250   | 6.000   |
| T8139009 | 3,9 x 9,5 | 1,787  | PH2   | 500   | 15.000  | T8155019 | 5,5 x 19  | 5,470  | PH3   | 250   | 6.000   |
| T8139013 | 3,9 x 13  | 2,163  | PH2   | 500   | 12.000  | T8155022 | 5,5 x 22  | 6,340  | PH3   | 250   | 4.000   |
| T8139016 | 3,9 x 16  | 2,353  | PH2   | 500   | 12.000  | T8155025 | 5,5 x 25  | 6,537  | PH3   | 250   | 4.000   |
| T8139019 | 3,9 x 19  | 2,693  | PH2   | 500   | 12.000  | T8155032 | 5,5 x 32  | 7,653  | PH3   | 250   | 3.000   |
| T8139022 | 3,9 x 22  | 2,997  | PH2   | 250   | 6.000   | T8155038 | 5,5 x 38  | 8,550  | PH3   | 250   | 3.000   |
| T8139025 | 3,9 x 25  | 3,320  | PH2   | 250   | 6.000   | T8155045 | 5,5 x 45  | 9,787  | PH3   | 250   | 3.000   |
| T8139032 | 3,9 x 32  | 3,753  | PH2   | 250   | 6.000   | T8155050 | 5,5 x 50  | 10,693 | PH3   | 250   | 1.500   |
| T8139038 | 3,9 x 38  | 4,387  | PH2   | 250   | 6.000   | T8155060 | 5,5 x 60  | 13,290 | PH3   | 100   | 1.200   |
| T8139045 | 3,9 x 45  | 5,290  | PH2   | 250   | 3.000   | T8155070 | 5,5 x 70  | 14,753 | PH3   | 100   | 1.200   |
| T8139050 | 3,9 x 50  | 5,873  | PH2   | 250   | 3.000   | T8155080 | 5,5 x 80  | 18,393 | PH3   | 100   | 1.200   |
| T8142009 | 4,2 x 9,5 | 2,243  | PH2   | 500   | 12.000  | T8155090 | 5,5 x 90  | 21,140 | PH3   | 100   | 1.200   |
| T8142013 | 4,2 x 13  | 2,420  | PH2   | 500   | 12.000  | T8155100 | 5,5 x 100 | 24,703 | PH3   | 100   | 1.200   |
| T8142016 | 4,2 x 16  | 2,907  | PH2   | 500   | 12.000  | T8155110 | 5,5 x 110 | 29,923 | PH3   | 100   | 1.200   |
| T8142019 | 4,2 x 19  | 2,940  | PH2   | 500   | 8.000   | T8155120 | 5,5 x 120 | 35,753 | PH3   | 100   | 1.200   |
| T8142022 | 4,2 x 22  | 3,653  | PH2   | 250   | 6.000   | T8163016 | 6,3 x 16  | 6,973  | PH3   | 250   | 4.000   |
| T8142025 | 4,2 x 25  | 3,663  | PH2   | 250   | 6.000   | T8163019 | 6,3 x 19  | 7,430  | PH3   | 250   | 3.000   |
| T8142032 | 4,2 x 32  | 4,290  | PH2   | 250   | 6.000   | T8163022 | 6,3 x 22  | 7,967  | PH3   | 250   | 3.000   |
| T8142038 | 4,2 x 38  | 5,020  | PH2   | 250   | 3.000   | T8163025 | 6,3 x 25  | 8,493  | PH3   | 250   | 3.000   |
| T8142045 | 4,2 x 45  | 5,747  | PH2   | 250   | 3.000   | T8163032 | 6,3 x 32  | 10,627 | PH3   | 250   | 3.000   |
| T8142050 | 4,2 x 50  | 6,073  | PH2   | 250   | 3.000   | T8163038 | 6,3 x 38  | 12,017 | PH3   | 250   | 1.500   |
| T8142060 | 4,2 x 60  | 8,190  | PH2   | 250   | 3.000   | T8163045 | 6,3 x 45  | 14,067 | PH3   | 250   | 1.500   |
| T8142070 | 4,2 x 70  | 9,200  | PH2   | 250   | 1.500   | T8163050 | 6,3 x 50  | 15,363 | PH3   | 250   | 1.500   |
| T8142080 | 4,2 x 80  | 10,950 | PH2   | 250   | 1.500   | T8163060 | 6,3 x 60  | 17,743 | PH3   | 100   | 1.200   |
| T8142090 | 4,2 x 90  | 14,883 | PH2   | 250   | 1.500   | T8163070 | 6,3 x 70  | 20,183 | PH3   | 100   | 1.200   |
| T8148009 | 4,8 x 9,5 | 3,200  | PH2   | 500   | 12.000  | T8163080 | 6,3 x 80  | 24,970 | PH3   | 100   | 1.200   |
| T8148013 | 4,8 x 13  | 3,263  | PH2   | 500   | 8.000   | T8163090 | 6,3 x 90  | 31,983 | PH3   | 50  | 600   |
| T8148016 | 4,8 x 16  | 3,653  | PH2   | 250   | 6.000   | T8163100 | 6,3 x 100 | 36,987 | PH3   | 50  | 600   |
| T8148019 | 4,8 x 19  | 4,363  | PH2   | 250   | 6.000   | T8163110 | 6,3 x 110 | 40,570 | PH3   | 50  | 600   |
| T8148022 | 4,8 x 22  | 4,767  | PH2   | 250   | 6.000   | T8163120 | 6,3 x 120 | 43,523 | PH3   | 50  | 600   |

### Blister

| CODE       | SIZE      | €/BAG | PCS | BAGS |
|------------|-----------|-------|-----|------|
| BZT8135009 | 3,5 x 9,5 | 1,820 | 40  | 20   |
| BZT8135013 | 3,5 x 13  | 1,820 | 20  | 20   |
| BZT8135016 | 3,5 x 16  | 1,820 | 20  | 20   |
| BZT8135019 | 3,5 x 19  | 1,820 | 20  | 20   |
| BZT8139013 | 3,9 x 13  | 1,820 | 20  | 20   |
| BZT8139016 | 3,9 x 16  | 1,820 | 20  | 20   |
| BZT8139019 | 3,9 x 19  | 1,820 | 20  | 20   |
| BZT8139025 | 3,9 x 25  | 1,820 | 10  | 20   |
| BZT8139032 | 3,9 x 32  | 1,820 | 10  | 20   |
| BZT8142009 | 4,2 x 9,5 | 1,820 | 20  | 20   |
| BZT8142013 | 4,2 x 13  | 1,820 | 20  | 20   |
| BZT8142016 | 4,2 x 16  | 1,820 | 20  | 20   |
| BZT8142019 | 4,2 x 19  | 1,820 | 20  | 20   |
| BZT8142025 | 4,2 x 25  | 1,820 | 10  | 20   |
| BZT8142032 | 4,2 x 32  | 1,820 | 10  | 20   |
| BZT8142038 | 4,2 x 38  | 1,820 | 10  | 20   |
| BZT8148016 | 4,8 x 16  | 1,820 | 10  | 20   |
| BZT8148019 | 4,8 x 19  | 1,820 | 10  | 20   |
| BZT8148025 | 4,8 x 25  | 1,820 | 10  | 20   |
| BZT8148032 | 4,8 x 32  | 1,820 | 10  | 20   |
| BZT8148038 | 4,8 x 38  | 1,820 | 10  | 20   |
| BZT8148050 | 4,8 x 50  | 1,820 | 10  | 20   |
| BZT8148060 | 4,8 x 60  | 1,820 | 10  | 20   |
| BZT8155025 | 5,5 x 25  | 1,820 | 10  | 20   |
| BZT8155032 | 5,5 x 32  | 1,820 | 10  | 20   |
| BZT8155038 | 5,5 x 38  | 1,820 | 10  | 20   |
| BZT8155050 | 5,5 x 50  | 1,820 | 10  | 20   |

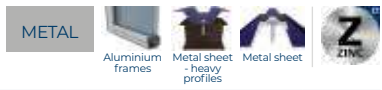
### Window box

| CODE      | SIZE      | €/BOX  | PCS | BOXES |
|-----------|-----------|--------|-----|-------|
| VT8135009 | 3,5 x 9,5 | 5,513  | 250 | 8     |
| VT8135013 | 3,5 x 13  | 5,415  | 200 | 8     |
| VT8135016 | 3,5 x 16  | 5,969  | 200 | 8     |
| VT8135019 | 3,5 x 19  | 6,498  | 200 | 8     |
| VT8135025 | 3,5 x 25  | 8,633  | 200 | 8     |
| VT8139009 | 3,9 x 9,5 | 5,722  | 200 | 8     |
| VT8139013 | 3,9 x 13  | 6,396  | 200 | 8     |
| VT8139016 | 3,9 x 16  | 7,040  | 200 | 8     |
| VT8139019 | 3,9 x 19  | 6,182  | 150 | 8     |
| VT8139022 | 3,9 x 22  | 4,909  | 100 | 8     |
| VT8139025 | 3,9 x 25  | 5,140  | 100 | 8     |
| VT8142009 | 4,2 x 9,5 | 6,890  | 200 | 8     |
| VT8142013 | 4,2 x 13  | 7,011  | 200 | 8     |
| VT8142016 | 4,2 x 16  | 8,357  | 200 | 8     |
| VT8142019 | 4,2 x 19  | 6,638  | 150 | 8     |
| VT8142022 | 4,2 x 22  | 5,491  | 100 | 8     |
| VT8142025 | 4,2 x 25  | 5,308  | 100 | 8     |
| VT8142032 | 4,2 x 32  | 6,263  | 100 | 8     |
| VT8142038 | 4,2 x 38  | 5,532  | 75  | 8     |
| VT8142050 | 4,2 x 50  | 4,855  | 50  | 8     |
| VT8148009 | 4,8 x 9,5 | 6,752  | 150 | 8     |
| VT8148013 | 4,8 x 13  | 7,030  | 150 | 8     |
| VT8148016 | 4,8 x 16  | 5,282  | 100 | 8     |
| VT8148019 | 4,8 x 19  | 6,004  | 100 | 8     |
| VT8148025 | 4,8 x 25  | 7,135  | 100 | 8     |
| VT8148032 | 4,8 x 32  | 7,831  | 100 | 8     |
| VT8148038 | 4,8 x 38  | 9,899  | 100 | 8     |
| VT8148045 | 4,8 x 45  | 7,968  | 70  | 8     |
| VT8148050 | 4,8 x 50  | 6,099  | 50  | 8     |
| VT8148060 | 4,8 x 60  | 7,683  | 50  | 8     |
| VT8148070 | 4,8 x 70  | 7,312  | 40  | 8     |
| VT8148080 | 4,8 x 80  | 5,845  | 25  | 8     |
| VT8155019 | 5,5 x 19  | 8,113  | 100 | 8     |
| VT8155025 | 5,5 x 25  | 8,705  | 90  | 8     |
| VT8155032 | 5,5 x 32  | 11,172 | 100 | 8     |
| VT8155038 | 5,5 x 38  | 9,567  | 75  | 8     |



Countersunk head self tapping screw

# DIN-7982 H



| CODE     | SIZE      | €/100        |     |       |        |
|----------|-----------|--------------|-----|-------|--------|
| T8229006 | 2,9 x 6,5 | <b>1,587</b> | PH1 | 1.000 | 45.000 |
| T8229009 | 2,9 x 9,5 | <b>1,457</b> | PH1 | 1.000 | 45.000 |
| T8229013 | 2,9 x 13  | <b>1,473</b> | PH1 | 1.000 | 45.000 |
| T8229016 | 2,9 x 16  | <b>1,517</b> | PH1 | 1.000 | 24.000 |
| T8229019 | 2,9 x 19  | <b>1,843</b> | PH1 | 1.000 | 24.000 |
| T8229022 | 2,9 x 22  | <b>1,860</b> | PH1 | 1.000 | 24.000 |
| T8229025 | 2,9 x 25  | <b>2,327</b> | PH1 | 500   | 12.000 |
| T8235009 | 3,5 x 9,5 | <b>1,630</b> | PH2 | 1.000 | 24.000 |
| T8235013 | 3,5 x 13  | <b>1,830</b> | PH2 | 500   | 22.500 |
| T8235016 | 3,5 x 16  | <b>2,057</b> | PH2 | 500   | 22.500 |
| T8235019 | 3,5 x 19  | <b>2,277</b> | PH2 | 500   | 12.000 |
| T8235022 | 3,5 x 22  | <b>2,530</b> | PH2 | 500   | 12.000 |
| T8235025 | 3,5 x 25  | <b>3,100</b> | PH2 | 250   | 11.250 |
| T8235032 | 3,5 x 32  | <b>3,690</b> | PH2 | 250   | 6.000  |
| T8235038 | 3,5 x 38  | <b>4,177</b> | PH2 | 250   | 6.000  |
| T8239009 | 3,9 x 9,5 | <b>1,960</b> | PH2 | 500   | 22.500 |
| T8239013 | 3,9 x 13  | <b>2,137</b> | PH2 | 500   | 12.000 |
| T8239016 | 3,9 x 16  | <b>2,427</b> | PH2 | 500   | 12.000 |
| T8239019 | 3,9 x 19  | <b>2,677</b> | PH2 | 500   | 12.000 |
| T8239022 | 3,9 x 22  | <b>3,327</b> | PH2 | 250   | 6.000  |
| T8239025 | 3,9 x 25  | <b>3,623</b> | PH2 | 250   | 6.000  |
| T8239032 | 3,9 x 32  | <b>4,390</b> | PH2 | 250   | 6.000  |
| T8239038 | 3,9 x 38  | <b>4,800</b> | PH2 | 250   | 6.000  |
| T8239045 | 3,9 x 45  | <b>5,453</b> | PH2 | 250   | 3.000  |
| T8239050 | 3,9 x 50  | <b>6,400</b> | PH2 | 250   | 3.000  |
| T8242013 | 4,2 x 13  | <b>2,350</b> | PH2 | 500   | 15.000 |
| T8242016 | 4,2 x 16  | <b>2,607</b> | PH2 | 500   | 12.000 |
| T8242019 | 4,2 x 19  | <b>3,177</b> | PH2 | 500   | 12.000 |
| T8242022 | 4,2 x 22  | <b>3,670</b> | PH2 | 250   | 11.250 |
| T8242025 | 4,2 x 25  | <b>3,950</b> | PH2 | 250   | 6.000  |
| T8242032 | 4,2 x 32  | <b>4,637</b> | PH2 | 250   | 6.000  |
| T8242038 | 4,2 x 38  | <b>5,470</b> | PH2 | 250   | 6.000  |
| T8242045 | 4,2 x 45  | <b>6,323</b> | PH2 | 250   | 3.000  |

| CODE     | SIZE     | €/100         |     |     |        |
|----------|----------|---------------|-----|-----|--------|
| T8242050 | 4,2 x 50 | <b>7,073</b>  | PH2 | 250 | 3.000  |
| T8242060 | 4,2 x 60 | <b>8,763</b>  | PH2 | 250 | 3.000  |
| T8242070 | 4,2 x 70 | <b>10,387</b> | PH2 | 250 | 3.000  |
| T8248013 | 4,8 x 13 | <b>3,153</b>  | PH2 | 500 | 12.000 |
| T8248016 | 4,8 x 16 | <b>3,757</b>  | PH2 | 250 | 11.250 |
| T8248019 | 4,8 x 19 | <b>4,490</b>  | PH2 | 250 | 6.000  |
| T8248022 | 4,8 x 22 | <b>4,737</b>  | PH2 | 250 | 6.000  |
| T8248025 | 4,8 x 25 | <b>5,377</b>  | PH2 | 250 | 6.000  |
| T8248032 | 4,8 x 32 | <b>6,000</b>  | PH2 | 250 | 6.000  |
| T8248038 | 4,8 x 38 | <b>7,220</b>  | PH2 | 250 | 3.000  |
| T8248045 | 4,8 x 45 | <b>8,150</b>  | PH2 | 250 | 3.000  |
| T8248050 | 4,8 x 50 | <b>9,740</b>  | PH2 | 250 | 3.000  |
| T8248060 | 4,8 x 60 | <b>11,093</b> | PH2 | 250 | 1.500  |
| T8248070 | 4,8 x 70 | <b>13,813</b> | PH2 | 100 | 2.400  |
| T8255013 | 5,5 x 13 | <b>4,427</b>  | PH3 | 250 | 7.500  |
| T8255016 | 5,5 x 16 | <b>4,963</b>  | PH3 | 250 | 6.000  |
| T8255019 | 5,5 x 19 | <b>5,697</b>  | PH3 | 250 | 6.000  |
| T8255022 | 5,5 x 22 | <b>6,637</b>  | PH3 | 250 | 6.000  |
| T8255025 | 5,5 x 25 | <b>7,007</b>  | PH3 | 250 | 6.000  |
| T8255032 | 5,5 x 32 | <b>8,093</b>  | PH3 | 250 | 3.000  |
| T8255038 | 5,5 x 38 | <b>9,197</b>  | PH3 | 250 | 3.000  |
| T8255045 | 5,5 x 45 | <b>10,730</b> | PH3 | 250 | 3.000  |
| T8255050 | 5,5 x 50 | <b>13,417</b> | PH3 | 250 | 1.500  |
| T8255060 | 5,5 x 60 | <b>15,260</b> | PH3 | 100 | 1.200  |
| T8255070 | 5,5 x 70 | <b>17,160</b> | PH3 | 100 | 1.200  |
| T8263025 | 6,3 x 25 | <b>9,970</b>  | PH3 | 250 | 3.000  |
| T8263032 | 6,3 x 32 | <b>12,347</b> | PH3 | 250 | 3.000  |
| T8263038 | 6,3 x 38 | <b>12,747</b> | PH3 | 250 | 3.000  |
| T8263045 | 6,3 x 45 | <b>12,970</b> | PH3 | 250 | 1.500  |
| T8263050 | 6,3 x 50 | <b>15,550</b> | PH3 | 250 | 1.500  |
| T8263060 | 6,3 x 60 | <b>21,717</b> | PH3 | 100 | 1.200  |
| T8263070 | 6,3 x 70 | <b>22,713</b> | PH3 | 100 | 1.200  |



**Blister**

| CODE       | SIZE     | €/BAG        | PCS BAG | BAGS |
|------------|----------|--------------|---------|------|
| BZT8242019 | 4,2 x 19 | <b>1,820</b> | 20      | 20   |
| BZT8242025 | 4,2 x 25 | <b>1,820</b> | 10      | 20   |
| BZT8248025 | 4,8 x 25 | <b>1,820</b> | 10      | 20   |
| BZT8248038 | 4,8 x 38 | <b>1,820</b> | 10      | 20   |

**Window box**

| CODE      | SIZE      | €/BOX        | PCS BOX | BOXES |
|-----------|-----------|--------------|---------|-------|
| VT8235009 | 3,5 x 9,5 | <b>5,434</b> | 250     | 8     |
| VT8235013 | 3,5 x 13  | <b>4,724</b> | 200     | 8     |
| VT8235016 | 3,5 x 16  | <b>5,190</b> | 200     | 8     |
| VT8235019 | 3,5 x 19  | <b>5,748</b> | 200     | 8     |
| VT8235025 | 3,5 x 25  | <b>3,902</b> | 100     | 8     |
| VT8239016 | 3,9 x 16  | <b>6,090</b> | 200     | 8     |
| VT8239019 | 3,9 x 19  | <b>6,681</b> | 200     | 8     |
| VT8239022 | 3,9 x 22  | <b>4,636</b> | 100     | 8     |
| VT8239025 | 3,9 x 25  | <b>4,943</b> | 100     | 8     |
| VT8242016 | 4,2 x 16  | <b>6,548</b> | 200     | 8     |
| VT8242019 | 4,2 x 19  | <b>7,308</b> | 200     | 8     |
| VT8242025 | 4,2 x 25  | <b>4,893</b> | 100     | 8     |
| VT8242032 | 4,2 x 32  | <b>5,672</b> | 100     | 8     |
| VT8248019 | 4,8 x 19  | <b>5,330</b> | 100     | 8     |
| VT8248025 | 4,8 x 25  | <b>6,666</b> | 100     | 8     |
| VT8248032 | 4,8 x 32  | <b>6,890</b> | 95      | 8     |
| VT8248038 | 4,8 x 38  | <b>7,109</b> | 80      | 8     |
| VT8255032 | 5,5 x 32  | <b>7,768</b> | 75      | 8     |
| VT8255038 | 5,5 x 38  | <b>8,078</b> | 70      | 8     |

### PAINTED SCREW (FULL)



| DIAMETER                  | LENGTH                   | MINIMUM QUANTITY                      |
|---------------------------|--------------------------|---------------------------------------|
| Min. 2,9 mm - Max. 5,5 mm | Min. 6,5 mm - Max. 32 mm | 15 Kgs (*)<br>(* Per size and colour) |

### PAINTED SCREW (HEAD ONLY)



| DIAMETER                  | LENGTH                  | MINIMUM QUANTITY                    |
|---------------------------|-------------------------|-------------------------------------|
| Min. 3,9 mm - Max. 6,3 mm | Min. 13 mm - Max. 90 mm | (*)<br>(* Ask for minimum quantity) |

#### Available colours

|  |                       |  |                |
|--|-----------------------|--|----------------|
|  | RAL 3005 Burgundy red |  | RAL 9005 Black |
|  | RAL 5009 Blue         |  | RAL 9010 White |
|  | RAL 6005 Moss green   |  |                |

#### Available colours

|  |                           |  |                              |
|--|---------------------------|--|------------------------------|
|  | RAL 1000 Bidaso cream     |  | RAL 7016 Anthracite grey     |
|  | RAL 1001 Sand             |  | RAL 7021 Black grey          |
|  | RAL 1007 Copper           |  | RAL 7022 Umbr grey           |
|  | RAL 1011 Brown beige      |  | RAL 7024 Graphite grey       |
|  | RAL 1015 Ivory            |  | RAL 7032 Pebble grey         |
|  | RAL 3002 Carmine red      |  | RAL 7033 Cement grey         |
|  | RAL 3003 Coral red        |  | RAL 7034 Yellow grey         |
|  | RAL 3004 Purple red       |  | RAL 7035 Grey                |
|  | RAL 3005 Burgundy red     |  | RAL 7040 Window grey         |
|  | RAL 3009 Oxide red        |  | RAL 7045 TV grey             |
|  | RAL 3011 Tile red         |  | RAL 8003 Clay brown          |
|  | RAL 3020 Traffic red      |  | RAL 8004 Copper brown        |
|  | RAL 5002 Ultramarine blue |  | RAL 8012 Red brown           |
|  | RAL 5003 Sapphire blue    |  | RAL 8014 Sepia brown         |
|  | RAL 5005 Signal blue      |  | RAL 8017 Chocolate brown     |
|  | RAL 5008 Grey blue        |  | RAL 8019 Grey brown          |
|  | RAL 5009 Blue             |  | RAL 8024 Pale brown          |
|  | RAL 5010 Gentian blue     |  | RAL 8025 Blue Pyrenean white |
|  | RAL 5011 Steel blue       |  | RAL 9002 Signal white        |
|  | RAL 5019 Lagoon blue      |  | RAL 9003 Black               |
|  | RAL 6005 Moss green       |  | RAL 9005 Metallic grey       |
|  | RAL 6009 Fir green        |  | RAL 9006 Grey aluminium      |
|  | RAL 6021 Light green      |  | RAL 9007 White               |
|  | RAL 6022 Olive green      |  | RAL 9010 Graphite black      |
|  | RAL 6028 Navarre green    |  | RAL 9011 Traffic white       |
|  | RAL 7011 Iron grey        |  | RAL 9016 Oyster white        |
|  | RAL 7012 Basalt grey      |  | RAL 9018 Blanco papiro       |
|  | RAL 7015 Slate grey       |  |                              |



**ASK FOR PRICE AND DELIVERY TIM**

We offer a wide range of screws, which can be painted on demand in any of the colours available.

154 DIN-7504-K



156 DIN-7504-K RE



158 AUE



165 DIN-7504-N HP



171 DIN-7981 HP



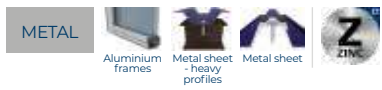
173 DIN-7982 HP








Extra low head self-tapping screw

CP



| CODE     | SIZE     | €/100        |  | THICKNESS MAX. FIXTURE |  |  |
|----------|----------|--------------|---|------------------------|---|---|
| TCPZ4213 | 4,2 x 13 | <b>2,297</b> | PH2   | 6                      | 500   | 12.000  |
| TCPZ4222 | 4,2 x 22 | <b>3,297</b> | PH2   | 15                     | 500   | 12.000  |
| TCPZ4232 | 4,2 x 32 | <b>4,397</b> | PH2   | 25                     | 500   | 6.000   |



**CP-Z**

Zinc-plated. PH recess



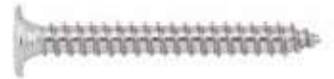
Available in different coatings. Ask for price and delivery time.




| CODE      | SIZE     | €/100         |  | THICKNESS MAX. FIXTURE |  |  |
|-----------|----------|---------------|---|------------------------|---|---|
| TCPA24213 | 4,2 x 13 | <b>9,027</b>  | PH2   | 6                      | 500   | 12.000  |
| TCPA24222 | 4,2 x 22 | <b>17,510</b> | PH2   | 15                     | 500   | 12.000  |
| TCPA24232 | 4,2 x 32 | <b>22,427</b> | PH2   | 25                     | 500   | 6.000   |

**CP-A2**

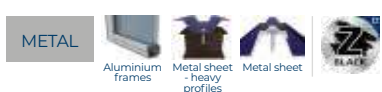
A2 Stainless steel. PH recess






| CODE     | SIZE     | €/100         |  | THICKNESS MAX. FIXTURE |  |  |
|----------|----------|---------------|---|------------------------|---|---|
| TCPB4213 | 4,2 x 13 | <b>5,567</b>  | PH2   | 6                      | 500   | 12.000  |
| TCPB4222 | 4,2 x 22 | <b>8,567</b>  | PH2   | 15                     | 500   | 12.000  |
| TCPB4232 | 4,2 x 32 | <b>11,597</b> | PH2   | 25                     | 500   | 6.000   |

**CP-B**

White. PH recess



| CODE     | SIZE     | €/100        |  | THICKNESS MAX. FIXTURE |  |  |
|----------|----------|--------------|---|------------------------|---|---|
| TCPN4213 | 4,2 x 13 | <b>3,520</b> | PH2   | 6                      | 500   | 12.000  |
| TCPN4222 | 4,2 x 22 | <b>5,297</b> | PH2   | 15                     | 500   | 12.000  |
| TCPN4232 | 4,2 x 32 | <b>7,347</b> | PH2   | 25                     | 500   | 6.000   |

**CP-N**

Black. PH recess



# PVC




Screws for PVC carpentry


## PVC-10 Z

Zinc-plated, head diameter 7,5mm



METAL  

| CODE     | SIZE     | €/100        |  |  |  |
|----------|----------|--------------|---|---|---|
| P103925Z | 3,9 x 25 | <b>3,417</b> | PH2   | 1.000   | 12.000  |
| P103930Z | 3,9 x 30 | <b>4,200</b> | PH2   | 1.000   | 12.000  |
| P103938Z | 3,9 x 38 | <b>4,560</b> | PH2   | 500   | 6.000   |
| P103945Z | 3,9 x 45 | <b>5,887</b> | PH2   | 500   | 3.000   |

 Available in different coatings. Ask for price and delivery time.

## PVC-20 B

Yellow zinc-plated, head diameter 7 mm



METAL  




| CODE    | SIZE     | €/100        |  |  |  |
|---------|----------|--------------|---|---|---|
| P204325 | 4,3 x 25 | <b>3,527</b> | PH2   | 1.000   | 12.000  |
| P204330 | 4,3 x 30 | <b>3,837</b> | PH2   | 1.000   | 6.000   |
| P204338 | 4,3 x 38 | <b>4,810</b> | PH2   | 500   | 6.000   |
| P204345 | 4,3 x 45 | <b>5,447</b> | PH2   | 500   | 3.000   |
| P204355 | 4,3 x 55 | <b>6,633</b> | PH2   | 500   | 3.000   |


## PVC-20 Z

Zinc-plated, head diameter 7 mm



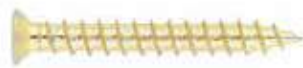
METAL  

| CODE     | SIZE     | €/100        |  |  |  |
|----------|----------|--------------|---|---|---|
| P204316Z | 4,3 x 16 | <b>2,743</b> | PH2   | 1.000   | 24.000  |
| P204319Z | 4,3 x 19 | <b>2,983</b> | PH2   | 1.000   | 12.000  |
| P204322Z | 4,3 x 22 | <b>3,043</b> | PH2   | 1.000   | 12.000  |
| P204325Z | 4,3 x 25 | <b>3,527</b> | PH2   | 1.000   | 12.000  |
| P204330Z | 4,3 x 30 | <b>3,837</b> | PH2   | 1.000   | 6.000   |
| P204338Z | 4,3 x 38 | <b>4,810</b> | PH2   | 500   | 6.000   |
| P204345Z | 4,3 x 45 | <b>5,433</b> | PH2   | 500   | 3.000   |
| P204355Z | 4,3 x 55 | <b>6,633</b> | PH2   | 500   | 3.000   |



 Available in different coatings. Ask for price and delivery time.

## PVC-30

Yellow zinc-plated. Repair screw, head diameter 7,5 mm



METAL  

| CODE    | SIZE     | €/100        |  |  |  |
|---------|----------|--------------|---|---|---|
| P304825 | 4,8 x 25 | <b>6,870</b> | PH2   | 500   | 6.000   |
| P304838 | 4,8 x 38 | <b>9,710</b> | PH2   | 500   | 6.000   |

## PVC-40 B

Yellow zinc-plated, drill point



METAL  

| CODE    | SIZE     | €/100        |  |  |  |
|---------|----------|--------------|---|---|---|
| P403916 | 3,9 x 16 | <b>3,357</b> | PH2   | 1.000   | 16.000  |
| P403919 | 3,9 x 19 | <b>3,587</b> | PH2   | 1.000   | 12.000  |
| P403925 | 3,9 x 25 | <b>4,127</b> | PH2   | 1.000   | 12.000  |
| P403932 | 3,9 x 32 | <b>5,187</b> | PH2   | 1.000   | 6.000   |
| P403938 | 3,9 x 38 | <b>5,817</b> | PH2   | 500   | 6.000   |

Screws for PVC carpentry

PVC



| CODE     | SIZE     | €/100        |  |  |  |
|----------|----------|--------------|---|---|---|
| P403913Z | 3,9 x 13 | <b>2,567</b> | PH2   | 1.000   | 24.000  |
| P403916Z | 3,9 x 16 | <b>3,370</b> | PH2   | 1.000   | 16.000  |
| P403919Z | 3,9 x 19 | <b>3,597</b> | PH2   | 1.000   | 12.000  |
| P403925Z | 3,9 x 25 | <b>4,193</b> | PH2   | 1.000   | 12.000  |
| P403932Z | 3,9 x 32 | <b>5,087</b> | PH2   | 1.000   | 6.000   |
| P403938Z | 3,9 x 38 | <b>5,733</b> | PH2   | 500   | 6.000   |




### PVC-40 Z

Zinc-plated, drill point



Available in different coatings. Ask for price and delivery time.



| CODE    | SIZE    | €/100        |  |  |  |
|---------|---------|--------------|---|---|---|
| P50M416 | M4 x 16 | <b>3,193</b> | PH2   | 1.000   | 16.000  |
| P50M419 | M4 x 19 | <b>3,883</b> | PH2   | 1.000   | 12.000  |
| P50M425 | M4 x 25 | <b>4,593</b> | PH2   | 1.000   | 12.000  |
| P50M432 | M4 x 32 | <b>5,187</b> | PH2   | 1.000   | 6.000   |
| P50M438 | M4 x 38 | <b>6,343</b> | PH2   | 500   | 6.000   |

### PVC-50 B

Yellow zinc-plated, metric thread, drill point



| CODE     | SIZE    | €/100        |  |  |  |
|----------|---------|--------------|---|---|---|
| P50M413Z | M4 x 13 | <b>2,977</b> | PH2   | 1.000   | 24.000  |
| P50M416Z | M4 x 16 | <b>3,193</b> | PH2   | 1.000   | 16.000  |
| P50M419Z | M4 x 19 | <b>3,863</b> | PH2   | 1.000   | 12.000  |
| P50M425Z | M4 x 25 | <b>4,593</b> | PH2   | 1.000   | 12.000  |
| P50M432Z | M4 x 32 | <b>5,187</b> | PH2   | 1.000   | 6.000   |

### PVC-50 Z

Zinc-plated, metric thread, drill point



Available in different coatings. Ask for price and delivery time.



| CODE    | SIZE     | €/100         |  |  |  |
|---------|----------|---------------|---|---|---|
| P704855 | 4,8 x 55 | <b>11,730</b> | PH2   | 500   | 3.000   |
| P704865 | 4,8 x 65 | <b>15,463</b> | PH2   | 500   | 2.000   |
| P704880 | 4,8 x 80 | <b>19,503</b> | PH2   | 250   | 1.500   |
| P704895 | 4,8 x 95 | <b>27,707</b> | PH2   | 250   | 1.500   |

### PVC-70

Yellow zinc-plated, special head for cap



| CODE    | DIAMETER | COLOR | €/100        |  |  |
|---------|----------|-------|--------------|---|---|
| P70TPBL | 13       | WHITE | <b>4,097</b> | 1.000   | 24.000  |
| P70TPNG | 13       | BLACK | <b>4,097</b> | 1.000   | 24.000  |

### PVC-70 TP

Black and white nylon cap for PVC-70 screws



# PVC

Screws for PVC carpentry




## PVC-90

Yellow zinc-plated. Low panhead with washer



METAL



| CODE    | SIZE     | €/100        |  |  |  |
|---------|----------|--------------|---|---|---|
| P903510 | 3,5 x 10 | <b>3,963</b> | PH2   | 1.000   | 24.000  |
| P904017 | 4 x 17   | <b>5,207</b> | PH2   | 1.000   | 12.000  |

## PVC-VEK

VEKAPLAST. Special head



METAL



| CODE    | SIZE               | €/100         |  |  |  |
|---------|--------------------|---------------|---|---|---|
| P100VEK | VEKAPLAST 4,8 x 10 | <b>18,453</b> | PH2   | 500   | 6.000   |



Available in different coatings. Ask for price and delivery time.



## PVC-VEK 13

VEKAPLAST. Special head



METAL



| CODE      | SIZE             | €/100         |  |  |  |
|-----------|------------------|---------------|---|---|---|
| P100VEK13 | VEKAPLAST 4 x 10 | <b>17,083</b> | PH2   | 500   | 12.000  |

## PVC-VEK 10

VEKAPLAST. Special head



METAL



| CODE      | SIZE             | €/100         |  |  |
|-----------|------------------|---------------|---|---|
| P100VEK10 | VEKAPLAST 4 x 10 | <b>15,290</b> | PH2   | 500   |




## PVC-KOM 10

KOMMERLING. Special head



METAL



| CODE      | SIZE                | €/100         |  |  |  |
|-----------|---------------------|---------------|---|---|---|
| P100KOM10 | KOMMERLING 5,5 x 10 | <b>18,920</b> | PH2   | 500   | 6.000   |



Available in different coatings. Ask for price and delivery time.



# WOOD SCREWS















# TEX

High-performance chipboard screw

## TEX-BT

Yellow zinc-plated. Tx recess




| CODE         | SIZE     | €/100         |  | MIN. ORDER QTY. |  |  | CODE         | SIZE     | €/100          |  | MIN. ORDER QTY. |  |  |
|--------------|----------|---------------|---|-----------------|---|---|--------------|----------|----------------|---|-----------------|---|---|
| • TEXBT30016 | 3 x 16   | <b>2,123</b>  | TX10  | 2.000           | 1.000   | 24.000  | • TEXBT60045 | 6 x 45   | <b>14,503</b>  | TX30  | 500             | 250   | 3.000   |
| • TEXBT30020 | 3 x 20   | <b>2,307</b>  | TX10  | 2.000           | 1.000   | 24.000  | • TEXBT60050 | 6 x 50   | <b>16,080</b>  | TX30  | 500             | 250   | 2.000   |
| TEXBT30025   | 3 x 25   | <b>2,847</b>  | TX10  | 2.000           | 1.000   | 24.000  | TEXBT60060   | 6 x 60   | <b>18,393</b>  | TX30  | 500             | 250   | 1.500   |
| TEXBT30030   | 3 x 30   | <b>3,247</b>  | TX10  | 2.000           | 1.000   | 12.000  | TEXBT60070   | 6 x 70   | <b>20,387</b>  | TX30  | 200             | 100   | 1.200   |
| TEXBT30035   | 3 x 35   | <b>3,533</b>  | TX10  | 2.000           | 1.000   | 12.000  | TEXBT60080   | 6 x 80   | <b>24,850</b>  | TX30  | 200             | 100   | 1.200   |
| TEXBT30040   | 3 x 40   | <b>3,937</b>  | TX10  | 2.000           | 1.000   | 6.000   | TEXBT60090   | 6 x 90   | <b>28,620</b>  | TX30  | 200             | 100   | 800   |
| • TEXBT35012 | 3,5 x 12 | <b>2,440</b>  | TX15  | 2.000           | 1.000   | 24.000  | TEXBT60100   | 6 x 100  | <b>30,450</b>  | TX30  | 200             | 100   | 800   |
| • TEXBT35016 | 3,5 x 16 | <b>2,563</b>  | TX15  | 2.000           | 1.000   | 24.000  | TEXBT60110   | 6 x 110  | <b>40,080</b>  | TX30  | 200             | 100   | 600   |
| • TEXBT35020 | 3,5 x 20 | <b>2,757</b>  | TX15  | 2.000           | 1.000   | 24.000  | TEXBT60120   | 6 x 120  | <b>45,803</b>  | TX30  | 200             | 100   | 1.200   |
| TEXBT35025   | 3,5 x 25 | <b>3,450</b>  | TX15  | 2.000           | 1.000   | 12.000  | TEXBT60130   | 6 x 130  | <b>46,180</b>  | TX30  | 200             | 100   | 600   |
| TEXBT35030   | 3,5 x 30 | <b>3,727</b>  | TX15  | 2.000           | 1.000   | 12.000  | TEXBT60140   | 6 x 140  | <b>54,697</b>  | TX30  | 200             | 100   | 600   |
| TEXBT35035   | 3,5 x 35 | <b>4,190</b>  | TX15  | 2.000           | 1.000   | 12.000  | TEXBT60150   | 6 x 150  | <b>62,163</b>  | TX30  | 200             | 100   | 600   |
| TEXBT35040   | 3,5 x 40 | <b>5,080</b>  | TX15  | 1.000           | 500   | 6.000   | TEXBT60160   | 6 x 160  | <b>77,093</b>  | TX30  | 100             | 100   | 600   |
| TEXBT35045   | 3,5 x 45 | <b>5,560</b>  | TX15  | 1.000           | 500   | 6.000   | TEXBT60180   | 6 x 180  | <b>97,273</b>  | TX30  | 100             | 100   | 800   |
| TEXBT35050   | 3,5 x 50 | <b>5,857</b>  | TX15  | 1.000           | 500   | 6.000   | TEXBT60200   | 6 x 200  | <b>125,373</b> | TX30  | 100             | 100   | 800   |
| • TEXBT40016 | 4 x 16   | <b>2,543</b>  | TX20  | 2.000           | 1.000   | 24.000  | TEXBT60220   | 6 x 220  | <b>138,157</b> | TX30  | 100             | 100   | -   |
| • TEXBT40020 | 4 x 20   | <b>2,890</b>  | TX20  | 2.000           | 1.000   | 12.000  | TEXBT60240   | 6 x 240  | <b>156,403</b> | TX30  | 100             | 100   | -   |
| • TEXBT40025 | 4 x 25   | <b>3,430</b>  | TX20  | 2.000           | 1.000   | 12.000  | TEXBT60260   | 6 x 260  | <b>185,660</b> | TX30  | 100             | 100   | -   |
| TEXBT40030   | 4 x 30   | <b>3,873</b>  | TX20  | 2.000           | 1.000   | 6.000   | TEXBT60280   | 6 x 280  | <b>206,523</b> | TX30  | 100             | 100   | -   |
| TEXBT40035   | 4 x 35   | <b>4,317</b>  | TX20  | 1.000           | 500   | 6.000   | TEXBT60300   | 6 x 300  | <b>221,347</b> | TX30  | 100             | 100   | -   |
| TEXBT40040   | 4 x 40   | <b>4,643</b>  | TX20  | 1.000           | 500   | 3.000   | TEXBT80080   | 8 x 80   | <b>49,170</b>  | TX40  | 200             | 100   | 600   |
| TEXBT40045   | 4 x 45   | <b>5,847</b>  | TX20  | 1.000           | 500   | 3.000   | TEXBT80100   | 8 x 100  | <b>52,723</b>  | TX40  | 100             | 50  | 300   |
| TEXBT40050   | 4 x 50   | <b>5,873</b>  | TX20  | 1.000           | 500   | 3.000   | TEXBT80120   | 8 x 120  | <b>78,237</b>  | TX40  | 100             | 50  | 400   |
| TEXBT40055   | 4 x 55   | <b>8,103</b>  | TX20  | 500             | 250   | 3.000   | TEXBT80140   | 8 x 140  | <b>83,687</b>  | TX40  | 50              | 50  | 400   |
| TEXBT40060   | 4 x 60   | <b>8,860</b>  | TX20  | 500             | 250   | 3.000   | TEXBT80160   | 8 x 160  | <b>122,523</b> | TX40  | 50              | 50  | 400   |
| TEXBT40070   | 4 x 70   | <b>9,927</b>  | TX20  | 500             | 250   | 1.500   | TEXBT80180   | 8 x 180  | <b>130,143</b> | TX40  | 50              | 50  | 200   |
| • TEXBT45025 | 4,5 x 25 | <b>4,547</b>  | TX20  | 2.000           | 1.000   | 12.000  | TEXBT80200   | 8 x 200  | <b>146,540</b> | TX40  | 50              | 50  | 400   |
| • TEXBT45030 | 4,5 x 30 | <b>4,673</b>  | TX20  | 1.000           | 500   | 6.000   | TEXBT80220   | 8 x 220  | <b>174,577</b> | TX40  | 50              | 50  | 400   |
| TEXBT45035   | 4,5 x 35 | <b>5,507</b>  | TX20  | 1.000           | 500   | 6.000   | TEXBT80240   | 8 x 240  | <b>191,063</b> | TX40  | 50              | 50  | 400   |
| TEXBT45040   | 4,5 x 40 | <b>5,483</b>  | TX20  | 1.000           | 500   | 3.000   | TEXBT80260   | 8 x 260  | <b>223,767</b> | TX40  | 50              | 50  | -   |
| TEXBT45045   | 4,5 x 45 | <b>6,763</b>  | TX20  | 500             | 250   | 3.000   | TEXBT80280   | 8 x 280  | <b>240,167</b> | TX40  | 50              | 50  | -   |
| TEXBT45050   | 4,5 x 50 | <b>7,010</b>  | TX20  | 500             | 250   | 3.000   | TEXBT80300   | 8 x 300  | <b>246,527</b> | TX40  | 50              | 50  | 200   |
| TEXBT45060   | 4,5 x 60 | <b>10,100</b> | TX20  | 500             | 250   | 1.500   | TEXBT80320   | 8 x 320  | <b>303,353</b> | TX40  | 50              | 50  | -   |
| TEXBT45070   | 4,5 x 70 | <b>13,207</b> | TX20  | 500             | 250   | 1.500   | TEXBT80340   | 8 x 340  | <b>338,637</b> | TX40  | 50              | 50  | -   |
| TEXBT45080   | 4,5 x 80 | <b>16,863</b> | TX20  | 200             | 100   | 1.200   | TEXBT80360   | 8 x 360  | <b>374,140</b> | TX40  | 50              | 50  | -   |
| • TEXBT50030 | 5 x 30   | <b>6,177</b>  | TX25  | 1.000           | 500   | 6.000   | TEXBT80380   | 8 x 380  | <b>431,430</b> | TX40  | 50              | 50  | -   |
| TEXBT50035   | 5 x 35   | <b>6,633</b>  | TX25  | 1.000           | 500   | 6.000   | TEXBT80400   | 8 x 400  | <b>453,130</b> | TX40  | 50              | 50  | -   |
| TEXBT50040   | 5 x 40   | <b>7,253</b>  | TX25  | 1.000           | 500   | 6.000   | TEXBT10080   | 10 x 80  | <b>81,643</b>  | TX40  | 50              | 50  | -   |
| TEXBT50045   | 5 x 45   | <b>8,643</b>  | TX25  | 500             | 250   | 3.000   | TEXBT10100   | 10 x 100 | <b>103,527</b> | TX40  | 50              | 50  | 400   |
| TEXBT50050   | 5 x 50   | <b>9,050</b>  | TX25  | 500             | 250   | 3.000   | TEXBT10120   | 10 x 120 | <b>129,780</b> | TX40  | 50              | 50  | -   |
| TEXBT50060   | 5 x 60   | <b>11,370</b> | TX25  | 500             | 250   | 2.000   | TEXBT10140   | 10 x 140 | <b>156,550</b> | TX40  | 50              | 50  | -   |
| TEXBT50070   | 5 x 70   | <b>13,207</b> | TX25  | 400             | 200   | 1.200   | TEXBT10160   | 10 x 160 | <b>182,817</b> | TX40  | 50              | 50  | -   |
| TEXBT50080   | 5 x 80   | <b>17,583</b> | TX25  | 200             | 100   | 1.200   | TEXBT10180   | 10 x 180 | <b>245,760</b> | TX40  | 50              | 50  | -   |
| TEXBT50090   | 5 x 90   | <b>18,263</b> | TX25  | 200             | 100   | 1.200   | TEXBT10200   | 10 x 200 | <b>276,093</b> | TX40  | 50              | 50  | -   |
| TEXBT50100   | 5 x 100  | <b>23,977</b> | TX25  | 200             | 100   | 1.200   | TEXBT10220   | 10 x 220 | <b>304,813</b> | TX40  | 50              | 50  | -   |
| TEXBT50120   | 5 x 120  | <b>30,777</b> | TX25  | 200             | 100   | 1.200   | TEXBT10240   | 10 x 240 | <b>336,270</b> | TX40  | 50              | 50  | -   |
| • TEXBT60040 | 6 x 40   | <b>13,460</b> | TX30  | 500             | 250   | 3.000   |              |          |                |   |                 |   |   |



• Non-assessed sizes  
• Availability: end of stock

## High-performance chipboard screw

TEX



| CODE         | SIZE     | €/100         |  | MIN. ORDER QTY. |  |  |
|--------------|----------|---------------|---|-----------------|---|---|
| • TEXZT30016 | 3 x 16   | <b>2,123</b>  | TX10  | 2.000           | 1.000   | 24.000  |
| • TEXZT30020 | 3 x 20   | <b>2,307</b>  | TX10  | 2.000           | 1.000   | 24.000  |
| • TEXZT30025 | 3 x 25   | <b>2,847</b>  | TX10  | 2.000           | 1.000   | 24.000  |
| • TEXZT30030 | 3 x 30   | <b>3,247</b>  | TX10  | 2.000           | 1.000   | 12.000  |
| • TEXZT30035 | 3 x 35   | <b>3,533</b>  | TX10  | 2.000           | 1.000   | 12.000  |
| • TEXZT30040 | 3 x 40   | <b>3,937</b>  | TX10  | 2.000           | 1.000   | 6.000   |
| • TEXZT35012 | 3,5 x 12 | <b>2,440</b>  | TX15  | 2.000           | 1.000   | 24.000  |
| • TEXZT35016 | 3,5 x 16 | <b>2,563</b>  | TX15  | 2.000           | 1.000   | 24.000  |
| • TEXZT35020 | 3,5 x 20 | <b>2,757</b>  | TX15  | 2.000           | 1.000   | 24.000  |
| • TEXZT35025 | 3,5 x 25 | <b>3,450</b>  | TX15  | 2.000           | 1.000   | 12.000  |
| • TEXZT35030 | 3,5 x 30 | <b>3,727</b>  | TX15  | 2.000           | 1.000   | 12.000  |
| • TEXZT35035 | 3,5 x 35 | <b>4,190</b>  | TX15  | 2.000           | 1.000   | 12.000  |
| • TEXZT35040 | 3,5 x 40 | <b>5,083</b>  | TX15  | 1.000           | 500   | 6.000   |
| • TEXZT35045 | 3,5 x 45 | <b>5,560</b>  | TX15  | 1.000           | 500   | 6.000   |
| • TEXZT35050 | 3,5 x 50 | <b>5,857</b>  | TX15  | 1.000           | 500   | 6.000   |
| • TEXZT40016 | 4 x 16   | <b>2,543</b>  | TX20  | 2.000           | 1.000   | 24.000  |
| • TEXZT40020 | 4 x 20   | <b>2,890</b>  | TX20  | 2.000           | 1.000   | 12.000  |
| • TEXZT40025 | 4 x 25   | <b>3,430</b>  | TX20  | 2.000           | 1.000   | 12.000  |
| • TEXZT40030 | 4 x 30   | <b>3,873</b>  | TX20  | 2.000           | 1.000   | 6.000   |
| • TEXZT40035 | 4 x 35   | <b>4,317</b>  | TX20  | 1.000           | 500   | 6.000   |
| • TEXZT40040 | 4 x 40   | <b>4,643</b>  | TX20  | 1.000           | 500   | 6.000   |
| • TEXZT40045 | 4 x 45   | <b>5,847</b>  | TX20  | 1.000           | 500   | 6.000   |
| • TEXZT40050 | 4 x 50   | <b>5,873</b>  | TX20  | 1.000           | 500   | 6.000   |
| • TEXZT40055 | 4 x 55   | <b>8,103</b>  | TX20  | 500             | 250   | 3.000   |
| • TEXZT40060 | 4 x 60   | <b>8,860</b>  | TX20  | 500             | 250   | 3.000   |
| • TEXZT40070 | 4 x 70   | <b>9,927</b>  | TX20  | 500             | 250   | 1.500   |
| • TEXZT45030 | 4,5 x 30 | <b>4,673</b>  | TX20  | 1.000           | 500   | 6.000   |
| • TEXZT45035 | 4,5 x 35 | <b>5,507</b>  | TX20  | 1.000           | 500   | 6.000   |
| • TEXZT45040 | 4,5 x 40 | <b>5,483</b>  | TX20  | 1.000           | 500   | 3.000   |
| • TEXZT45050 | 4,5 x 50 | <b>7,010</b>  | TX20  | 500             | 250   | 3.000   |
| • TEXZT45060 | 4,5 x 60 | <b>10,100</b> | TX20  | 500             | 250   | 1.500   |
| • TEXZT45070 | 4,5 x 70 | <b>13,207</b> | TX20  | 500             | 250   | 1.500   |

| CODE         | SIZE     | €/100          |  | MIN. ORDER QTY. |  |  |
|--------------|----------|----------------|---|-----------------|---|---|
| • TEXZT45080 | 4,5 x 80 | <b>16,863</b>  | TX20  | 200             | 100   | 1.200   |
| • TEXZT50030 | 5 x 30   | <b>6,177</b>   | TX25  | 1.000           | 500   | 6.000   |
| • TEXZT50035 | 5 x 35   | <b>6,633</b>   | TX25  | 1.000           | 500   | 6.000   |
| • TEXZT50040 | 5 x 40   | <b>7,253</b>   | TX25  | 1.000           | 500   | 6.000   |
| • TEXZT50045 | 5 x 45   | <b>8,643</b>   | TX25  | 500             | 250   | 3.000   |
| • TEXZT50050 | 5 x 50   | <b>9,050</b>   | TX25  | 500             | 250   | 3.000   |
| • TEXZT50060 | 5 x 60   | <b>11,370</b>  | TX25  | 500             | 250   | 2.000   |
| • TEXZT50070 | 5 x 70   | <b>13,207</b>  | TX25  | 400             | 200   | 1.200   |
| • TEXZT50080 | 5 x 80   | <b>17,583</b>  | TX25  | 200             | 100   | 1.200   |
| • TEXZT50090 | 5 x 90   | <b>18,263</b>  | TX25  | 200             | 100   | 1.200   |
| • TEXZT50100 | 5 x 100  | <b>23,977</b>  | TX25  | 200             | 100   | 1.200   |
| • TEXZT60050 | 6 x 50   | <b>16,080</b>  | TX30  | 500             | 250   | 2.000   |
| • TEXZT60060 | 6 x 60   | <b>18,393</b>  | TX30  | 500             | 250   | 1.500   |
| • TEXZT60070 | 6 x 70   | <b>20,387</b>  | TX30  | 200             | 100   | 1.200   |
| • TEXZT60080 | 6 x 80   | <b>24,850</b>  | TX30  | 200             | 100   | 1.200   |
| • TEXZT60090 | 6 x 90   | <b>28,620</b>  | TX30  | 200             | 100   | 800   |
| • TEXZT60100 | 6 x 100  | <b>30,450</b>  | TX30  | 200             | 100   | 800   |
| • TEXZT60110 | 6 x 110  | <b>40,080</b>  | TX30  | 200             | 100   | 600   |
| • TEXZT60120 | 6 x 120  | <b>45,803</b>  | TX30  | 200             | 100   | 600   |
| • TEXZT60130 | 6 x 130  | <b>46,180</b>  | TX30  | 100             | 100   | 600   |
| • TEXZT60140 | 6 x 140  | <b>54,697</b>  | TX30  | 100             | 100   | 600   |
| • TEXZT60150 | 6 x 150  | <b>62,163</b>  | TX30  | 100             | 100   | 600   |
| • TEXZT60160 | 6 x 160  | <b>77,093</b>  | TX30  | 100             | 100   | 600   |
| • TEXZT60180 | 6 x 180  | <b>97,273</b>  | TX30  | 100             | 100   | 800   |
| • TEXZT60200 | 6 x 200  | <b>125,373</b> | TX30  | 100             | 100   | 300   |
| • TEXZT60220 | 6 x 220  | <b>138,157</b> | TX30  | 100             | 100   | -   |
| • TEXZT60240 | 6 x 240  | <b>156,403</b> | TX30  | 100             | 100   | 600   |
| • TEXZT60260 | 6 x 260  | <b>185,660</b> | TX30  | 100             | 100   | -   |
| • TEXZT60280 | 6 x 280  | <b>206,523</b> | TX30  | 100             | 100   | -   |
| • TEXZT60300 | 6 x 300  | <b>221,347</b> | TX30  | 100             | 100   | -   |

• Non-assessed sizes  
• Availability: end of stock

## TEX-ZT

Zinc-plated. Tx recess



Available in different coatings. Ask for price and delivery time.



| CODE         | SIZE   | €/100         |  |  |  |
|--------------|--------|---------------|---|---|---|
| • TEXA250050 | 5 x 50 | <b>28,183</b> | TX25  | 250   | 3.000   |
| • TEXA250060 | 5 x 60 | <b>33,860</b> | TX25  | 100   | 2.400   |
| • TEXA250070 | 5 x 70 | <b>38,380</b> | TX25  | 100   | 2.400   |

 Blister

| CODE        | SIZE   | €/BAG        | PCS  | BAGS  |
|-------------|--------|--------------|---|--|
| BZTXA250050 | 5 x 50 | <b>2,302</b> | 4   | 20   |
| BZTXA250060 | 5 x 60 | <b>2,302</b> | 4   | 20   |
| BZTXA250070 | 5 x 70 | <b>2,302</b> | 2   | 20   |

 Window box

| CODE        | SIZE   | €/BOX        | PCS  | BOXES  |
|-------------|--------|--------------|---|---|
| VTEXA250050 | 5 x 50 | <b>6,596</b> | 20  | 8   |
| VTEXA250060 | 5 x 60 | <b>7,923</b> | 20  | 8   |
| VTEXA250070 | 5 x 70 | <b>8,987</b> | 20  | 8   |

## TEX-A2

A2 Stainless steel. Tx recess





# INDEX

A PERFECT FIXING

# Display

Complete screw range for wood



BLISTER



WINDOW BOX



PROFESSIONAL BOX

DIMENSIONS:  
**Width: 100 cm**  
**Width: 240 cm**









## High-performance chipboard screw

TEX

WOOD



| CODE       | SIZE    | €/100   |  |  |  |
|------------|---------|---------|---|---|---|
| TECBT60080 | 6 x 80  | 32,077  | TX30  | 200   | 1.200   |
| TECBT60100 | 6 x 100 | 37,343  | TX30  | 100   | 1.200   |
| TECBT60120 | 6 x 120 | 59,123  | TX30  | 100   | 600   |
| TECBT60140 | 6 x 140 | 70,607  | TX30  | 100   | 600   |
| TECBT60160 | 6 x 160 | 99,513  | TX30  | 100   | 400   |
| TECBT60180 | 6 x 180 | 125,570 | TX30  | 100   | -   |
| TECBT60200 | 6 x 200 | 161,840 | TX30  | 100   | -   |
| TECBT80080 | 8 x 80  | 63,463  | TX40  | 50  | 600   |
| TECBT80100 | 8 x 100 | 65,730  | TX40  | 50  | 300   |
| TECBT80120 | 8 x 120 | 100,983 | TX40  | 50  | 300   |
| TECBT80140 | 8 x 140 | 105,203 | TX40  | 50  | 300   |
| TECBT80160 | 8 x 160 | 153,313 | TX40  | 50  | 200   |
| TECBT80180 | 8 x 180 | 159,607 | TX40  | 50  | -   |
| TECBT80200 | 8 x 200 | 179,710 | TX40  | 50  | -   |
| TECBT80220 | 8 x 220 | 225,360 | TX40  | 50  | -   |
| TECBT80240 | 8 x 240 | 234,307 | TX40  | 50  | -   |

| CODE       | SIZE     | €/100   |  |  |  |
|------------|----------|---------|---|---|---|
| TECBT80260 | 8 x 260  | 274,410 | TX40  | 50  | -   |
| TECBT80280 | 8 x 280  | 294,517 | TX40  | 50  | -   |
| TECBT80300 | 8 x 300  | 314,923 | TX40  | 50  | -   |
| TECBT10100 | 10 x 100 | 126,957 | TX40  | 50  | 300   |
| TECBT10120 | 10 x 120 | 159,157 | TX40  | 50  | 300   |
| TECBT10140 | 10 x 140 | 191,973 | TX40  | 50  | 300   |
| TECBT10160 | 10 x 160 | 224,190 | TX40  | 50  | 200   |
| TECBT10180 | 10 x 180 | 301,377 | TX40  | 50  | -   |
| TECBT10200 | 10 x 200 | 338,580 | TX40  | 25  | -   |
| TECBT10220 | 10 x 220 | 373,807 | TX40  | 25  | -   |
| TECBT10240 | 10 x 240 | 412,370 | TX40  | 25  | -   |
| TECBT10260 | 10 x 260 | 458,013 | TX40  | 25  | -   |
| TECBT10280 | 10 x 280 | 513,873 | TX40  | 25  | -   |
| TECBT10300 | 10 x 300 | 562,707 | TX40  | 25  | -   |



## TEC-BT

Yellow zinc-plated width head. Tx recess



WOOD



| CODE     | SIZE | €/100   |  |  |
|----------|------|---------|---|---|
| TEXABM06 | Ø6   | 50,103  | 100   | 2.400   |
| TEXABM08 | Ø8   | 64,587  | 100   | 2.400   |
| TEXABM10 | Ø10  | 109,580 | 100   | 1.200   |

## TEX-AB

Conical washer



## INDEXwood VI

## DESIGN SOFTWARE FOR CALCULATING WOODEN STRUCTURES

This makes it possible to calculate wooden structural fixings with self-tapping screws according to Eurocode 5 (EN 1995-1-1 standard).



# TEX

## HIGH-PERFORMANCE CHIPBOARD SCREW FOR WOOD



### TEX SCREW CHARACTERISTICS • COMPARATIVE TABLE

| TECBT | TEXBT      | TEXBP      | TEXZT      | TEXZP      | Ø   | SCREW LENGTH | THREAD LENGTH | CLEANER | ULTRA-SHARP TIP | RECESS     |         |   |   |   |   |
|-------|------------|------------|------------|------------|-----|--------------|---------------|---------|-----------------|------------|---------|---|---|---|---|
| -     | -          | TEXBP25010 | -          | TEXZP25010 | 2,5 | 10           | COMPLET       | -       | -               | PZ1        |         |   |   |   |   |
| -     | -          | TEXBP25012 | -          | TEXZP25012 |     | 12           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP25016 | -          | TEXZP25016 |     | 16           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP25020 | -          | TEXZP25020 |     | 20           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP25025 | -          | TEXZP25025 |     | 25           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP30010 | -          | TEXZP30010 | 3   | 10           | COMPLET       | -       | -               | PZ1        |         |   |   |   |   |
| -     | -          | TEXBP30012 | -          | TEXZP30012 |     | 12           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP30015 | -          | TEXZP30015 |     | 15           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT30016 | TEXBP30016 | TEXZT30016 | TEXZP30016 |     | 16           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT30020 | TEXBP30020 | TEXZT30020 | TEXZP30020 |     | 20           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT30025 | TEXBP30025 | TEXZT30025 | TEXZP30025 |     | 25           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT30030 | TEXBP30030 | TEXZT30030 | TEXZP30030 |     | 30           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT30035 | TEXBP30035 | TEXZT30035 | TEXZP30035 |     | 35           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT30040 | TEXBP30040 | TEXZT30040 | TEXZP30040 |     | 40           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP30045 | -          | TEXZP30045 |     | 45           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP35010 | -          | TEXZP35010 | 3,5 | 10           | COMPLET       | -       | -               | PZ2        |         |   |   |   |   |
| -     | TEXBT35012 | TEXBP35012 | TEXZT35012 | TEXZP35012 |     | 12           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP35015 | -          | TEXZP35015 |     | 15           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35016 | TEXBP35016 | TEXZT35016 | TEXZP35016 |     | 16           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35020 | TEXBP35020 | TEXZT35020 | TEXZP35020 |     | 20           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35025 | TEXBP35025 | TEXZT35025 | TEXZP35025 |     | 25           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35030 | TEXBP35030 | TEXZT35030 | TEXZP35030 |     | 30           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35035 | TEXBP35035 | TEXZT35035 | TEXZP35035 |     | 35           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35040 | TEXBP35040 | TEXZT35040 | TEXZP35040 |     | 40           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35045 | TEXBP35045 | TEXZT35045 | TEXZP35045 |     | 45           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT35050 | TEXBP35050 | TEXZT35050 | TEXZP35050 | 50  |              |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP40012 | -          | TEXZP40012 | 4   | 12           | COMPLET       | -       | -               | TX20 / PZ2 |         |   |   |   |   |
| -     | -          | TEXBP40015 | -          | TEXZP40015 |     | 15           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40016 | TEXBP40016 | TEXZT40016 | TEXZP40016 |     | 16           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40020 | TEXBP40020 | TEXZT40020 | TEXZP40020 |     | 20           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40025 | TEXBP40025 | TEXZT40025 | TEXZP40025 |     | 25           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40030 | TEXBP40030 | TEXZT40030 | TEXZP40030 |     | 30           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40035 | TEXBP40035 | TEXZT40035 | TEXZP40035 |     | 35           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40040 | TEXBP40040 | TEXZT40040 | TEXZP40040 |     | 40           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40045 | TEXBP40045 | TEXZT40045 | TEXZP40045 |     | 45           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40050 | TEXBP40050 | TEXZT40050 | TEXZP40050 |     | 50           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40055 | TEXBP40055 | TEXZT40055 | TEXZP40055 | 55  |              |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT40060 | TEXBP40060 | TEXZT40060 | TEXZP40060 | 4,5 | 60           | 40            | SI      | -               | T20 / PZ2  |         |   |   |   |   |
| -     | TEXBT40070 | TEXBP40070 | TEXZT40070 | TEXZP40070 |     | 70           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP40080 | -          | TEXZP40080 |     | 80           |               |         |                 |            |         |   |   |   |   |
| -     | -          | TEXBP45016 | -          | TEXZP45016 |     | 16           |               |         |                 |            | COMPLET | - | - | - | - |
| -     | -          | TEXBP45020 | -          | TEXZP45020 |     | 20           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT45025 | TEXBP45025 | -          | TEXZP45025 |     | 25           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT45030 | TEXBP45030 | TEXZT45030 | TEXZP45030 |     | 30           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT45035 | TEXBP45035 | TEXZT45035 | TEXZP45035 |     | 35           |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT45040 | TEXBP45040 | TEXZT45040 | TEXZP45040 | 40  |              |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT45045 | TEXBP45045 | -          | TEXZP45045 | 45  |              |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT45050 | TEXBP45050 | TEXZT45050 | TEXZP45050 | 50  |              |               |         |                 |            |         |   |   |   |   |
| -     | TEXBT45060 | TEXBP45060 | TEXZT45060 | TEXZP45060 | 40  | 40           | SI            | -       | -               | -          |         |   |   |   |   |
| -     | TEXBT45070 | TEXBP45070 | TEXZT45070 | TEXZP45070 |     |              |               |         |                 |            | 70      |   |   |   |   |
| -     | TEXBT45080 | TEXBP45080 | TEXZT45080 | TEXZP45080 |     |              |               |         |                 |            | 80      |   |   |   |   |

| TECBT      | TEXBT      | TEXBP      | TEXZT      | TEXZP      | Ø   | SCREW LENGTH | THREAD LENGTH | CLEANER | ULTRA-SHARP TIP | RECESS     |
|------------|------------|------------|------------|------------|-----|--------------|---------------|---------|-----------------|------------|
| -          | -          | TEXBP50025 | -          | TEXZP50025 | 5   | 25           | COMPLET       | -       | SI              | TX25 / PZ2 |
| -          | TEXBT50030 | TEXBP50030 | TEXZT50030 | TEXZP50030 |     | 30           |               |         |                 |            |
| -          | TEXBT50035 | TEXBP50035 | TEXZT50035 | TEXZP50035 |     | 35           |               |         |                 |            |
| -          | TEXBT50040 | TEXBP50040 | TEXZT50040 | TEXZP50040 |     | 40           | 30            |         |                 |            |
| -          | TEXBT50045 | TEXBP50045 | TEXZT50045 | TEXZP50045 |     | 45           |               |         |                 |            |
| -          | TEXBT50050 | TEXBP50050 | TEXZT50050 | TEXZP50050 |     | 50           |               |         |                 |            |
| -          | TEXBT50060 | TEXBP50060 | TEXZT50060 | TEXZP50060 |     | 60           | 40            |         |                 |            |
| -          | TEXBT50070 | TEXBP50070 | TEXZT50070 | TEXZP50070 |     | 70           |               |         |                 |            |
| -          | TEXBT50080 | TEXBP50080 | TEXZT50080 | TEXZP50080 |     | 80           |               |         |                 |            |
| -          | TEXBT50090 | TEXBP50090 | TEXZT50090 | TEXZP50090 |     | 90           | 70            |         |                 |            |
| -          | TEXBT50100 | TEXBP50100 | TEXZT50100 | TEXZP50100 |     | 100          |               |         |                 |            |
| -          | -          | TEXBP50110 | -          | TEXZP50110 |     | 110          |               |         |                 |            |
| -          | TEXBT50120 | TEXBP50120 | -          | TEXZP50120 | 120 | 40           |               |         |                 |            |
| -          | TEXBT60040 | TEXBP60040 | -          | TEXZP60040 | 40  |              |               |         |                 |            |
| -          | TEXBT60045 | TEXBP60045 | -          | TEXZP60045 | 45  |              | 30            |         |                 |            |
| -          | TEXBT60050 | TEXBP60050 | TEXZT60050 | TEXZP60050 | 50  |              |               |         |                 |            |
| -          | TEXBT60060 | TEXBP60060 | TEXZT60060 | TEXZP60060 | 60  |              |               |         |                 |            |
| -          | TEXBT60070 | TEXBP60070 | TEXZT60070 | TEXZP60070 | 70  |              | 40            |         |                 |            |
| TECBT60080 | TEXBT60080 | TEXBP60080 | TEXZT60080 | TEXZP60080 | 80  |              |               |         |                 |            |
| -          | TEXBT60090 | TEXBP60090 | TEXZT60090 | TEXZP60090 | 90  |              |               |         |                 |            |
| TECBT60100 | TEXBT60100 | TEXBP60100 | TEXZT60100 | TEXZP60100 | 100 |              | 70            |         |                 |            |
| -          | TEXBT60110 | TEXBP60110 | TEXZT60110 | TEXZP60110 | 110 |              |               |         |                 |            |
| TECBT60120 | TEXBT60120 | TEXBP60120 | TEXZT60120 | TEXZP60120 | 120 |              |               |         |                 |            |
| -          | TEXBT60130 | -          | TEXZT60130 | -          | 130 |              |               | SI      |                 |            |
| TECBT60140 | TEXBT60140 | -          | TEXZT60140 | -          | 140 |              |               |         |                 |            |
| -          | TEXBT60150 | -          | TEXZT60150 | -          | 150 |              |               |         |                 |            |
| TECBT60160 | TEXBT60160 | -          | TEXZT60160 | -          | 160 | SI           |               |         |                 |            |
| TECBT60180 | TEXBT60180 | -          | TEXZT60180 | -          | 180 |              |               |         |                 |            |
| TECBT60200 | TEXBT60200 | -          | TEXZT60200 | -          | 200 |              |               |         |                 |            |
| -          | TEXBT60220 | -          | TEXZT60220 | -          | 220 | SI           |               |         |                 |            |
| -          | TEXBT60240 | -          | TEXZT60240 | -          | 240 |              |               |         |                 |            |
| -          | TEXBT60260 | -          | TEXZT60260 | -          | 260 |              |               |         |                 |            |
| -          | TEXBT60280 | -          | TEXZT60280 | -          | 280 | SI           |               |         |                 |            |
| -          | TEXBT60300 | -          | TEXZT60300 | -          | 300 |              |               |         |                 |            |
| TECBT80080 | TEXBT80080 | -          | -          | -          | 80  |              | 40            |         |                 |            |
| TECBT80100 | TEXBT80100 | -          | -          | -          | 100 | 70           |               |         |                 |            |
| TECBT80120 | TEXBT80120 | -          | -          | -          | 120 |              |               |         |                 |            |
| TECBT80140 | TEXBT80140 | -          | -          | -          | 140 |              | SI            |         |                 |            |
| TECBT80160 | TEXBT80160 | -          | -          | -          | 160 |              |               |         |                 |            |
| TECBT80180 | TEXBT80180 | -          | -          | -          | 180 |              |               |         |                 |            |
| TECBT80200 | TEXBT80200 | -          | -          | -          | 200 | SI           |               |         |                 |            |
| TECBT80220 | TEXBT80220 | -          | -          | -          | 220 |              |               |         |                 |            |
| TECBT80240 | TEXBT80240 | -          | -          | -          | 240 |              | 80            |         |                 |            |
| TECBT80260 | TEXBT80260 | -          | -          | -          | 260 |              |               |         |                 |            |
| TECBT80280 | TEXBT80280 | -          | -          | -          | 280 |              |               |         |                 |            |
| TECBT80300 | TEXBT80300 | -          | -          | -          | 300 | SI           |               |         |                 |            |
| -          | TEXBT80320 | -          | -          | -          | 320 |              |               |         |                 |            |
| -          | TEXBT80340 | -          | -          | -          | 340 |              |               |         |                 |            |
| -          | TEXBT80360 | -          | -          | -          | 360 | 40           |               |         |                 |            |
| -          | TEXBT80380 | -          | -          | -          | 380 |              |               |         |                 |            |
| -          | TEXBT80400 | -          | -          | -          | 400 |              |               |         |                 |            |
| -          | TEXBT10080 | -          | -          | -          | 80  | 40           |               |         |                 |            |
| TECBT10100 | TEXBT10100 | -          | -          | -          | 100 |              |               |         |                 |            |
| TECBT10120 | TEXBT10120 | -          | -          | -          | 120 |              | SI            |         |                 |            |
| TECBT10140 | TEXBT10140 | -          | -          | -          | 140 |              |               |         |                 |            |
| TECBT10160 | TEXBT10160 | -          | -          | -          | 160 |              |               |         |                 |            |
| TECBT10180 | TEXBT10180 | -          | -          | -          | 180 | SI           |               |         |                 |            |
| TECBT10200 | TEXBT10200 | -          | -          | -          | 200 |              |               |         |                 |            |
| TECBT10220 | TEXBT10220 | -          | -          | -          | 220 |              |               |         |                 |            |
| TECBT10240 | TEXBT10240 | -          | -          | -          | 240 | 80           |               |         |                 |            |
| TECBT10260 | -          | -          | -          | -          | 260 |              |               |         |                 |            |
| TECBT10280 | -          | -          | -          | -          | 280 |              |               |         |                 |            |
| TECBT10300 | -          | -          | -          | -          | 300 | SI           |               |         |                 |            |
| -          | -          | -          | -          | -          | 320 |              |               |         |                 |            |
| -          | -          | -          | -          | -          | 340 |              |               |         |                 |            |
| -          | -          | -          | -          | -          | 360 | SI           |               |         |                 |            |
| -          | -          | -          | -          | -          | 380 |              |               |         |                 |            |
| -          | -          | -          | -          | -          | 400 |              |               |         |                 |            |
| -          | -          | -          | -          | -          | 450 |              |               |         |                 |            |




# TP

## Countersunk head chipboard screw

### TP-PO B

Yellow zinc-plated. PZ recess



| CODE        | SIZE     | €/100          |  | THREAD LENGHT | MIN. ORDER QTY. |  |  |
|-------------|----------|----------------|---|---------------|-----------------|---|---|
| • TPP025010 | 2,5 x 10 | <b>1,093</b>   | PZ1   | Total         | 2.000           | 1.000   | 45.000  |
| • TPP025012 | 2,5 x 12 | <b>1,097</b>   | PZ1   | Total         | 2.000           | 1.000   | 45.000  |
| • TPP025016 | 2,5 x 16 | <b>1,227</b>   | PZ1   | Total         | 2.000           | 1.000   | 45.000  |
| TPP025020   | 2,5 x 20 | <b>1,390</b>   | PZ1   | Total         | 2.000           | 1.000   | 24.000  |
| TPP025025   | 2,5 x 25 | <b>1,493</b>   | PZ1   | Total         | 2.000           | 1.000   | 24.000  |
| • TPP030012 | 3 x 12   | <b>0,977</b>   | PZ1   | Total         | 2.000           | 1.000   | 45.000  |
| • TPP030016 | 3 x 16   | <b>1,127</b>   | PZ1   | Total         | 2.000           | 1.000   | 24.000  |
| • TPP030020 | 3 x 20   | <b>1,270</b>   | PZ1   | Total         | 2.000           | 1.000   | 24.000  |
| TPP030025   | 3 x 25   | <b>1,477</b>   | PZ1   | Total         | 2.000           | 1.000   | 12.000  |
| TPP030030   | 3 x 30   | <b>1,590</b>   | PZ1   | Total         | 2.000           | 1.000   | 12.000  |
| TPP030040   | 3 x 40   | <b>2,090</b>   | PZ1   | Total         | 2.000           | 1.000   | 6.000   |
| • TPP035016 | 3,5 x 16 | <b>1,243</b>   | PZ2   | Total         | 2.000           | 1.000   | 24.000  |
| • TPP035020 | 3,5 x 20 | <b>1,477</b>   | PZ2   | Total         | 2.000           | 1.000   | 12.000  |
| TPP035025   | 3,5 x 25 | <b>1,700</b>   | PZ2   | Total         | 2.000           | 1.000   | 12.000  |
| TPP035030   | 3,5 x 30 | <b>1,870</b>   | PZ2   | Total         | 2.000           | 1.000   | 12.000  |
| TPP035035   | 3,5 x 35 | <b>2,340</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| TPP035040   | 3,5 x 40 | <b>2,540</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| TPP035050   | 3,5 x 50 | <b>3,327</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| • TPP040016 | 4 x 16   | <b>1,600</b>   | PZ2   | Total         | 2.000           | 1.000   | 16.000  |
| • TPP040020 | 4 x 20   | <b>1,907</b>   | PZ2   | Total         | 2.000           | 1.000   | 12.000  |
| • TPP040025 | 4 x 25   | <b>2,123</b>   | PZ2   | Total         | 2.000           | 1.000   | 12.000  |
| TPP040030   | 4 x 30   | <b>2,527</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| TPP040035   | 4 x 35   | <b>2,790</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| TPP040040   | 4 x 40   | <b>3,007</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| TPP040045   | 4 x 45   | <b>3,793</b>   | PZ2   | Total         | 1.000           | 500   | 3.000   |
| TPP040050   | 4 x 50   | <b>4,143</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP040060   | 4 x 60   | <b>4,800</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP040070   | 4 x 70   | <b>5,913</b>   | PZ2   | Parcial 52    | 500             | 250   | 3.000   |
| • TPP045020 | 4,5 x 20 | <b>2,407</b>   | PZ2   | Total         | 1.000           | 500   | 12.000  |
| • TPP045025 | 4,5 x 25 | <b>2,857</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| • TPP045030 | 4,5 x 30 | <b>3,237</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| TPP045035   | 4,5 x 35 | <b>3,523</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| TPP045040   | 4,5 x 40 | <b>3,887</b>   | PZ2   | Total         | 1.000           | 500   | 3.000   |
| TPP045045   | 4,5 x 45 | <b>4,800</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP045050   | 4,5 x 50 | <b>5,113</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP045060   | 4,5 x 60 | <b>6,020</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP045070   | 4,5 x 70 | <b>7,367</b>   | PZ2   | Parcial 52    | 500             | 250   | 1.500   |
| TPP045080   | 4,5 x 80 | <b>9,193</b>   | PZ2   | Parcial 52    | 200             | 100   | 1.200   |
| • TPP050020 | 5 x 20   | <b>2,963</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| • TPP050025 | 5 x 25   | <b>3,530</b>   | PZ2   | Total         | 1.000           | 500   | 6.000   |
| • TPP050030 | 5 x 30   | <b>3,993</b>   | PZ2   | Total         | 500             | 250   | 6.000   |
| TPP050035   | 5 x 35   | <b>4,507</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP050040   | 5 x 40   | <b>4,947</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP050045   | 5 x 45   | <b>5,717</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP050050   | 5 x 50   | <b>6,037</b>   | PZ2   | Total         | 500             | 250   | 3.000   |
| TPP050060   | 5 x 60   | <b>7,337</b>   | PZ2   | Total         | 500             | 250   | 1.500   |
| TPP050070   | 5 x 70   | <b>9,080</b>   | PZ2   | Parcial 52    | 200             | 100   | 1.200   |
| TPP050080   | 5 x 80   | <b>10,360</b>  | PZ2   | Parcial 52    | 200             | 100   | 1.200   |
| TPP050090   | 5 x 90   | <b>12,307</b>  | PZ2   | Parcial 60    | 200             | 100   | 1.200   |
| TPP050100   | 5 x 100  | <b>13,287</b>  | PZ2   | Parcial 60    | 200             | 100   | 1.200   |
| TPP050120   | 5 x 120  | <b>20,040</b>  | PZ2   | Parcial 75    | 200             | 100   | 1.200   |
| • TPP060040 | 6 x 40   | <b>7,487</b>   | PZ3   | Total         | 500             | 250   | 3.000   |
| TPP060050   | 6 x 50   | <b>8,627</b>   | PZ3   | Total         | 500             | 250   | 1.500   |
| TPP060060   | 6 x 60   | <b>10,040</b>  | PZ3   | Total         | 500             | 250   | 1.500   |
| TPP060070   | 6 x 70   | <b>13,013</b>  | PZ3   | Parcial 52    | 200             | 100   | 1.200   |
| TPP060080   | 6 x 80   | <b>14,767</b>  | PZ3   | Parcial 52    | 200             | 100   | 1.200   |
| TPP060090   | 6 x 90   | <b>16,817</b>  | PZ3   | Parcial 60    | 200             | 100   | 1.200   |
| TPP060100   | 6 x 100  | <b>19,127</b>  | PZ3   | Parcial 60    | 100             | 100   | 1.200   |
| TPP060110   | 6 x 110  | <b>22,617</b>  | PZ3   | Parcial 70    | 100             | 100   | 600   |
| TPP060120   | 6 x 120  | <b>24,050</b>  | PZ3   | Parcial 70/75 | 100             | 100   | 600   |
| TPP060130   | 6 x 130  | <b>28,207</b>  | PZ3   | Parcial 70/75 | 100             | 100   | 600   |
| TPP060140   | 6 x 140  | <b>31,743</b>  | PZ3   | Parcial 70/75 | 100             | 100   | 600   |
| TPP060150   | 6 x 150  | <b>34,333</b>  | PZ3   | Parcial 70/75 | 100             | 100   | 600   |
| TPP060160   | 6 x 160  | <b>38,243</b>  | PZ3   | Parcial 70/75 | 100             | 100   | 400   |
| TPP060180   | 6 x 180  | <b>55,940</b>  | PZ3   | Parcial 70/75 | 100             | 100   | 300   |
| TPP060200   | 6 x 200  | <b>72,827</b>  | PZ3   | Parcial 70/75 | 100             | 100   | 300   |
| TPP060220   | 6 x 220  | <b>105,200</b> | PZ3   | Parcial 70/75 | 100             | 100   | 300   |

• Non-assessed sizes

## Countersunk head chipboard screw

TP



Blister

| CODE        | SIZE     | €/BAG | PCS<br>B | BAGS |
|-------------|----------|-------|----------|------|
| BZTPPO25016 | 2,5 x 16 | 1,820 | 40       | 20   |
| BZTPPO25020 | 2,5 x 20 | 1,820 | 40       | 20   |
| BZTPPO25025 | 2,5 x 25 | 1,820 | 40       | 20   |
| BZTPPO30016 | 3 x 16   | 1,820 | 40       | 20   |
| BZTPPO30020 | 3 x 20   | 1,820 | 40       | 20   |
| BZTPPO30025 | 3 x 25   | 1,820 | 40       | 20   |
| BZTPPO30030 | 3 x 30   | 1,820 | 40       | 20   |
| BZTPPO35016 | 3,5 x 16 | 1,820 | 40       | 20   |
| BZTPPO35020 | 3,5 x 20 | 1,820 | 40       | 20   |
| BZTPPO35025 | 3,5 x 25 | 1,820 | 40       | 20   |
| BZTPPO35030 | 3,5 x 30 | 1,820 | 40       | 20   |
| BZTPPO35035 | 3,5 x 35 | 1,820 | 20       | 20   |
| BZTPPO35040 | 3,5 x 40 | 1,820 | 20       | 20   |
| BZTPPO35050 | 3,5 x 50 | 1,820 | 20       | 20   |
| BZTPPO40016 | 4 x 16   | 1,820 | 40       | 20   |
| BZTPPO40020 | 4 x 20   | 1,820 | 40       | 20   |
| BZTPPO40025 | 4 x 25   | 1,820 | 40       | 20   |
| BZTPPO40030 | 4 x 30   | 1,820 | 20       | 20   |
| BZTPPO40035 | 4 x 35   | 1,820 | 20       | 20   |
| BZTPPO40040 | 4 x 40   | 1,820 | 20       | 20   |
| BZTPPO40045 | 4 x 45   | 1,820 | 20       | 20   |
| BZTPPO40050 | 4 x 50   | 1,820 | 10       | 20   |
| BZTPPO40060 | 4 x 60   | 1,820 | 10       | 20   |
| BZTPPO45030 | 4,5 x 30 | 1,820 | 20       | 20   |
| BZTPPO45035 | 4,5 x 35 | 1,820 | 20       | 20   |
| BZTPPO45040 | 4,5 x 40 | 1,820 | 20       | 20   |
| BZTPPO45045 | 4,5 x 45 | 1,820 | 10       | 20   |
| BZTPPO45050 | 4,5 x 50 | 1,820 | 10       | 20   |
| BZTPPO45060 | 4,5 x 60 | 1,820 | 10       | 20   |
| BZTPPO45070 | 4,5 x 70 | 1,820 | 10       | 20   |
| BZTPPO50030 | 5 x 30   | 1,820 | 10       | 20   |
| BZTPPO50035 | 5 x 35   | 1,820 | 10       | 20   |
| BZTPPO50040 | 5 x 40   | 1,820 | 10       | 20   |
| BZTPPO50050 | 5 x 50   | 1,820 | 10       | 20   |
| BZTPPO50060 | 5 x 60   | 1,820 | 10       | 20   |
| BZTPPO50070 | 5 x 70   | 1,820 | 4        | 20   |
| BZTPPO50080 | 5 x 80   | 1,820 | 4        | 20   |
| BZTPPO50100 | 5 x 100  | 1,820 | 4        | 20   |
| BZTPPO60040 | 6 x 40   | 1,820 | 10       | 20   |
| BZTPPO60050 | 6 x 50   | 1,820 | 10       | 20   |
| BZTPPO60060 | 6 x 60   | 1,820 | 10       | 20   |
| BZTPPO60070 | 6 x 70   | 1,820 | 4        | 20   |
| BZTPPO60080 | 6 x 80   | 1,820 | 4        | 20   |
| BZTPPO60090 | 6 x 90   | 1,820 | 4        | 20   |
| BZTPPO60100 | 6 x 100  | 1,820 | 4        | 20   |



Window box

| CODE       | SIZE     | €/BOX | PCS<br>B | BOXES |
|------------|----------|-------|----------|-------|
| VTPPO30016 | 3 x 16   | 3,974 | 250      | 8     |
| VTPPO30020 | 3 x 20   | 4,437 | 250      | 8     |
| VTPPO30025 | 3 x 25   | 5,076 | 250      | 8     |
| VTPPO30030 | 3 x 30   | 5,336 | 250      | 8     |
| VTPPO30040 | 3 x 40   | 6,776 | 250      | 8     |
| VTPPO35016 | 3,5 x 16 | 4,272 | 250      | 8     |
| VTPPO35020 | 3,5 x 20 | 4,962 | 250      | 8     |
| VTPPO35025 | 3,5 x 25 | 5,655 | 250      | 8     |
| VTPPO35030 | 3,5 x 30 | 6,064 | 250      | 8     |
| VTPPO35035 | 3,5 x 35 | 4,956 | 150      | 8     |
| VTPPO35040 | 3,5 x 40 | 5,247 | 150      | 8     |
| VTPPO35050 | 3,5 x 50 | 4,741 | 100      | 8     |
| VTPPO40016 | 4 x 16   | 5,541 | 250      | 8     |
| VTPPO40020 | 4 x 20   | 6,470 | 250      | 8     |
| VTPPO40025 | 4 x 25   | 7,147 | 250      | 8     |
| VTPPO40030 | 4 x 30   | 5,738 | 175      | 8     |
| VTPPO40035 | 4 x 35   | 5,548 | 150      | 8     |
| VTPPO40040 | 4 x 40   | 6,087 | 150      | 8     |
| VTPPO40045 | 4 x 45   | 7,432 | 150      | 8     |
| VTPPO40050 | 4 x 50   | 5,593 | 100      | 8     |
| VTPPO40060 | 4 x 60   | 6,527 | 100      | 8     |
| VTPPO45030 | 4,5 x 30 | 6,422 | 150      | 8     |
| VTPPO45035 | 4,5 x 35 | 7,037 | 150      | 8     |
| VTPPO45040 | 4,5 x 40 | 7,565 | 150      | 8     |
| VTPPO45045 | 4,5 x 45 | 5,719 | 90       | 8     |
| VTPPO45050 | 4,5 x 50 | 6,957 | 100      | 8     |
| VTPPO45060 | 4,5 x 60 | 6,381 | 80       | 8     |
| VTPPO45070 | 4,5 x 70 | 5,890 | 60       | 8     |
| VTPPO50030 | 5 x 30   | 5,377 | 100      | 8     |
| VTPPO50035 | 5 x 35   | 5,852 | 100      | 8     |
| VTPPO50040 | 5 x 40   | 6,422 | 100      | 8     |
| VTPPO50050 | 5 x 50   | 7,838 | 100      | 8     |
| VTPPO50060 | 5 x 60   | 7,771 | 80       | 8     |
| VTPPO50070 | 5 x 70   | 4,323 | 35       | 8     |
| VTPPO50080 | 5 x 80   | 4,225 | 30       | 8     |
| VTPPO50090 | 5 x 90   | 4,914 | 30       | 8     |
| VTPPO60040 | 6 x 40   | 9,712 | 100      | 8     |
| VTPPO60050 | 6 x 50   | 8,956 | 80       | 8     |
| VTPPO60060 | 6 x 60   | 7,977 | 60       | 8     |
| VTPPO60070 | 6 x 70   | 5,121 | 30       | 8     |
| VTPPO60080 | 6 x 80   | 5,574 | 30       | 8     |

TP-PO B

Yellow zinc-plated. PZ recess





**TP-PO Z**

Zinc-plated. PZ recess



Available in different coatings. Ask for price and delivery time.

| CODE         | SIZE     | €/100         |     | THREAD LENGHT | MIN. ORDER QTY. |       |        |
|--------------|----------|---------------|-----|---------------|-----------------|-------|--------|
| • TPPOZ25010 | 2,5 x 10 | <b>1,093</b>  | PZ1 | Total         | 2.000           | 1.000 | 45.000 |
| • TPPOZ25012 | 2,5 x 12 | <b>1,097</b>  | PZ1 | Total         | 2.000           | 1.000 | 45.000 |
| • TPPOZ25016 | 2,5 x 16 | <b>1,227</b>  | PZ1 | Total         | 2.000           | 1.000 | 45.000 |
| TPPOZ25020   | 2,5 x 20 | <b>1,390</b>  | PZ1 | Total         | 2.000           | 1.000 | 24.000 |
| TPPOZ25025   | 2,5 x 25 | <b>1,493</b>  | PZ1 | Total         | 2.000           | 1.000 | 24.000 |
| • TPPOZ30012 | 3 x 12   | <b>0,977</b>  | PZ1 | Total         | 2.000           | 1.000 | 45.000 |
| • TPPOZ30016 | 3 x 16   | <b>1,127</b>  | PZ1 | Total         | 2.000           | 1.000 | 24.000 |
| • TPPOZ30020 | 3 x 20   | <b>1,270</b>  | PZ1 | Total         | 2.000           | 1.000 | 24.000 |
| TPPOZ30025   | 3 x 25   | <b>1,477</b>  | PZ1 | Total         | 2.000           | 1.000 | 12.000 |
| TPPOZ30030   | 3 x 30   | <b>1,590</b>  | PZ1 | Total         | 2.000           | 1.000 | 12.000 |
| TPPOZ30040   | 3 x 40   | <b>2,090</b>  | PZ1 | Total         | 2.000           | 1.000 | 6.000  |
| • TPPOZ35016 | 3,5 x 16 | <b>1,243</b>  | PZ2 | Total         | 2.000           | 1.000 | 24.000 |
| • TPPOZ35020 | 3,5 x 20 | <b>1,477</b>  | PZ2 | Total         | 2.000           | 1.000 | 12.000 |
| TPPOZ35025   | 3,5 x 25 | <b>1,700</b>  | PZ2 | Total         | 2.000           | 1.000 | 12.000 |
| TPPOZ35030   | 3,5 x 30 | <b>1,870</b>  | PZ2 | Total         | 2.000           | 1.000 | 12.000 |
| TPPOZ35035   | 3,5 x 35 | <b>2,340</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| TPPOZ35040   | 3,5 x 40 | <b>2,540</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| TPPOZ35050   | 3,5 x 50 | <b>3,327</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| • TPPOZ40016 | 4 x 16   | <b>1,600</b>  | PZ2 | Total         | 2.000           | 1.000 | 16.000 |
| • TPPOZ40020 | 4 x 20   | <b>1,907</b>  | PZ2 | Total         | 2.000           | 1.000 | 12.000 |
| • TPPOZ40025 | 4 x 25   | <b>2,123</b>  | PZ2 | Total         | 2.000           | 1.000 | 12.000 |
| TPPOZ40030   | 4 x 30   | <b>2,527</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| TPPOZ40035   | 4 x 35   | <b>2,790</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| TPPOZ40040   | 4 x 40   | <b>3,007</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| TPPOZ40045   | 4 x 45   | <b>3,793</b>  | PZ2 | Total         | 1.000           | 500   | 3.000  |
| TPPOZ40050   | 4 x 50   | <b>4,143</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ40060   | 4 x 60   | <b>4,800</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ40070   | 4 x 70   | <b>5,913</b>  | PZ2 | Parcial 52    | 500             | 250   | 1.500  |
| • TPPOZ45020 | 4,5 x 20 | <b>2,407</b>  | PZ2 | Total         | 1.000           | 500   | 12.000 |
| • TPPOZ45025 | 4,5 x 25 | <b>2,857</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| • TPPOZ45030 | 4,5 x 30 | <b>3,237</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| TPPOZ45035   | 4,5 x 35 | <b>3,523</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| TPPOZ45040   | 4,5 x 40 | <b>3,887</b>  | PZ2 | Total         | 1.000           | 500   | 3.000  |
| TPPOZ45045   | 4,5 x 45 | <b>4,800</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ45050   | 4,5 x 50 | <b>5,113</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ45060   | 4,5 x 60 | <b>6,020</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ45070   | 4,5 x 70 | <b>7,367</b>  | PZ2 | Parcial 52    | 500             | 250   | 1.500  |
| TPPOZ45080   | 4,5 x 80 | <b>9,193</b>  | PZ2 | Parcial 52    | 200             | 100   | 1.200  |
| • TPPOZ50020 | 5 x 20   | <b>2,963</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| • TPPOZ50025 | 5 x 25   | <b>3,530</b>  | PZ2 | Total         | 1.000           | 500   | 6.000  |
| • TPPOZ50030 | 5 x 30   | <b>3,993</b>  | PZ2 | Total         | 500             | 250   | 6.000  |
| TPPOZ50035   | 5 x 35   | <b>4,507</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ50040   | 5 x 40   | <b>4,947</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ50045   | 5 x 45   | <b>5,717</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ50050   | 5 x 50   | <b>6,037</b>  | PZ2 | Total         | 500             | 250   | 3.000  |
| TPPOZ50060   | 5 x 60   | <b>7,337</b>  | PZ2 | Total         | 500             | 250   | 1.500  |
| TPPOZ50070   | 5 x 70   | <b>9,080</b>  | PZ2 | Parcial 52    | 200             | 100   | 1.200  |
| TPPOZ50080   | 5 x 80   | <b>10,360</b> | PZ2 | Parcial 52    | 200             | 100   | 1.200  |
| TPPOZ50090   | 5 x 90   | <b>12,307</b> | PZ2 | Parcial 60    | 200             | 100   | 1.200  |
| TPPOZ50100   | 5 x 100  | <b>13,287</b> | PZ2 | Parcial 60    | 200             | 100   | 1.200  |
| TPPOZ50120   | 5 x 120  | <b>20,040</b> | PZ2 | Parcial 75    | 200             | 100   | 1.200  |
| • TPPOZ60040 | 6 x 40   | <b>7,487</b>  | PZ3 | Total         | 500             | 250   | 3.000  |
| TPPOZ60050   | 6 x 50   | <b>8,627</b>  | PZ3 | Total         | 500             | 250   | 1.500  |
| TPPOZ60060   | 6 x 60   | <b>10,040</b> | PZ3 | Total         | 500             | 250   | 1.500  |
| TPPOZ60070   | 6 x 70   | <b>13,013</b> | PZ3 | Parcial 52    | 200             | 100   | 1.200  |
| TPPOZ60080   | 6 x 80   | <b>14,767</b> | PZ3 | Parcial 52    | 200             | 100   | 1.200  |
| TPPOZ60090   | 6 x 90   | <b>16,817</b> | PZ3 | Parcial 60    | 200             | 100   | 1.200  |
| TPPOZ60100   | 6 x 100  | <b>19,127</b> | PZ3 | Parcial 60    | 100             | 100   | 1.200  |
| TPPOZ60110   | 6 x 110  | <b>22,617</b> | PZ3 | Parcial 70    | 100             | 100   | 600    |

• Non-assessed sizes

## TP-PO Z

Zinc-plated. PZ recess

 Window box

| CODE       | SIZE     | €/BOX | PCS | BOXES |
|------------|----------|-------|-----|-------|
| VTPOZ30025 | 3 x 25   | 5,076 | 250 | 8     |
| VTPOZ30030 | 3 x 30   | 5,336 | 250 | 8     |
| VTPOZ35016 | 3,5 x 16 | 4,272 | 250 | 8     |
| VTPOZ35020 | 3,5 x 20 | 4,962 | 250 | 8     |
| VTPOZ35025 | 3,5 x 25 | 5,655 | 250 | 8     |
| VTPOZ35030 | 3,5 x 30 | 6,064 | 250 | 8     |
| VTPOZ35035 | 3,5 x 35 | 4,956 | 150 | 8     |
| VTPOZ35040 | 3,5 x 40 | 5,247 | 150 | 8     |
| VTPOZ35050 | 3,5 x 50 | 4,741 | 100 | 8     |
| VTPOZ40016 | 4 x 16   | 5,541 | 250 | 8     |
| VTPOZ40020 | 4 x 20   | 6,470 | 250 | 8     |
| VTPOZ40025 | 4 x 25   | 7,147 | 250 | 8     |
| VTPOZ40030 | 4 x 30   | 5,738 | 175 | 8     |
| VTPOZ40035 | 4 x 35   | 5,548 | 150 | 8     |
| VTPOZ40040 | 4 x 40   | 6,087 | 150 | 8     |
| VTPOZ40045 | 4 x 45   | 7,432 | 150 | 8     |
| VTPOZ40050 | 4 x 50   | 5,593 | 100 | 8     |
| VTPOZ40060 | 4 x 60   | 6,527 | 100 | 8     |
| VTPOZ45030 | 4,5 x 30 | 6,422 | 150 | 8     |
| VTPOZ45035 | 4,5 x 35 | 7,037 | 150 | 8     |
| VTPOZ45040 | 4,5 x 40 | 7,768 | 150 | 8     |
| VTPOZ45045 | 4,5 x 45 | 5,719 | 90  | 8     |
| VTPOZ45050 | 4,5 x 50 | 6,957 | 100 | 8     |
| VTPOZ45060 | 4,5 x 60 | 6,381 | 80  | 8     |
| VTPOZ45070 | 4,5 x 70 | 5,890 | 60  | 8     |
| VTPOZ50030 | 5 x 30   | 5,377 | 100 | 8     |
| VTPOZ50035 | 5 x 35   | 5,852 | 100 | 8     |
| VTPOZ50040 | 5 x 40   | 6,422 | 100 | 8     |
| VTPOZ50050 | 5 x 50   | 7,838 | 100 | 8     |
| VTPOZ50060 | 5 x 60   | 7,771 | 80  | 8     |
| VTPOZ50070 | 5 x 70   | 4,323 | 35  | 8     |
| VTPOZ50080 | 5 x 80   | 4,225 | 30  | 8     |
| VTPOZ50090 | 5 x 90   | 4,914 | 30  | 8     |
| VTPOZ60060 | 6 x 60   | 7,977 | 60  | 8     |
| VTPOZ60070 | 6 x 70   | 5,121 | 30  | 8     |
| VTPOZ60080 | 6 x 80   | 5,574 | 30  | 8     |



Available in different coatings. Ask for price and delivery time.

# TP




## Countersunk head chipboard screw




### TP-TO

Yellow zinc-plated. TX recess





Available in different coatings. Ask for price and delivery time.

| CODE        | SIZE     | €/100        |  | MIN. ORDER QTY. |  |  |
|-------------|----------|--------------|---|-----------------|---|---|
| TPTO30025   | 3 x 25   | <b>1,910</b> | TX10  | 2.000           | 1.000   | 12.000  |
| TPTO30030   | 3 x 30   | <b>2,207</b> | TX10  | 2.000           | 1.000   | 12.000  |
| • TPTO35015 | 3,5 x 15 | <b>1,620</b> | TX15  | 2.000           | 1.000   | 24.000  |
| • TPTO35017 | 3,5 x 17 | <b>1,690</b> | TX15  | 2.000           | 1.000   | 24.000  |
| • TPTO35020 | 3,5 x 20 | <b>1,967</b> | TX15  | 2.000           | 1.000   | 12.000  |
| TPTO35025   | 3,5 x 25 | <b>2,313</b> | TX15  | 2.000           | 1.000   | 12.000  |
| TPTO35030   | 3,5 x 30 | <b>2,523</b> | TX15  | 2.000           | 1.000   | 12.000  |
| TPTO35040   | 3,5 x 40 | <b>3,497</b> | TX15  | 1.000           | 500   | 6.000   |
| TPTO35050   | 3,5 x 50 | <b>4,247</b> | TX15  | 1.000           | 500   | 3.000   |
| • TPTO40020 | 4 x 20   | <b>2,637</b> | TX20  | 2.000           | 1.000   | 12.000  |
| • TPTO40025 | 4 x 25   | <b>3,047</b> | TX20  | 2.000           | 1.000   | 12.000  |
| TPTO40030   | 4 x 30   | <b>3,660</b> | TX20  | 1.000           | 500   | 6.000   |
| TPTO40035   | 4 x 35   | <b>4,160</b> | TX20  | 1.000           | 500   | 6.000   |
| TPTO40040   | 4 x 40   | <b>4,503</b> | TX20  | 1.000           | 500   | 6.000   |
| TPTO40045   | 4 x 45   | <b>5,073</b> | TX20  | 1.000           | 500   | 6.000   |
| TPTO40050   | 4 x 50   | <b>5,787</b> | TX20  | 500             | 250   | 3.000   |
| TPTO40060   | 4 x 60   | <b>6,080</b> | TX20  | 500             | 250   | 3.000   |
| TPTO40070   | 4 x 70   | <b>7,963</b> | TX20  | 500             | 250   | 1.500   |
| • TPTO45030 | 4,5 x 30 | <b>4,413</b> | TX20  | 1.000           | 500   | 6.000   |
| TPTO45035   | 4,5 x 35 | <b>4,777</b> | TX20  | 1.000           | 500   | 6.000   |
| TPTO45040   | 4,5 x 40 | <b>5,513</b> | TX20  | 1.000           | 500   | 6.000   |
| TPTO45045   | 4,5 x 45 | <b>6,463</b> | TX20  | 500             | 250   | 3.000   |
| TPTO45050   | 4,5 x 50 | <b>7,263</b> | TX20  | 500             | 250   | 3.000   |
| TPTO45060   | 4,5 x 60 | <b>8,337</b> | TX20  | 500             | 250   | 3.000   |
| TPTO45070   | 4,5 x 70 | <b>9,797</b> | TX20  | 500             | 250   | 1.500   |
| • TPTO50030 | 5 x 30   | <b>5,683</b> | TX25  | 500             | 250   | 6.000   |

| CODE      | SIZE    | €/100          |  | MIN. ORDER QTY. |  |  |
|-----------|---------|----------------|---|-----------------|---|---|
| TPTO50035 | 5 x 35  | <b>6,197</b>   | TX25  | 500             | 250   | 6.000   |
| TPTO50040 | 5 x 40  | <b>6,957</b>   | TX25  | 500             | 250   | 3.000   |
| TPTO50045 | 5 x 45  | <b>7,883</b>   | TX25  | 500             | 250   | 3.000   |
| TPTO50050 | 5 x 50  | <b>8,443</b>   | TX25  | 500             | 250   | 3.000   |
| TPTO50060 | 5 x 60  | <b>9,683</b>   | TX25  | 500             | 250   | 1.500   |
| TPTO50070 | 5 x 70  | <b>12,613</b>  | TX25  | 200             | 100   | 1.200   |
| TPTO50080 | 5 x 80  | <b>14,573</b>  | TX25  | 200             | 100   | 1.200   |
| TPTO50090 | 5 x 90  | <b>15,923</b>  | TX25  | 200             | 100   | 1.200   |
| TPTO50100 | 5 x 100 | <b>17,280</b>  | TX25  | 200             | 100   | 1.200   |
| TPTO50120 | 5 x 120 | <b>23,923</b>  | TX25  | 200             | 100   | 1.200   |
| TPTO60060 | 6 x 60  | <b>13,477</b>  | TX30  | 500             | 250   | 1.500   |
| TPTO60070 | 6 x 70  | <b>16,120</b>  | TX30  | 200             | 100   | 1.200   |
| TPTO60080 | 6 x 80  | <b>19,863</b>  | TX30  | 200             | 100   | 1.200   |
| TPTO60090 | 6 x 90  | <b>24,323</b>  | TX30  | 200             | 100   | 1.200   |
| TPTO60100 | 6 x 100 | <b>26,177</b>  | TX30  | 100             | 100   | 1.200   |
| TPTO60110 | 6 x 110 | <b>30,517</b>  | TX30  | 100             | 100   | 600   |
| TPTO60120 | 6 x 120 | <b>32,820</b>  | TX30  | 100             | 100   | 600   |
| TPTO60130 | 6 x 130 | <b>39,117</b>  | TX30  | 100             | 100   | 600   |
| TPTO60140 | 6 x 140 | <b>43,397</b>  | TX30  | 100             | 100   | 600   |
| TPTO60150 | 6 x 150 | <b>49,930</b>  | TX30  | 100             | 100   | 600   |
| TPTO60160 | 6 x 160 | <b>55,290</b>  | TX30  | 100             | 100   | 400   |
| TPTO60180 | 6 x 180 | <b>74,090</b>  | TX30  | 100             | 100   | 300   |
| TPTO60200 | 6 x 200 | <b>88,940</b>  | TX30  | 100             | 100   | 300   |
| TPTO60220 | 6 x 220 | <b>118,837</b> | TX30  | 100             | 100   | 300   |

• Non-assessed sizes

### Window box

| CODE       | SIZE     | €/BOX         | PCS  | BOXES  |
|------------|----------|---------------|---|---|
| VTPTO30025 | 3 x 25   | <b>5,602</b>  | 250   | 8   |
| VTPTO30030 | 3 x 30   | <b>6,381</b>  | 250   | 8   |
| VTPTO35015 | 3,5 x 15 | <b>5,073</b>  | 250   | 8   |
| VTPTO35020 | 3,5 x 20 | <b>6,064</b>  | 250   | 8   |
| VTPTO35025 | 3,5 x 25 | <b>6,821</b>  | 250   | 8   |
| VTPTO35030 | 3,5 x 30 | <b>7,597</b>  | 250   | 8   |
| VTPTO35040 | 3,5 x 40 | <b>6,305</b>  | 150   | 8   |
| VTPTO35050 | 3,5 x 50 | <b>5,408</b>  | 100   | 8   |
| VTPTO40020 | 4 x 20   | <b>7,939</b>  | 250   | 8   |
| VTPTO40025 | 4 x 25   | <b>9,443</b>  | 250   | 8   |
| VTPTO40030 | 4 x 30   | <b>7,897</b>  | 175   | 8   |
| VTPTO40035 | 4 x 35   | <b>7,524</b>  | 150   | 8   |
| VTPTO40040 | 4 x 40   | <b>8,132</b>  | 150   | 8   |
| VTPTO40045 | 4 x 45   | <b>9,146</b>  | 150   | 8   |
| VTPTO40050 | 4 x 50   | <b>7,160</b>  | 100   | 8   |
| VTPTO40060 | 4 x 60   | <b>7,517</b>  | 100   | 8   |
| VTPTO45030 | 4,5 x 30 | <b>7,816</b>  | 150   | 8   |
| VTPTO45035 | 4,5 x 35 | <b>8,629</b>  | 150   | 8   |
| VTPTO45040 | 4,5 x 40 | <b>9,966</b>  | 150   | 8   |
| VTPTO45045 | 4,5 x 45 | <b>7,004</b>  | 90  | 8   |
| VTPTO45050 | 4,5 x 50 | <b>8,733</b>  | 100   | 8   |
| VTPTO45060 | 4,5 x 60 | <b>8,025</b>  | 80  | 8   |
| VTPTO45070 | 4,5 x 70 | <b>7,071</b>  | 60  | 8   |
| VTPTO50030 | 5 x 30   | <b>6,840</b>  | 100   | 8   |
| VTPTO50035 | 5 x 35   | <b>7,654</b>  | 100   | 8   |
| VTPTO50040 | 5 x 40   | <b>9,006</b>  | 100   | 8   |
| VTPTO50050 | 5 x 50   | <b>10,168</b> | 100   | 8   |
| VTPTO50060 | 5 x 60   | <b>9,326</b>  | 80  | 8   |
| VTPTO50070 | 5 x 70   | <b>5,456</b>  | 35  | 8   |
| VTPTO50080 | 5 x 80   | <b>5,403</b>  | 30  | 8   |
| VTPTO50090 | 5 x 90   | <b>5,902</b>  | 30  | 8   |
| VTPTO60060 | 6 x 60   | <b>9,735</b>  | 60  | 8   |
| VTPTO60070 | 6 x 70   | <b>5,976</b>  | 30  | 8   |
| VTPTO60080 | 6 x 80   | <b>7,365</b>  | 30  | 8   |




## Countersunk head chipboard screw

TP

STAINLESS  
STEEL

TP-A2

Stainless-steel A2. PZ recess

| CODE      | SIZE     | €/100         |  |  |  |
|-----------|----------|---------------|---|---|---|
| TPA230016 | 3 x 16   | <b>4,947</b>  | PZ1   | 200   | 9.000   |
| TPA230025 | 3 x 25   | <b>6,323</b>  | PZ1   | 200   | 9.000   |
| TPA235020 | 3,5 x 20 | <b>8,347</b>  | PZ2   | 200   | 9.000   |
| TPA235025 | 3,5 x 25 | <b>9,013</b>  | PZ2   | 200   | 9.000   |
| TPA235030 | 3,5 x 30 | <b>11,233</b> | PZ2   | 200   | 9.000   |
| TPA235040 | 3,5 x 40 | <b>15,967</b> | PZ2   | 200   | 4.800   |
| TPA240030 | 4 x 30   | <b>13,653</b> | PZ2   | 200   | 4.800   |
| TPA240040 | 4 x 40   | <b>16,120</b> | PZ2   | 200   | 4.800   |
| TPA240050 | 4 x 50   | <b>25,303</b> | PZ2   | 200   | 4.800   |
| TPA245030 | 4,5 x 30 | <b>16,033</b> | PZ2   | 200   | 4.800   |
| TPA245050 | 4,5 x 50 | <b>25,610</b> | PZ2   | 200   | 2.400   |
| TPA250050 | 5 x 50   | <b>32,297</b> | PZ2   | 200   | 2.400   |
| TPA250070 | 5 x 70   | <b>44,013</b> | PZ2   | 200   | 2.400   |






## Panhead steel chipboard screw. Yellow zinc-plated. PZ recess

TR-PO

WOOD



| CODE      | SIZE     | €/100         |  |  |  |
|-----------|----------|---------------|---|---|---|
| TRPO30016 | 3 x 16   | <b>1,927</b>  | PZ1   | 1.000   | 24.000  |
| TRPO30020 | 3 x 20   | <b>2,177</b>  | PZ1   | 1.000   | 12.000  |
| TRPO35016 | 3,5 x 16 | <b>2,537</b>  | PZ2   | 1.000   | 24.000  |
| TRPO35020 | 3,5 x 20 | <b>2,927</b>  | PZ2   | 1.000   | 12.000  |
| TRPO35025 | 3,5 x 25 | <b>3,143</b>  | PZ2   | 1.000   | 12.000  |
| TRPO35030 | 3,5 x 30 | <b>3,467</b>  | PZ2   | 1.000   | 12.000  |
| TRPO35035 | 3,5 x 35 | <b>3,640</b>  | PZ2   | 500   | 6.000   |
| TRPO40016 | 4 x 16   | <b>3,217</b>  | PZ2   | 1.000   | 12.000  |
| TRPO40020 | 4 x 20   | <b>3,363</b>  | PZ2   | 1.000   | 12.000  |
| TRPO40025 | 4 x 25   | <b>3,857</b>  | PZ2   | 1.000   | 12.000  |
| TRPO40030 | 4 x 30   | <b>4,337</b>  | PZ2   | 500   | 6.000   |
| TRPO40035 | 4 x 35   | <b>4,620</b>  | PZ2   | 500   | 6.000   |
| TRPO40040 | 4 x 40   | <b>5,330</b>  | PZ2   | 500   | 6.000   |
| TRPO40050 | 4 x 50   | <b>6,917</b>  | PZ2   | 250   | 3.000   |
| TRPO45016 | 4,5 x 16 | <b>3,937</b>  | PZ2   | 500   | 12.000  |
| TRPO45020 | 4,5 x 20 | <b>4,423</b>  | PZ2   | 500   | 8.000   |
| TRPO45025 | 4,5 x 25 | <b>5,233</b>  | PZ2   | 500   | 6.000   |
| TRPO45030 | 4,5 x 30 | <b>5,867</b>  | PZ2   | 500   | 6.000   |
| TRPO45035 | 4,5 x 35 | <b>6,777</b>  | PZ2   | 500   | 6.000   |
| TRPO45040 | 4,5 x 40 | <b>7,067</b>  | PZ2   | 500   | 3.000   |
| TRPO45045 | 4,5 x 45 | <b>7,827</b>  | PZ2   | 250   | 3.000   |
| TRPO50020 | 5 x 20   | <b>5,917</b>  | PZ2   | 500   | 6.000   |
| TRPO50030 | 5 x 30   | <b>6,877</b>  | PZ2   | 250   | 6.000   |
| TRPO50040 | 5 x 40   | <b>8,027</b>  | PZ2   | 250   | 3.000   |
| TRPO50050 | 5 x 50   | <b>10,133</b> | PZ2   | 250   | 3.000   |



# DIN-571

Coach wood screw with hexagonal head

## DIN-571

Zinc-plated



Available in different coatings. Ask for price and delivery time.

| CODE      | SIZE    | €/100         |    |     |       | CODE      | SIZE     | €/100          |    |     |     |
|-----------|---------|---------------|----|-----|-------|-----------|----------|----------------|----|-----|-----|
| • TB05030 | 5 x 30  | <b>4,870</b>  | 8  | 200 | 4.800 | TB08140   | 8 x 140  | <b>38,763</b>  | 13 | 100 | 400 |
| • TB05040 | 5 x 40  | <b>6,183</b>  | 8  | 200 | 2.400 | TB08150   | 8 x 150  | <b>40,820</b>  | 13 | 100 | 400 |
| TB05050   | 5 x 50  | <b>7,270</b>  | 8  | 200 | 2.400 | TB08160   | 8 x 160  | <b>43,067</b>  | 13 | 100 | 400 |
| TB05060   | 5 x 60  | <b>8,210</b>  | 8  | 200 | 2.400 | TB08180   | 8 x 180  | <b>56,047</b>  | 13 | 100 | 300 |
| • TB06025 | 6 x 25  | <b>5,507</b>  | 10 | 200 | 2.400 | TB08200   | 8 x 200  | <b>58,863</b>  | 13 | 100 | 300 |
| • TB06030 | 6 x 30  | <b>6,110</b>  | 10 | 200 | 2.400 | • TB10040 | 10 x 40  | <b>27,200</b>  | 17 | 100 | 600 |
| • TB06035 | 6 x 35  | <b>7,010</b>  | 10 | 200 | 2.400 | • TB10050 | 10 x 50  | <b>28,300</b>  | 17 | 100 | 600 |
| • TB06040 | 6 x 40  | <b>7,540</b>  | 10 | 200 | 2.400 | • TB10060 | 10 x 60  | <b>30,863</b>  | 17 | 100 | 600 |
| • TB06045 | 6 x 45  | <b>8,247</b>  | 10 | 200 | 2.400 | • TB10070 | 10 x 70  | <b>36,380</b>  | 17 | 100 | 600 |
| • TB06050 | 6 x 50  | <b>9,017</b>  | 10 | 200 | 2.400 | • TB10080 | 10 x 80  | <b>39,190</b>  | 17 | 100 | 400 |
| TB06060   | 6 x 60  | <b>10,630</b> | 10 | 200 | 1.200 | • TB10090 | 10 x 90  | <b>45,407</b>  | 17 | 100 | 400 |
| TB06070   | 6 x 70  | <b>12,233</b> | 10 | 200 | 1.200 | TB10100   | 10 x 100 | <b>47,120</b>  | 17 | 100 | 400 |
| TB06080   | 6 x 80  | <b>13,400</b> | 10 | 200 | 1.200 | TB10110   | 10 x 110 | <b>51,557</b>  | 17 | 50  | 300 |
| TB06090   | 6 x 90  | <b>15,783</b> | 10 | 100 | 1.200 | TB10120   | 10 x 120 | <b>56,830</b>  | 17 | 50  | 300 |
| TB06100   | 6 x 100 | <b>16,537</b> | 10 | 100 | 1.200 | TB10130   | 10 x 130 | <b>59,870</b>  | 17 | 50  | 300 |
| TB06110   | 6 x 110 | <b>21,797</b> | 10 | 100 | 1.200 | TB10140   | 10 x 140 | <b>71,457</b>  | 17 | 50  | 200 |
| TB06120   | 6 x 120 | <b>21,857</b> | 10 | 100 | 800   | TB10150   | 10 x 150 | <b>76,467</b>  | 17 | 50  | 200 |
| TB07030   | 7 x 30  | <b>9,927</b>  | 12 | 200 | 2.400 | TB10160   | 10 x 160 | <b>81,623</b>  | 17 | 50  | 200 |
| TB07040   | 7 x 40  | <b>12,103</b> | 12 | 200 | 1.600 | TB10180   | 10 x 180 | <b>89,463</b>  | 17 | 50  | 150 |
| TB07050   | 7 x 50  | <b>14,053</b> | 12 | 200 | 1.200 | TB10200   | 10 x 200 | <b>98,407</b>  | 17 | 50  | 150 |
| TB07060   | 7 x 60  | <b>16,387</b> | 12 | 100 | 1.200 | • TB12060 | 12 x 60  | <b>50,500</b>  | 19 | 50  | 300 |
| TB07070   | 7 x 70  | <b>18,187</b> | 12 | 100 | 1.200 | • TB12070 | 12 x 70  | <b>53,250</b>  | 19 | 50  | 300 |
| TB07080   | 7 x 80  | <b>20,047</b> | 12 | 100 | 800   | • TB12080 | 12 x 80  | <b>60,573</b>  | 19 | 50  | 300 |
| TB07090   | 7 x 90  | <b>20,380</b> | 12 | 100 | 400   | • TB12090 | 12 x 90  | <b>64,553</b>  | 19 | 50  | 300 |
| TB07100   | 7 x 100 | <b>23,043</b> | 12 | 100 | 600   | • TB12100 | 12 x 100 | <b>71,763</b>  | 19 | 50  | 300 |
| TB07120   | 7 x 120 | <b>28,173</b> | 12 | 100 | 600   | TB12120   | 12 x 120 | <b>87,240</b>  | 19 | 50  | 200 |
| • TB08030 | 8 x 30  | <b>11,750</b> | 13 | 200 | 1.200 | TB12130   | 12 x 130 | <b>93,713</b>  | 19 | 50  | 100 |
| • TB08040 | 8 x 40  | <b>13,917</b> | 13 | 200 | 1.200 | TB12140   | 12 x 140 | <b>100,830</b> | 19 | 50  | 100 |
| • TB08045 | 8 x 45  | <b>14,603</b> | 13 | 200 | 1.200 | TB12150   | 12 x 150 | <b>104,413</b> | 19 | 50  | 200 |
| • TB08050 | 8 x 50  | <b>16,013</b> | 13 | 200 | 1.200 | TB12160   | 12 x 160 | <b>111,570</b> | 19 | 50  | 200 |
| • TB08060 | 8 x 60  | <b>18,280</b> | 13 | 200 | 1.200 | TB12180   | 12 x 180 | <b>133,723</b> | 19 | 50  | 150 |
| • TB08070 | 8 x 70  | <b>20,787</b> | 13 | 200 | 800   | TB12200   | 12 x 200 | <b>152,303</b> | 19 | 50  | 150 |
| TB08080   | 8 x 80  | <b>23,197</b> | 13 | 200 | 800   | TB12220   | 12 x 220 | <b>166,137</b> | 19 | 50  | 100 |
| TB08090   | 8 x 90  | <b>27,163</b> | 13 | 100 | 600   | TB12240   | 12 x 240 | <b>178,190</b> | 19 | 50  | 100 |
| TB08100   | 8 x 100 | <b>29,380</b> | 13 | 100 | 600   | TB12260   | 12 x 260 | <b>195,343</b> | 19 | 50  | 100 |
| TB08110   | 8 x 110 | <b>30,253</b> | 13 | 100 | 600   | • TB14100 | 14 x 100 | <b>128,293</b> | 22 | 50  | 200 |
| TB08120   | 8 x 120 | <b>33,103</b> | 13 | 100 | 600   |           |          |                |    |     |     |
| TB08130   | 8 x 130 | <b>36,530</b> | 13 | 100 | 400   |           |          |                |    |     |     |

• Non-assessed sizes

### Blister

| CODE      | SIZE    | €/BAG        | PCS | BAGS |
|-----------|---------|--------------|-----|------|
| BZTB05030 | 5 x 30  | <b>1,820</b> | 4   | 20   |
| BZTB05040 | 5 x 40  | <b>1,820</b> | 4   | 20   |
| BZTB05050 | 5 x 50  | <b>1,820</b> | 4   | 20   |
| BZTB06030 | 6 x 30  | <b>1,820</b> | 4   | 20   |
| BZTB06040 | 6 x 40  | <b>1,820</b> | 4   | 20   |
| BZTB06050 | 6 x 50  | <b>1,820</b> | 4   | 20   |
| BZTB06060 | 6 x 60  | <b>1,820</b> | 4   | 20   |
| BZTB06070 | 6 x 70  | <b>1,820</b> | 4   | 20   |
| BZTB06080 | 6 x 80  | <b>1,820</b> | 4   | 20   |
| BZTB07050 | 7 x 50  | <b>1,820</b> | 4   | 20   |
| BZTB07060 | 7 x 60  | <b>1,820</b> | 4   | 20   |
| BZTB07070 | 7 x 70  | <b>1,820</b> | 4   | 20   |
| BZTB08040 | 8 x 40  | <b>1,820</b> | 4   | 20   |
| BZTB08050 | 8 x 50  | <b>1,820</b> | 4   | 20   |
| BZTB08060 | 8 x 60  | <b>1,820</b> | 4   | 20   |
| BZTB08070 | 8 x 70  | <b>1,820</b> | 4   | 20   |
| BZTB08080 | 8 x 80  | <b>1,820</b> | 4   | 15   |
| BZTB08090 | 8 x 90  | <b>1,820</b> | 2   | 15   |
| BZTB08100 | 8 x 100 | <b>1,820</b> | 2   | 15   |
| BZTB10050 | 10 x 50 | <b>1,820</b> | 2   | 15   |
| BZTB10060 | 10 x 60 | <b>1,820</b> | 2   | 15   |
| BZTB10080 | 10 x 80 | <b>1,820</b> | 2   | 15   |

### Window box




| CODE     | SIZE     | €/BOX        | PCS | BOXES |
|----------|----------|--------------|-----|-------|
| VTB05040 | 5 x 40   | <b>4,905</b> | 50  | 8     |
| VTB05050 | 5 x 50   | <b>5,767</b> | 50  | 8     |
| VTB06040 | 6 x 40   | <b>6,106</b> | 50  | 8     |
| VTB06050 | 6 x 50   | <b>5,729</b> | 40  | 8     |
| VTB06060 | 6 x 60   | <b>5,016</b> | 30  | 8     |
| VTB07050 | 7 x 50   | <b>5,494</b> | 25  | 8     |
| VTB07060 | 7 x 60   | <b>5,232</b> | 20  | 8     |
| VTB07070 | 7 x 70   | <b>5,655</b> | 20  | 8     |
| VTB07080 | 7 x 80   | <b>5,966</b> | 20  | 8     |
| VTB08050 | 8 x 50   | <b>5,137</b> | 20  | 8     |
| VTB08060 | 8 x 60   | <b>5,868</b> | 20  | 8     |
| VTB08070 | 8 x 70   | <b>6,669</b> | 20  | 8     |
| VTB08080 | 8 x 80   | <b>5,579</b> | 15  | 8     |
| VTB08090 | 8 x 90   | <b>4,249</b> | 10  | 8     |
| VTB08100 | 8 x 100  | <b>4,576</b> | 10  | 8     |
| VTB10070 | 10 x 70  | <b>5,745</b> | 10  | 8     |
| VTB10080 | 10 x 80  | <b>6,092</b> | 10  | 8     |
| VTB10090 | 10 x 90  | <b>7,065</b> | 10  | 8     |
| VTB10100 | 10 x 100 | <b>7,439</b> | 10  | 8     |



## Coach wood screw with hexagonal head

## DIN-571

STAINLESS  
STEEL

| CODE        | SIZE    | €/100   |  |  |  |
|-------------|---------|---------|---|---|---|
| • TBA206040 | 6 x 40  | 32,943  | 10  | 100   | 2.400   |
| • TBA206050 | 6 x 50  | 39,190  | 10  | 100   | 1.200   |
| • TBA206060 | 6 x 60  | 44,567  | 10  | 100   | 1.200   |
| • TBA206070 | 6 x 70  | 50,387  | 10  | 100   | 1.200   |
| • TBA208050 | 8 x 50  | 73,097  | 13  | 100   | 1.200   |
| • TBA208060 | 8 x 60  | 80,443  | 13  | 100   | 1.200   |
| • TBA208070 | 8 x 70  | 90,893  | 13  | 100   | 600   |
| • TBA208080 | 8 x 80  | 101,767 | 13  | 100   | 600   |
| • TBA210080 | 10 x 80 | 172,213 | 17  | 100   | 400   |

• Non-assessed sizes




## DIN-571 A2

A2 Stainless steel



WOOD



| CODE     | SIZE    | €/100  |  |  |  |
|----------|---------|--------|---|---|---|
| TBR06050 | 6 x 50  | 10,983 | 10  | 200   | 1.200   |
| TBR06060 | 6 x 60  | 12,937 | 10  | 200   | 1.200   |
| TBR06070 | 6 x 70  | 14,887 | 10  | 200   | 1.200   |
| TBR08050 | 8 x 50  | 19,483 | 13  | 200   | 1.200   |
| TBR08060 | 8 x 60  | 22,243 | 13  | 200   | 800   |
| TBR08070 | 8 x 70  | 25,287 | 13  | 200   | 800   |
| TBR08080 | 8 x 80  | 28,223 | 13  | 200   | 800   |
| TBR10060 | 10 x 60 | 37,547 | 17  | 100   | 600   |
| TBR10080 | 10 x 80 | 47,683 | 17  | 100   | 400   |

## 571 TR

Full thread






## Tamperproof screw with TX recess

## INV

WOOD



| CODE       | SIZE        | €/100   |  | MIN. ORDER QTY. |  |  |
|------------|-------------|---------|---|-----------------|---|---|
| • INVZ6040 | 6 x 40      | 26,110  | TX40  | 200             | 100   | 1.200   |
| • INVZ6050 | 6 x 50      | 27,623  | TX40  | 200             | 100   | 1.200   |
| • INVZ6060 | 6 x 60      | 29,387  | TX40  | 200             | 100   | 600   |
| • INVZ6070 | 6 x 70      | 34,940  | TX40  | 200             | 100   | 600   |
| • INVZ7030 | 7 x 30      | 24,197  | TX40  | 200             | 100   | 1.200   |
| • INVZ7040 | 7 x 40      | 24,667  | TX40  | 200             | 100   | 1.200   |
| • INVZ7050 | 7 x 50      | 24,980  | TX40  | 200             | 100   | 1.200   |
| • INVZ7060 | 7 x 60      | 28,577  | TX40  | 200             | 100   | 600   |
| • INVZ7070 | 7 x 70      | 30,280  | TX40  | 200             | 100   | 600   |
| • INVZ7080 | 7 x 80      | 34,920  | TX40  | 200             | 100   | 600   |
| • INVZ7090 | 7 x 90      | 40,117  | TX40  | 200             | 100   | 600   |
| • INVZ7165 | NEW 7 x 165 | 83,047  | TX40  | 200             | 100   | 300   |
| • INVZ7140 | NEW 7 x 140 | 66,437  | TX40  | 200             | 100   | 600   |
| • INVZ7105 | NEW 7 x 105 | 46,133  | TX40  | 200             | 100   | 600   |
| • INVZ7205 | NEW 7 x 205 | 116,263 | TX40  | 200             | 100   | 300   |
| • INVZ7120 | NEW 7 x 120 | 55,363  | TX40  | 200             | 100   | 600   |

• Non-assessed sizes



## INV Z

Zinc-plated



Available in different coatings. Ask for price and delivery time.

 Blister

| CODE       | SIZE   | €/BAG | PCS<br> | BAGS<br> |
|------------|--------|-------|--|---|
| BZINVZ7060 | 7 x 60 | 2,302 | 4  | 20  |
| BZINVZ7070 | 7 x 70 | 2,302 | 4  | 20  |
| BZINVZ7080 | 7 x 80 | 2,302 | 4  | 15  |

 Window box

| CODE      | SIZE   | €/BOX | PCS<br> | BOXES<br> |
|-----------|--------|-------|--|--|
| VINVZ7060 | 7 x 60 | 5,900 | 15   | 8  |
| VINVZ7070 | 7 x 70 | 6,039 | 15   | 8  |

# INV

Tamperproof screw with TX recess

## INV A2

A2 Stainless steel

STAINLESS STEEL



| CODE         | SIZE   | €/100          |      |     |       |
|--------------|--------|----------------|------|-----|-------|
| • INVVA27050 | 7 x 50 | <b>121,530</b> | TX40 | 100 | 1.200 |
| • INVVA27060 | 7 x 60 | <b>140,883</b> | TX40 | 100 | 600   |
| • INVVA27070 | 7 x 70 | <b>144,337</b> | TX40 | 100 | 600   |
| • INVVA27080 | 7 x 80 | <b>159,360</b> | TX40 | 100 | 600   |

• Non-assessed sizes



## INV N

Black

WOOD



| CODE        | SIZE   | €/100         |      |     |       |
|-------------|--------|---------------|------|-----|-------|
| • INVVN6040 | 6 x 40 | <b>33,490</b> | TX40 | 100 | 1.200 |
| • INVVN6050 | 6 x 50 | <b>34,567</b> | TX40 | 100 | 1.200 |
| • INVVN6060 | 6 x 60 | <b>38,287</b> | TX40 | 100 | 600   |
| • INVVN6070 | 6 x 70 | <b>42,003</b> | TX40 | 100 | 600   |
| • INVVN7030 | 7 x 30 | <b>37,883</b> | TX40 | 100 | 1.200 |
| • INVVN7040 | 7 x 40 | <b>39,513</b> | TX40 | 100 | 1.200 |
| • INVVN7050 | 7 x 50 | <b>43,520</b> | TX40 | 100 | 1.200 |
| • INVVN7060 | 7 x 60 | <b>48,273</b> | TX40 | 100 | 600   |
| • INVVN7070 | 7 x 70 | <b>51,017</b> | TX40 | 100 | 600   |
| • INVVN7080 | 7 x 80 | <b>56,020</b> | TX40 | 100 | 600   |
| • INVVN7090 | 7 x 90 | <b>60,027</b> | TX40 | 100 | 600   |

• Non-assessed sizes



Blister

| CODE       | SIZE   | €/BAG        | PCS BAG | BAGS |
|------------|--------|--------------|---------|------|
| BZINNV7060 | 7 x 60 | <b>2,302</b> | 4       | 20   |
| BZINNV7070 | 7 x 70 | <b>2,302</b> | 4       | 20   |
| BZINNV7080 | 7 x 80 | <b>2,302</b> | 2       | 15   |

Window box

| CODE      | SIZE   | €/BOX        | PCS BOX | BOXES |
|-----------|--------|--------------|---------|-------|
| VINNV7060 | 7 x 60 | <b>9,412</b> | 15      | 8     |
| VINNV7070 | 7 x 70 | <b>9,937</b> | 15      | 8     |

## ESTRINV Z

Tamperproof star. Zinc-plated

WOOD



| CODE       | SIZE | €/100        | MIN. ORDER QTY. |     |
|------------|------|--------------|-----------------|-----|
| ESTRINV40Z | ZINC | <b>4,777</b> | 400             | 100 |

## ESTRINV N

Tamperproof star. Black

WOOD





| CODE       | SIZE              | €/100        | MIN. ORDER QTY. |     |
|------------|-------------------|--------------|-----------------|-----|
| ESTRINV40N | NEGRA/BLACK/NOIRE | <b>5,603</b> | 400             | 100 |

## Assembly screw

## TRE

WOOD



| CODE      | SIZE    | €/100         |  |  |
|-----------|---------|---------------|---|--|
| TREZ05050 | Ø5 x 50 | <b>8,617</b>  | 300   | 1.800  |
| TREZ07050 | Ø7 x 50 | <b>14,390</b> | 200   | 2.400  |



Blister



Window box

| CODE        | SIZE    | €/BAG        | PCS<br> | BAGS<br> |
|-------------|---------|--------------|--|---|
| BZTREZ05050 | Ø5 x 50 | <b>1,820</b> | 4  | 20  |
| BZTREZ07050 | Ø7 x 50 | <b>1,820</b> | 4  | 20  |

| CODE       | SIZE    | €/BOX        | PCS<br> | BOXES<br> |
|------------|---------|--------------|--|--|
| VTREZ05050 | Ø5 x 50 | <b>5,004</b> | 50   | 8  |
| VTREZ07050 | Ø7 x 50 | <b>4,814</b> | 30   | 8  |



## TRE-Z

Zinc-plated



WOOD



| CODE       | SIZE    | €/100         |  |  |
|------------|---------|---------------|---|--|
| TREPV05050 | Ø5 x 50 | <b>9,850</b>  | 300   | 1.800  |
| TREPV07050 | Ø7 x 50 | <b>14,390</b> | 200   | 2.400  |



Blister



Window box

| CODE        | SIZE    | €/BAG        | PCS<br> | BAGS<br> |
|-------------|---------|--------------|--|---|
| BZTREPV0550 | Ø5 x 50 | <b>1,820</b> | 4  | 20  |
| BZTREPV0750 | Ø7 x 50 | <b>1,820</b> | 4  | 20  |

| CODE        | SIZE    | €/BOX        | PCS<br> | BOXES<br> |
|-------------|---------|--------------|--|--|
| VTREPV05050 | Ø5 x 50 | <b>5,579</b> | 50   | 8  |
| VTREPV07050 | Ø7 x 50 | <b>5,004</b> | 30   | 8  |

## TRE-PV

Black






## Farmer screw metal-wood

## FS

WOOD



| CODE       | SIZE         | €/100         |  |  |  |
|------------|--------------|---------------|---|---|---|
| AFZN144819 | 4,8 x 19 P14 | <b>18,997</b> | 8   | 250   | 3.000   |
| AFZN144828 | 4,8 x 28 P14 | <b>22,313</b> | 8   | 250   | 3.000   |
| AFZN144835 | 4,8 x 35 P14 | <b>23,287</b> | 8   | 250   | 3.000   |




## FS Z

Zinc-plated



WOOD



| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFRT144819 | 4,8 x 19 P14 3009 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFRT144828 | 4,8 x 28 P14 3009 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFRT144835 | 4,8 x 35 P14 3009 | <b>30,737</b> | 8   | 250   | 3.000   |

## FS 3009

RAL 3009. Tile red






# FS

## Farmer screw metal-wood

### FS 3011

RAL 3011. Brown red






| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFRD144819 | 4,8 x 19 P14 3011 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFRD144828 | 4,8 x 28 P14 3011 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFRD144835 | 4,8 x 35 P14 3011 | <b>30,737</b> | 8   | 250   | 3.000   |

### FS 5010

RAL 5010. Gentian blue





| CODE         | SIZE              | €/100         |  |  |  |
|--------------|-------------------|---------------|---|---|---|
| • AFAZ144819 | 4,8 x 19 P14 5010 | <b>23,180</b> | 8   | 250   | 3.000   |
| • AFAZ144828 | 4,8 x 28 P14 5010 | <b>25,723</b> | 8   | 250   | 3.000   |
| • AFAZ144835 | 4,8 x 35 P14 5010 | <b>30,737</b> | 8   | 250   | 3.000   |

• Availability: end of stock

### FS 6005

RAL 6005. Moss green






| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFVE144819 | 4,8 x 19 P14 6005 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFVE144828 | 4,8 x 28 P14 6005 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFVE144835 | 4,8 x 35 P14 6005 | <b>30,737</b> | 8   | 250   | 3.000   |

### FS 8004

RAL 8004. Copper brown






| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFMC144819 | 4,8 x 19 P14 8004 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFMC144828 | 4,8 x 28 P14 8004 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFMC144835 | 4,8 x 35 P14 8004 | <b>30,737</b> | 8   | 250   | 3.000   |

### FS 8017

RAL 8017. Chocolate brown






| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFMD144819 | 4,8 x 19 P14 8017 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFMD144828 | 4,8 x 28 P14 8017 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFMD144835 | 4,8 x 35 P14 8017 | <b>30,737</b> | 8   | 250   | 3.000   |

## Farmer screw metal-wood

FS

WOOD



| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFPG144819 | 4,8 x 19 P14 8019 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFPG144828 | 4,8 x 28 P14 8019 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFPG144835 | 4,8 x 35 P14 8019 | <b>30,737</b> | 8   | 250   | 3.000   |




## FS 8019

RAL 8019. Grey brown



WOOD



| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFGR144819 | 4,8 x 19 P14 9006 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFGR144828 | 4,8 x 28 P14 9006 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFGR144835 | 4,8 x 35 P14 9006 | <b>30,737</b> | 8   | 250   | 3.000   |




## FS 9006

RAL 9006. Grey aluminium



WOOD



| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFBL144819 | 4,8 x 19 P14 9010 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFBL144828 | 4,8 x 28 P14 9010 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFBL144835 | 4,8 x 35 P14 9010 | <b>30,737</b> | 8   | 250   | 3.000   |




## FS 9010

RAL 9010. Pure white



WOOD



| CODE       | SIZE              | €/100         |  |  |  |
|------------|-------------------|---------------|---|---|---|
| AFNE144819 | 4,8 x 19 P14 9011 | <b>23,180</b> | 8   | 250   | 3.000   |
| AFNE144828 | 4,8 x 28 P14 9011 | <b>25,723</b> | 8   | 250   | 3.000   |
| AFNE144835 | 4,8 x 35 P14 9011 | <b>30,737</b> | 8   | 250   | 3.000   |

## FS 9011

RAL 9011. Black



Special extraflat cylindrical head screw with twinfast thread for aluminium. Zinc plated and TX recess

FIMA

WOOD



| CODE    | SIZE     | €/100         |  |  |  |
|---------|----------|---------------|---|---|---|
| TFI4825 | 4,8 x 25 | <b>7,750</b>  | TX20  | 500   | 6.000   |
| TFI4835 | 4,8 x 35 | <b>9,217</b>  | TX20  | 500   | 6.000   |
| TFI4845 | 4,8 x 45 | <b>11,863</b> | TX20  | 500   | 3.000   |
| TFI4855 | 4,8 x 55 | <b>13,883</b> | TX20  | 500   | 3.000   |
| TFI4865 | 4,8 x 65 | <b>16,500</b> | TX20  | 250   | 1.500   |
| TFI4875 | 4,8 x 75 | <b>19,743</b> | TX20  | 250   | 1.500   |
| TFI4890 | 4,8 x 90 | <b>29,553</b> | TX20  | 250   | 1.500   |







A  
PERFE  
FIXIN  
ND



# NAILS AND BOLTS



# AL

## Hook screw

### AL-RE

Round steel hook screw





MULTI-MATERIAL





| CODE      | SIZE          | €/100         |  |  |
|-----------|---------------|---------------|---|---|
| ALRE20015 | 2 x 15 x 7    | <b>0,673</b>  | 500   | 22.500  |
| ALRE25020 | 2,5 x 20 x 12 | <b>1,467</b>  | 500   | 22.500  |
| ALRE25025 | 2,5 x 25 x 12 | <b>1,603</b>  | 500   | 12.000  |
| ALRE25030 | 2,5 x 30 x 12 | <b>2,080</b>  | 300   | 7.200   |
| ALRE35040 | 3,5 x 40 x 14 | <b>5,130</b>  | 300   | 7.200   |
| ALRE35050 | 3,5 x 50 x 14 | <b>5,400</b>  | 300   | 3.600   |
| ALRE40060 | 4 x 60 x 16   | <b>7,423</b>  | 200   | 2.400   |
| ALRE40070 | 4 x 70 x 16   | <b>9,347</b>  | 200   | 1.200   |
| ALRE40080 | 4 x 80 x 16   | <b>10,443</b> | 100   | 1.200   |

#### Blister

| CODE        | SIZE          | €/BAG        | PCS  | BAGS  |
|-------------|---------------|--------------|---|--|
| BZALRE20015 | 2 x 15 x 7    | <b>1,820</b> | 25  | 20   |
| BZALRE25020 | 2,5 x 20 x 12 | <b>1,820</b> | 25  | 20   |
| BZALRE25025 | 2,5 x 25 x 12 | <b>1,820</b> | 25  | 20   |
| BZALRE25030 | 2,5 x 30 x 12 | <b>1,820</b> | 15  | 20   |
| BZALRE35040 | 3,5 x 40 x 14 | <b>1,820</b> | 15  | 20   |
| BZALRE35050 | 3,5 x 50 x 14 | <b>1,820</b> | 15  | 20   |
| BZALRE40060 | 4 x 60 x 16   | <b>1,820</b> | 10  | 20   |
| BZALRE40070 | 4 x 70 x 16   | <b>1,820</b> | 6   | 20   |
| BZALRE40080 | 4 x 80 x 16   | <b>1,820</b> | 4   | 20   |

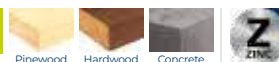
#### Window box



| CODE       | SIZE          | €/BOX        | PCS  | BOXES  |
|------------|---------------|--------------|---|---|
| VALRE25020 | 2,5 x 20 x 12 | <b>2,938</b> | 125   | 8   |
| VALRE25030 | 2,5 x 30 x 12 | <b>3,183</b> | 100   | 8   |
| VALRE35040 | 3,5 x 40 x 14 | <b>7,046</b> | 100   | 8   |
| VALRE35050 | 3,5 x 50 x 14 | <b>7,163</b> | 100   | 8   |
| VALRE40060 | 4 x 60 x 16   | <b>5,083</b> | 50  | 8   |
| VALRE40070 | 4 x 70 x 16   | <b>6,394</b> | 50  | 8   |
| VALRE40080 | 4 x 80 x 16   | <b>4,313</b> | 30  | 8   |

### AL-PL

Flat steel hook screw

MULTI-MATERIAL



| CODE      | SIZE           | €/100          |  |  |
|-----------|----------------|----------------|---|---|
| ALPL45060 | 4,5 x 60 x 20  | <b>41,923</b>  | 100   | 2.400   |
| ALPL45080 | 4,5 x 80 x 20  | <b>53,073</b>  | 100   | 1.200   |
| ALPL45100 | 4,5 x 100 x 20 | <b>73,723</b>  | 100   | 600   |
| ALPL50120 | 5 x 120 x 25   | <b>109,107</b> | 100   | 400   |

#### Blister

| CODE        | SIZE           | €/BAG        | PCS  | BAGS  |
|-------------|----------------|--------------|---|--|
| BZALPL45060 | 4,5 x 60 x 20  | <b>3,071</b> | 4   | 20   |
| BZALPL45080 | 4,5 x 80 x 20  | <b>3,071</b> | 4   | 20   |
| BZALPL45100 | 4,5 x 100 x 20 | <b>3,071</b> | 2   | 15   |
| BZALPL50120 | 5 x 120 x 25   | <b>3,071</b> | 2   | 10   |



Hook screw

AL

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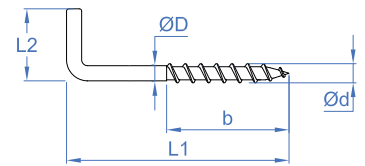
WOOD



| CODE      | €/100  | ØD  | L1  | b  | L2 | d   |  |  |
|-----------|--------|-----|-----|----|----|-----|---|---|
| ALRO14025 | 2,947  | 2,6 | 17  | 10 | 10 | 2,6 | 500   | 22.500  |
| ALRO16030 | 3,333  | 3,1 | 20  | 12 | 10 | 3,1 | 300   | 13.500  |
| ALRO17040 | 4,687  | 3,5 | 29  | 17 | 13 | 3,5 | 300   | 7.200   |
| ALRO18040 | 5,287  | 3,7 | 28  | 17 | 14 | 3,7 | 300   | 7.200   |
| ALRO18050 | 5,740  | 3,7 | 37  | 22 | 15 | 3,7 | 300   | 7.200   |
| ALRO19050 | 7,457  | 4,4 | 37  | 22 | 15 | 4,4 | 200   | 4.800   |
| ALRO19060 | 8,013  | 4,4 | 46  | 28 | 17 | 4,4 | 200   | 4.800   |
| ALRO19070 | 8,983  | 4,4 | 55  | 33 | 18 | 4,4 | 200   | 2.400   |
| ALRO20060 | 9,820  | 5   | 44  | 26 | 20 | 5   | 200   | 2.400   |
| ALRO20070 | 10,523 | 5   | 53  | 32 | 20 | 5   | 200   | 1.600   |
| ALRO20080 | 11,790 | 5   | 63  | 38 | 21 | 5   | 200   | 2.400   |
| ALRO21080 | 14,203 | 5,6 | 60  | 36 | 22 | 5,6 | 200   | 2.400   |
| ALRO21090 | 15,737 | 5,6 | 70  | 42 | 22 | 5,6 | 200   | 800   |
| ALRO22100 | 19,633 | 6   | 79  | 47 | 23 | 6   | 100   | 1.200   |
| ALRO22110 | 21,350 | 6   | 86  | 52 | 23 | 6   | 100   | 1.200   |
| ALRO22120 | 22,270 | 6   | 97  | 58 | 25 | 6   | 50  | 800   |
| ALRO23130 | 30,150 | 7,8 | 105 | 63 | 25 | 7,8 | 50  | 600   |

AL-RO


Threaded hook screw



 Blister

| CODE        | SIZE                    | €/BAG | PCS<br> | BAGS<br> |
|-------------|-------------------------|-------|--|---|
| BZALRO14025 | 14x25 (2,6 x 17 x 10)   | 1,820 | 25   | 20  |
| BZALRO16030 | 16x30 (3,1 x 20 x 10)   | 1,820 | 15   | 20  |
| BZALRO17040 | 17x40 (3,5 x 29 x 13)   | 1,820 | 15   | 20  |
| BZALRO18040 | 18x40 (3,7 x 28 x 14)   | 1,820 | 15   | 20  |
| BZALRO18050 | 18x50 (3,7 x 37 x 15)   | 1,820 | 15   | 20  |
| BZALRO19050 | 19x50 (4,4 x 37 x 15)   | 1,820 | 10   | 20  |
| BZALRO19060 | 19x60 (4,4 x 46 x 17)   | 1,820 | 10   | 20  |
| BZALRO19070 | 19x70 (4,4 x 55 x 18)   | 1,820 | 10   | 20  |
| BZALRO20060 | 20x60 (5 x 44 x 20)     | 1,820 | 8  | 20  |
| BZALRO20070 | 20x70 (5 x 53 x 20)     | 1,820 | 8  | 20  |
| BZALRO21080 | 21x80 (5,6 x 60 x 22)   | 1,820 | 6  | 20  |
| BZALRO21090 | 21x90 (5,6 x 70 x 22)   | 1,820 | 6  | 20  |
| BZALRO22100 | 22x100 (6 x 79 x 23)    | 1,820 | 4  | 20  |
| BZALRO22110 | 22x110 (6 x 86 x 23)    | 1,820 | 2  | 20  |
| BZALRO22120 | 22x120 (6 x 97 x 25)    | 1,820 | 2  | 20  |
| BZALRO23130 | 23x130 (7,8 x 105 x 25) | 1,820 | 2  | 20  |



 Window box

| CODE       | SIZE                    | €/BOX  | PCS<br> | BOXES<br> |
|------------|-------------------------|--------|--|--|
| VALRO14025 | 14x25 (2,6 x 17 x 10)   | 5,235  | 125  | 8  |
| VALRO16030 | 16x30 (3,1 x 20 x 10)   | 3,569  | 75   | 8  |
| VALRO17040 | 17x40 (3,5 x 29 x 13)   | 5,016  | 75   | 8  |
| VALRO18040 | 18x40 (3,7 x 28 x 14)   | 5,634  | 75   | 8  |
| VALRO18050 | 18x50 (3,7 x 37 x 15)   | 7,375  | 75   | 8  |
| VALRO19050 | 19x50 (4,4 x 37 x 15)   | 6,387  | 60   | 8  |
| VALRO19060 | 19x60 (4,4 x 46 x 17)   | 6,869  | 60   | 8  |
| VALRO19070 | 19x70 (4,4 x 55 x 18)   | 7,695  | 60   | 8  |
| VALRO20060 | 20x60 (5 x 44 x 20)     | 8,414  | 60   | 8  |
| VALRO20070 | 20x70 (5 x 53 x 20)     | 9,016  | 60   | 8  |
| VALRO20080 | 20x80 (5 x 63 x 21)     | 10,099 | 60   | 8  |
| VALRO21080 | 21x80 (5,6 x 60 x 22)   | 14,196 | 50   | 8  |
| VALRO21090 | 21x90 (5,6 x 70 x 22)   | 15,725 | 40   | 8  |
| VALRO22100 | 22x100 (6 x 79 x 23)    | 10,010 | 35   | 8  |
| VALRO22110 | 22x110 (6 x 86 x 23)    | 11,502 | 35   | 8  |
| VALRO22120 | 22x120 (6 x 97 x 25)    | 7,394  | 20   | 8  |
| VALRO23130 | 23x130 (7,8 x 105 x 25) | 8,895  | 20   | 8  |

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WOOD



| CODE       | €/100  | ØD  | L1 | b  | L2 | d   |  |  |
|------------|--------|-----|----|----|----|-----|---|---|
| ALROB16030 | 7,303  | 3,1 | 20 | 10 | 10 | 3,1 | 300   | 13.500  |
| ALROB17040 | 9,223  | 3,5 | 29 | 13 | 13 | 3,5 | 300   | 7.200   |
| ALROB18050 | 13,917 | 3,7 | 37 | 18 | 15 | 3,7 | 300   | 7.200   |
| ALROB19060 | 15,990 | 4,4 | 46 | 24 | 17 | 4,4 | 200   | 4.800   |

AL-RO B

Threaded hook screw. White lacquered



 Blister

| CODE        | SIZE                  | €/BAG | PCS<br> | BAGS<br> |
|-------------|-----------------------|-------|--|---|
| BZALROB1630 | 16x30 (3,1 x 20 x 10) | 2,302 | 15   | 20  |
| BZALROB1740 | 17x40 (3,5 x 29 x 13) | 2,302 | 15   | 20  |
| BZALROB1850 | 18x50 (3,7 x 37 x 15) | 2,302 | 15   | 20  |
| BZALROB1960 | 19x60 (4,4 x 46 x 17) | 2,302 | 10   | 20  |

 Window box

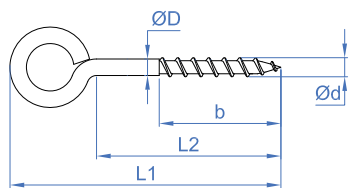
| CODE        | SIZE                  | €/BOX  | PCS<br> | BOXES<br> |
|-------------|-----------------------|--------|--|--|
| VALROB16030 | 16x30 (3,1 x 20 x 10) | 7,426  | 75   | 8  |
| VALROB17040 | 17x40 (3,5 x 29 x 13) | 9,013  | 75   | 8  |
| VALROB18050 | 18x50 (3,7 x 37 x 15) | 13,015 | 75   | 8  |
| VALROB19060 | 19x60 (4,4 x 46 x 17) | 10,381 | 50   | 8  |

# HB

## Screw eyes



### AL-HC

Closed steel eye bolt



 Technical info  
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| CODE      | €/100  | ØD  | L1 | b  | L2 | d   |  |  |
|-----------|--------|-----|----|----|----|-----|---|---|
| ALHC14025 | 2,947  | 2.6 | 18 | 7  | 10 | 2.6 | 500   | 22.500  |
| ALHC16030 | 3,333  | 3.1 | 22 | 9  | 12 | 3.1 | 300   | 13.500  |
| ALHC17040 | 4,687  | 3.5 | 26 | 10 | 14 | 3.5 | 300   | 7.200   |
| ALHC18040 | 5,287  | 4.1 | 28 | 10 | 15 | 4.1 | 300   | 7.200   |
| ALHC18050 | 5,740  | 4.1 | 34 | 12 | 20 | 3.7 | 300   | 7.200   |
| ALHC19050 | 7,457  | 4.4 | 33 | 12 | 18 | 4.4 | 200   | 4.800   |
| ALHC19060 | 8,013  | 4.4 | 39 | 15 | 22 | 4.4 | 200   | 4.800   |
| ALHC19070 | 8,983  | 4.4 | 41 | 15 | 24 | 4.4 | 200   | 4.800   |
| ALHC20050 | 9,120  | 5   | 35 | 12 | 19 | 5   | 200   | 4.800   |
| ALHC20060 | 9,820  | 5   | 39 | 12 | 21 | 5   | 200   | 3.200   |
| ALHC20070 | 10,523 | 5   | 44 | 14 | 26 | 5   | 200   | 2.400   |
| ALHC20080 | 11,790 | 5   | 50 | 18 | 30 | 5   | 200   | 2.400   |
| ALHC21070 | 12,997 | 5.6 | 43 | 14 | 23 | 5.6 | 200   | 2.400   |
| ALHC21080 | 14,203 | 5.6 | 48 | 14 | 28 | 5.6 | 200   | 2.400   |
| ALHC21090 | 15,737 | 5.6 | 56 | 14 | 32 | 5.6 | 200   | 1.200   |
| ALHC21100 | 15,753 | 5.6 | 61 | 18 | 37 | 5.6 | 100   | 1.200   |
| ALHC22110 | 21,350 | 6   | 69 | 24 | 43 | 6   | 100   | 1.200   |
| ALHC22120 | 22,270 | 6   | 74 | 29 | 48 | 6   | 50  | 600   |
| ALHC23130 | 30,150 | 6.3 | 83 | 35 | 55 | 6.3 | 50  | 600   |

 Blister

| CODE        | SIZE                   | €/BAG | PCS | BAGS |
|-------------|------------------------|-------|-----|------|
| BZALHC14025 | 14x25 (2,6 x 18 x 7)   | 1,820 | 25  | 20   |
| BZALHC16030 | 16x30 (3,1 x 22 x 9)   | 1,820 | 15  | 20   |
| BZALHC17040 | 17x40 (3,5 x 26 x 10)  | 1,820 | 15  | 20   |
| BZALHC18040 | 18x40 (4,1 x 28 x 10)  | 1,820 | 15  | 20   |
| BZALHC18050 | 18x50 (3,7 x 34 x 12)  | 1,820 | 15  | 20   |
| BZALHC19050 | 19x50 (4,4 x 33 x 12)  | 1,820 | 10  | 20   |
| BZALHC19060 | 19x60 (4,4 x 39 x 15)  | 1,820 | 10  | 20   |
| BZALHC19070 | 19x70 (4,4 x 41 x 15)  | 1,820 | 10  | 20   |
| BZALHC20060 | 20x60 (5 x 39 x 12)    | 1,820 | 8   | 20   |
| BZALHC20070 | 20x70 (5 x 44 x 14)    | 1,820 | 8   | 20   |
| BZALHC20080 | 20x80 (5 x 50 x 18)    | 1,820 | 8   | 15   |
| BZALHC21080 | 21x80 (5,6 x 48 x 14)  | 1,820 | 6   | 15   |
| BZALHC21090 | 21x90 (5,6 x 56 x 14)  | 1,820 | 6   | 15   |
| BZALHC21100 | 21x100 (5,6 x 61 x 18) | 1,820 | 4   | 20   |
| BZALHC22110 | 22x110 (6 x 69 x 24)   | 1,820 | 2   | 20   |
| BZALHC22120 | 22x120 (6 x 74 x 29)   | 1,820 | 2   | 20   |
| BZALHC23130 | 23x130 (6,3 x 83 x 35) | 1,820 | 2   | 20   |

 Window box

| CODE       | SIZE                   | €/BOX  | PCS | BOXES |
|------------|------------------------|--------|-----|-------|
| VALHC14025 | 14x25 (2,6 x 18 x 7)   | 5,235  | 125 | 8     |
| VALHC16030 | 16x30 (3,1 x 22 x 9)   | 3,569  | 75  | 8     |
| VALHC17040 | 17x40 (3,5 x 26 x 10)  | 5,016  | 75  | 8     |
| VALHC18040 | 18x40 (4,1 x 28 x 10)  | 5,634  | 75  | 8     |
| VALHC18050 | 18x50 (3,7 x 34 x 12)  | 7,375  | 75  | 8     |
| VALHC19050 | 19x50 (4,4 x 33 x 12)  | 6,387  | 60  | 8     |
| VALHC19060 | 19x60 (4,4 x 39 x 15)  | 6,869  | 60  | 8     |
| VALHC19070 | 19x70 (4,4 x 41 x 15)  | 7,695  | 60  | 8     |
| VALHC20050 | 20x50 (5 x 35 x 12)    | 7,809  | 60  | 8     |
| VALHC20060 | 20x60 (5 x 39 x 12)    | 8,414  | 60  | 8     |
| VALHC20070 | 20x70 (5 x 44 x 14)    | 9,016  | 60  | 8     |
| VALHC20080 | 20x80 (5 x 50 x 18)    | 10,099 | 60  | 8     |
| VALHC21070 | 21x70 (5,6 x 43 x 14)  | 12,920 | 60  | 8     |
| VALHC21080 | 21x80 (5,6 x 48 x 14)  | 14,196 | 50  | 8     |
| VALHC21090 | 21x90 (5,6 x 56 x 14)  | 15,725 | 40  | 8     |
| VALHC21100 | 21x100 (5,6 x 61 x 18) | 8,522  | 35  | 8     |
| VALHC22110 | 22x110 (6 x 69 x 24)   | 11,502 | 20  | 8     |
| VALHC22120 | 22x120 (6 x 74 x 29)   | 7,394  | 20  | 8     |
| VALHC23130 | 23x130 (6,3 x 83 x 35) | 8,895  | 20  | 8     |



### AL-HC B

Closed steel eye bolt. White lacquered



 Technical info  
P. 409



| CODE       | €/100  | ØD  | L1 | b  | L2 | d   |  |  |
|------------|--------|-----|----|----|----|-----|---|---|
| ALHCB16030 | 7,303  | 3.1 | 22 | 9  | 12 | 3.1 | 300   | 13.500  |
| ALHCB17040 | 9,223  | 3.5 | 26 | 10 | 14 | 3.5 | 300   | 7.200   |
| ALHCB18050 | 13,917 | 3.7 | 34 | 12 | 20 | 3.7 | 300   | 7.200   |
| ALHCB19060 | 15,990 | 4.4 | 39 | 15 | 22 | 4.4 | 200   | 4.800   |

 Blister

| CODE        | SIZE                  | €/BAG | PCS | BAGS |
|-------------|-----------------------|-------|-----|------|
| BZALHCB1630 | 16x30 (3,1 x 22 x 9)  | 2,302 | 15  | 20   |
| BZALHCB1740 | 17x40 (3,5 x 26 x 10) | 2,302 | 15  | 20   |
| BZALHCB1850 | 18x50 (3,7 x 34 x 12) | 2,302 | 15  | 20   |
| BZALHCB1960 | 19x60 (4,4 x 39 x 15) | 2,302 | 10  | 20   |





Screw eyes

HB

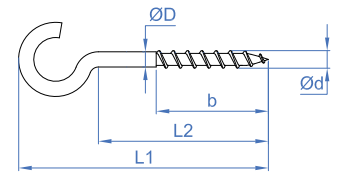
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| CODE      | €/100  | ØD  | L1 | b  | L2 | d   |  |  |
|-----------|--------|-----|----|----|----|-----|---|---|
| ALHA14025 | 2,947  | 2.6 | 18 | 7  | 10 | 2.6 | 500   | 22.500  |
| ALHA16030 | 3,333  | 3.1 | 22 | 9  | 12 | 3.1 | 300   | 13.500  |
| ALHA17040 | 4,687  | 3.5 | 27 | 10 | 14 | 3.5 | 300   | 7.200   |
| ALHA18040 | 5,287  | 4.1 | 29 | 10 | 15 | 4.1 | 300   | 7.200   |
| ALHA18050 | 5,740  | 4.1 | 38 | 12 | 20 | 4.1 | 300   | 3.600   |
| ALHA19050 | 7,457  | 4.4 | 35 | 12 | 18 | 4.4 | 200   | 4.800   |
| ALHA19060 | 8,013  | 4.4 | 42 | 15 | 22 | 4.4 | 200   | 4.800   |
| ALHA19070 | 8,983  | 4.4 | 44 | 15 | 24 | 4.4 | 200   | 2.400   |
| ALHA20050 | 9,120  | 5   | 39 | 12 | 19 | 5   | 200   | 2.400   |
| ALHA20060 | 9,820  | 5   | 41 | 12 | 21 | 5   | 200   | 2.400   |
| ALHA20070 | 10,523 | 5   | 48 | 14 | 26 | 5   | 200   | 2.400   |
| ALHA20080 | 11,790 | 5   | 54 | 18 | 30 | 5   | 200   | 2.400   |
| ALHA21070 | 12,997 | 5.6 | 49 | 14 | 23 | 5.6 | 200   | 2.400   |
| ALHA21080 | 14,203 | 5.6 | 54 | 14 | 28 | 5.6 | 200   | 2.400   |
| ALHA21090 | 15,737 | 5.6 | 60 | 14 | 32 | 5.6 | 200   | 1.200   |
| ALHA21100 | 15,753 | 5.6 | 66 | 18 | 37 | 5.6 | 100   | 1.200   |
| ALHA22110 | 21,350 | 6   | 76 | 24 | 43 | 6   | 100   | 1.200   |
| ALHA22120 | 22,270 | 6   | 81 | 29 | 48 | 6   | 50  | 600   |
| ALHA23130 | 30,150 | 6.3 | 89 | 35 | 55 | 6.3 | 50  | 600   |

AL-HA

Open steel eye bolt



02 Blister p. 408



| CODE        | SIZE                   | €/BAG | PCS BAG | BAGS |
|-------------|------------------------|-------|---------|------|
| BZALHA14025 | 14x25 (2,6 x 18 x 7)   | 1,820 | 25      | 20   |
| BZALHA16030 | 16x30 (3,1 x 22 x 9)   | 1,820 | 15      | 20   |
| BZALHA17040 | 17x40 (3,5 x 26 x 10)  | 1,820 | 15      | 20   |
| BZALHA18040 | 18x40 (4,1 x 29 x 10)  | 1,820 | 15      | 20   |
| BZALHA18050 | 18x50 (4,1 x 34 x 12)  | 1,820 | 15      | 20   |
| BZALHA19050 | 19x50 (4,4 x 33 x 12)  | 1,820 | 10      | 20   |
| BZALHA19060 | 19x60 (4,4 x 39 x 15)  | 1,820 | 10      | 20   |
| BZALHA19070 | 19x70 (4,4 x 41 x 15)  | 1,820 | 10      | 20   |
| BZALHA20060 | 20x60 (5 x 39 x 12)    | 1,820 | 8       | 20   |
| BZALHA20070 | 20x70 (5 x 44 x 14)    | 1,820 | 8       | 20   |
| BZALHA20080 | 20x80 (5 x 50 x 18)    | 1,820 | 8       | 20   |
| BZALHA21080 | 21x80 (5,6 x 48 x 14)  | 1,820 | 6       | 20   |
| BZALHA21090 | 21x90 (5,6 x 56 x 14)  | 1,820 | 6       | 20   |
| BZALHA21100 | 21x100 (5,6 x 61 x 18) | 1,820 | 5       | 15   |
| BZALHA22110 | 22x110 (6 x 69 x 24)   | 1,820 | 2       | 15   |
| BZALHA22120 | 22x120 (6 x 74 x 29)   | 1,820 | 2       | 15   |
| BZALHA23130 | 23x130 (6,3 x 82 x 35) | 1,820 | 2       | 15   |

02 Window box

| CODE       | SIZE                   | €/BOX  | PCS BOXES |   |
|------------|------------------------|--------|-----------|---|
| VALHA14025 | 14x25 (2,6 x 18 x 7)   | 5,235  | 125       | 8 |
| VALHA16030 | 16x30 (3,1 x 22 x 9)   | 3,569  | 75        | 8 |
| VALHA17040 | 17x40 (3,5 x 26 x 10)  | 5,016  | 75        | 8 |
| VALHA18040 | 18x40 (4,1 x 29 x 10)  | 5,634  | 75        | 8 |
| VALHA18050 | 18x50 (4,1 x 34 x 12)  | 7,375  | 75        | 8 |
| VALHA19050 | 19x50 (4,4 x 33 x 12)  | 6,387  | 60        | 8 |
| VALHA19060 | 19x60 (4,4 x 39 x 15)  | 6,869  | 60        | 8 |
| VALHA19070 | 19x70 (4,4 x 41 x 15)  | 7,695  | 60        | 8 |
| VALHA20050 | 20x50 (5 x 35 x 12)    | 7,809  | 60        | 8 |
| VALHA20060 | 20x60 (5 x 39 x 12)    | 8,414  | 60        | 8 |
| VALHA20070 | 20x70 (5 x 44 x 14)    | 9,016  | 60        | 8 |
| VALHA20080 | 20x80 (5 x 50 x 18)    | 10,099 | 60        | 8 |
| VALHA21070 | 21x70 (5,6 x 43 x 14)  | 12,920 | 60        | 8 |
| VALHA21080 | 21x80 (5,6 x 48 x 14)  | 14,196 | 50        | 8 |
| VALHA21090 | 21x90 (5,6 x 56 x 14)  | 15,725 | 40        | 8 |
| VALHA21100 | 21x100 (5,6 x 61 x 18) | 8,522  | 35        | 8 |
| VALHA22110 | 22x110 (6 x 69 x 24)   | 11,502 | 20        | 8 |
| VALHA22120 | 22x120 (6 x 74 x 29)   | 7,394  | 20        | 8 |
| VALHA23130 | 23x130 (6,3 x 82 x 35) | 8,895  | 20        | 8 |

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| CODE       | €/100  | ØD  | L1 | b  | L2 | d   |  |  |
|------------|--------|-----|----|----|----|-----|---|---|
| ALHAB16030 | 7,303  | 3.1 | 22 | 9  | 12 | 3.1 | 300   | 13.500  |
| ALHAB17040 | 9,223  | 3.5 | 26 | 10 | 14 | 3.5 | 300   | 7.200   |
| ALHAB18050 | 13,917 | 4.1 | 34 | 12 | 20 | 3.7 | 300   | 7.200   |
| ALHAB19060 | 15,990 | 4.4 | 39 | 15 | 22 | 4.4 | 200   | 4.800   |

AL-HA B

Open steel eye bolt. White lacquered



02 Blister p. 408

| CODE        | SIZE                  | €/BAG | PCS BAG | BAGS |
|-------------|-----------------------|-------|---------|------|
| BZALHAB1630 | 16x30 (3,1 x 22 x 9)  | 2,302 | 15      | 20   |
| BZALHAB1740 | 17x40 (3,5 x 26 x 10) | 2,302 | 15      | 20   |
| BZALHAB1850 | 18x50 (4,1 x 34 x 12) | 2,302 | 15      | 20   |
| BZALHAB1960 | 19x60 (4,4 x 39 x 15) | 2,302 | 10      | 20   |

02 Window box

| CODE        | SIZE                  | €/BOX  | PCS BOXES |   |
|-------------|-----------------------|--------|-----------|---|
| VALHAB16030 | 16x30 (3,1 x 22 x 9)  | 7,426  | 75        | 8 |
| VALHAB17040 | 17x40 (3,5 x 26 x 10) | 9,013  | 75        | 8 |
| VALHAB18050 | 18x50 (4,1 x 34 x 12) | 13,015 | 75        | 8 |
| VALHAB19060 | 19x60 (4,4 x 39 x 15) | 10,381 | 50        | 8 |



# HB

## Screw eyes


### HC-RM

Closed-end nut metric thread with screw



| CODE      | SIZE    | €/100          |  |  |
|-----------|---------|----------------|---|---|
| HCRM03026 | 3 x 26  | <b>28,020</b>  | 100   | 4,500   |
| HCRM04035 | 4 x 35  | <b>31,137</b>  | 100   | 2,400   |
| HCRM05037 | 5 x 37  | <b>37,183</b>  | 100   | 1,200   |
| HCRM06050 | 6 x 50  | <b>75,233</b>  | 100   | 1,200   |
| HCRM08060 | 8 x 60  | <b>86,477</b>  | 100   | 600   |
| HCRM10065 | 10 x 65 | <b>155,653</b> | 50  | 300   |
| HCRM12075 | 12 x 75 | <b>207,540</b> | 50  | 150   |



#### Blister

| CODE        | SIZE    | €/BAG        | PCS  | BAGS  |
|-------------|---------|--------------|---|--|
| BZHCRM03026 | 3 x 26  | <b>1,820</b> | 15  | 20   |
| BZHCRM04035 | 4 x 35  | <b>1,820</b> | 15  | 20   |
| BZHCRM05037 | 5 x 37  | <b>1,820</b> | 8   | 20   |
| BZHCRM06050 | 6 x 50  | <b>1,820</b> | 6   | 20   |
| BZHCRM08060 | 8 x 60  | <b>1,820</b> | 2   | 20   |
| BZHCRM10065 | 10 x 65 | <b>1,820</b> | 2   | 20   |



### HA-RM

Open end nut metric thread with screw



| CODE      | SIZE   | €/100         |  |  |
|-----------|--------|---------------|---|---|
| HARM03026 | 3 x 26 | <b>28,020</b> | 100   | 4,500   |
| HARM04035 | 4 x 35 | <b>31,137</b> | 100   | 2,400   |
| HARM05037 | 5 x 37 | <b>37,183</b> | 100   | 1,200   |
| HARM06050 | 6 x 50 | <b>75,233</b> | 100   | 1,200   |
| HARM08060 | 8 x 60 | <b>86,477</b> | 50  | 300   |

#### Blister

| CODE        | SIZE   | €/BAG        | PCS  | BAGS  |
|-------------|--------|--------------|---|--|
| BZHARM03026 | 3 x 26 | <b>1,820</b> | 15  | 20   |
| BZHARM04035 | 4 x 35 | <b>1,820</b> | 15  | 20   |
| BZHARM05037 | 5 x 37 | <b>1,820</b> | 8   | 20   |
| BZHARM06050 | 6 x 50 | <b>1,820</b> | 6   | 20   |
| BZHARM08060 | 8 x 60 | <b>1,820</b> | 2   | 20   |

Nails



PC

MULTI-MATERIAL



PA-CP

Flat head steel nails

| CODE      | SIZE      | €/100 |  |  |
|-----------|-----------|-------|---|---|
| PACP22520 | 2,25 x 20 | 1,097 | 500   | 22.500  |
| PACP22525 | 2,25 x 25 | 1,307 | 500   | 22.500  |
| PACP22530 | 2,25 x 30 | 1,507 | 500   | 12.000  |
| PACP25040 | 2,50 x 40 | 2,457 | 500   | 12.000  |
| PACP25050 | 2,50 x 50 | 2,553 | 500   | 6.000   |
| PACP29050 | 2,90 x 50 | 3,663 | 300   | 3.600   |
| PACP29060 | 2,90 x 60 | 4,287 | 300   | 3.600   |
| PACP29070 | 2,90 x 70 | 4,923 | 300   | 2.400   |
| PACP34030 | 3,40 x 30 | 2,927 | 500   | 4.000   |
| PACP34040 | 3,40 x 40 | 3,550 | 500   | 6.000   |
| PACP34050 | 3,40 x 50 | 5,243 | 100   | 4.500   |
| PACP34060 | 3,40 x 60 | 5,637 | 100   | 2.400   |
| PACP34070 | 3,40 x 70 | 6,417 | 100   | 2.400   |
| PACP34080 | 3,40 x 80 | 7,477 | 100   | 1.600   |





 Blister

| CODE        | SIZE      | €/BAG | PCS BAG | BAGS |
|-------------|-----------|-------|---------|------|
| BZPACP22520 | 2,25 x 20 | 2,302 | 50      | 20   |
| BZPACP22525 | 2,25 x 25 | 2,302 | 50      | 20   |
| BZPACP22530 | 2,25 x 30 | 2,302 | 50      | 20   |
| BZPACP25040 | 2,50 x 40 | 2,302 | 35      | 20   |
| BZPACP25050 | 2,50 x 50 | 2,302 | 30      | 20   |
| BZPACP29060 | 2,90 x 60 | 2,302 | 20      | 20   |
| BZPACP29070 | 2,90 x 70 | 2,302 | 20      | 20   |
| BZPACP34040 | 3,40 x 40 | 2,302 | 20      | 20   |
| BZPACP34050 | 3,40 x 50 | 2,302 | 10      | 20   |
| BZPACP34060 | 3,40 x 60 | 2,302 | 10      | 20   |
| BZPACP34070 | 3,40 x 70 | 2,302 | 10      | 20   |



PA-CC

Copper-plated lead bit conical head

| CODE      | SIZE     | €/100 |  |  |
|-----------|----------|-------|---|---|
| PACC15015 | 1,5 x 15 | 0,437 | 800   | 36.000  |
| PACC15020 | 1,5 x 20 | 0,547 | 800   | 36.000  |
| PACC15025 | 1,5 x 25 | 0,763 | 500   | 22.500  |
| PACC20025 | 2 x 25   | 1,043 | 500   | 22.500  |
| PACC20030 | 2 x 30   | 1,180 | 500   | 12.000  |
| PACC20035 | 2 x 35   | 1,360 | 500   | 12.000  |
| PACC20040 | 2 x 40   | 1,523 | 500   | 12.000  |
| PACC20045 | 2 x 45   | 1,783 | 500   | 6.000   |
| PACC20050 | 2 x 50   | 1,943 | 500   | 6.000   |



 Blister

| CODE        | SIZE     | €/BAG | PCS BAG | BAGS |
|-------------|----------|-------|---------|------|
| BZPACC15015 | 1,5 x 15 | 1,820 | 75      | 20   |
| BZPACC15020 | 1,5 x 20 | 1,820 | 50      | 20   |
| BZPACC15025 | 1,5 x 25 | 1,820 | 50      | 20   |
| BZPACC20025 | 2 x 25   | 1,820 | 50      | 20   |
| BZPACC20030 | 2 x 30   | 1,820 | 50      | 20   |
| BZPACC20035 | 2 x 35   | 1,820 | 50      | 20   |
| BZPACC20040 | 2 x 40   | 1,820 | 35      | 20   |
| BZPACC20045 | 2 x 45   | 1,820 | 35      | 20   |
| BZPACC20050 | 2 x 50   | 1,820 | 30      | 20   |

 Window box

| CODE       | SIZE     | €/BOX | PCS | BOXES |
|------------|----------|-------|-----|-------|
| VPACC15015 | 1,5 x 15 | 1,897 | 240 | 8     |
| VPACC15020 | 1,5 x 20 | 2,163 | 240 | 8     |
| VPACC15025 | 1,5 x 25 | 1,916 | 150 | 8     |
| VPACC20025 | 2 x 25   | 2,515 | 150 | 8     |
| VPACC20030 | 2 x 30   | 2,752 | 150 | 8     |
| VPACC20035 | 2 x 35   | 3,147 | 150 | 8     |
| VPACC20040 | 2 x 40   | 3,541 | 150 | 8     |
| VPACC20045 | 2 x 45   | 3,933 | 150 | 8     |
| VPACC20050 | 2 x 50   | 4,130 | 150 | 8     |

# PC

## Nails

WOOD

### PA-CX

Brass bit convex head



#### Blister

| CODE        | SIZE     | €/BAG        | PCS BAG | BAGS |
|-------------|----------|--------------|---------|------|
| BZPACX11010 | 1,1 x 10 | <b>2,302</b> | 75      | 20   |
| BZPACX13012 | 1,3 x 12 | <b>2,302</b> | 50      | 20   |
| BZPACX13020 | 1,3 x 20 | <b>2,302</b> | 40      | 20   |
| BZPACX15016 | 1,5 x 16 | <b>2,302</b> | 35      | 20   |
| BZPACX15025 | 1,5 x 25 | <b>2,302</b> | 20      | 20   |
| BZPACX18030 | 1,8 x 30 | <b>2,302</b> | 20      | 20   |

### GM-Z

U nail



WOOD    

| CODE     | SIZE    | €/100        | BAGS | BOXES  |
|----------|---------|--------------|------|--------|
| GMZ08012 | 8 x 12  | <b>0,437</b> | 800  | 36.000 |
| GMZ10016 | 10 x 16 | <b>0,763</b> | 800  | 19.200 |
| GMZ12020 | 12 x 20 | <b>1,307</b> | 800  | 19.200 |
| GMZ15026 | 15 x 26 | <b>2,937</b> | 600  | 7.200  |
| GMZ17030 | 17 x 30 | <b>4,787</b> | 600  | 7.200  |
| GMZ19035 | 19 x 35 | <b>7,290</b> | 400  | 4.800  |

#### Blister

| CODE       | SIZE    | €/BAG        | PCS BAG | BAGS |
|------------|---------|--------------|---------|------|
| BZGMZ08012 | 8 x 12  | <b>1,820</b> | 50      | 20   |
| BZGMZ10016 | 10 x 16 | <b>1,820</b> | 40      | 20   |
| BZGMZ12020 | 12 x 20 | <b>1,820</b> | 50      | 20   |
| BZGMZ15026 | 15 x 26 | <b>1,820</b> | 40      | 20   |
| BZGMZ17030 | 17 x 30 | <b>1,820</b> | 25      | 20   |
| BZGMZ19035 | 19 x 35 | <b>1,820</b> | 15      | 20   |

#### Window box

| CODE      | SIZE    | €/BOX        | PCS | BOXES |
|-----------|---------|--------------|-----|-------|
| VGMZ10016 | 10 x 16 | <b>2,857</b> | 240 | 8     |
| VGMZ15026 | 15 x 26 | <b>7,669</b> | 200 | 8     |
| VGMZ19035 | 19 x 35 | <b>9,047</b> | 100 | 8     |

### CF-B

Easy picture hook



MULTI-MATERIAL    

| CODE  | SIZE   | €/100         | BAGS | BOXES |
|-------|--------|---------------|------|-------|
| CFBFL | Blanco | <b>12,260</b> | 200  | 9.000 |

#### Blister

| CODE    | SIZE   | €/BAG        | PCS BAG | BAGS |
|---------|--------|--------------|---------|------|
| BZCFBFL | Blanco | <b>2,302</b> | 10      | 20   |



#### Window box

| CODE   | SIZE   | €/BOX         | PCS | BOXES |
|--------|--------|---------------|-----|-------|
| VCFBFL | Blanco | <b>23,772</b> | 150 | 8     |

Nails

PC



| CODE   | SIZE    | €/100         |  |  |
|--------|---------|---------------|---|---|
| SVNB01 | Pequeño | <b>11,403</b> | 300   | 3.600   |
| SVNB02 | Grande  | <b>15,543</b> | 200   | 2.400   |

 Blister

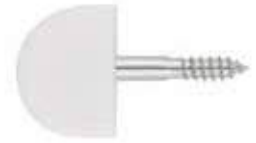
| CODE     | SIZE    | €/BAG        | PCS  | BAGS  |
|----------|---------|--------------|---|--|
| BZSVNB01 | Pequeño | <b>3,071</b> | 10  | 20   |
| BZSVNB02 | Grande  | <b>3,071</b> | 8   | 20   |



 Window box

| CODE    | SIZE    | €/BOX         | PCS  | BOXES  |
|---------|---------|---------------|---|---|
| VSVNB01 | Pequeño | <b>12,806</b> | 90  | 8   |
| VSVNB02 | Grande  | <b>10,067</b> | 50  | 8   |

**SV-NB**

White wing grip screw



| CODE   | SIZE    | €/100         |  |  |
|--------|---------|---------------|---|---|
| SVNM01 | Pequeño | <b>11,403</b> | 300   | 3.600   |
| SVNM02 | Grande  | <b>15,543</b> | 200   | 2.400   |

 Blister

| CODE     | SIZE    | €/BAG        | PCS  | BAGS  |
|----------|---------|--------------|--|---|
| BZSVNM01 | Pequeño | <b>3,071</b> | 10   | 20  |
| BZSVNM02 | Grande  | <b>3,071</b> | 8  | 20  |



 Window box

| CODE    | SIZE    | €/BOX         | PCS  | BOXES  |
|---------|---------|---------------|--|--|
| VSVNM01 | Pequeño | <b>12,806</b> | 90   | 8  |
| VSVNM02 | Grande  | <b>10,067</b> | 50   | 8  |

**SV-NM**

Brown wing grip screw



| CODE  | SIZE   | €/100         |  |  |
|-------|--------|---------------|---|---|
| SVCBL | Blanco | <b>15,543</b> | 300   | 3.600   |
| SVCMA | Marrón | <b>15,543</b> | 300   | 3.600   |

 Blister

| CODE    | SIZE   | €/BAG        | PCS  | BAGS  |
|---------|--------|--------------|---|--|
| BZSVCBL | Blanco | <b>3,071</b> | 10  | 20   |
| BZSVCMA | Marrón | <b>3,071</b> | 10  | 20   |

 Window box

| CODE   | SIZE   | €/BOX         | PCS  | BOXES  |
|--------|--------|---------------|---|---|
| VSVCBL | Blanco | <b>16,955</b> | 90  | 8   |
| VSVCMA | Marrón | <b>16,955</b> | 90  | 8   |

**SV-C**

2 bit wing grip screw





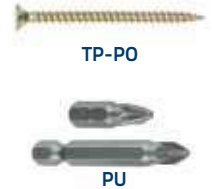
# MULTI-REFERENCE CASES

## PROFESSIONAL CASE: WOOD CHIPBOARD SCREW + BITS



**2.008 pcs.**  
COD. MLTPPOP101

|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| TP-PO<br>3 x 20<br>x300   | TP-PO<br>3 x 25<br>x250   | TP-PO<br>3,5 x 16<br>x300 | TP-PO<br>3,5 x 20<br>x250 |
| TP-PO<br>3,5 x 25<br>x200 | TP-PO<br>3,5 x 30<br>x150 | TP-PO<br>3,5 x 35<br>x130 | TP-PO<br>4 x 30<br>x130   |
| TP-PO<br>4 x 40<br>x80    | TP-PO<br>4 x 50<br>x60    | TP-PO<br>5 x 50<br>x50    | TP-PO<br>5 x 60<br>x50    |
| TP-PO<br>5 x 80<br>x50    |                           |                           | BITS<br>x8                |



### CHARACTERISTICS:

- High quality multi-product case
- Size: 31.2 x 23.8 x 5.1 cm. (Width x Depth x Height)
- Ergonomic and easy to use
- Stackable
- Up to 21 configurable spaces
- Adjustable dividers
- Ribbed lid to avoid screws mixing
- Strong, resistant closing mechanism

| CODE       | CONTENT    | N° PIECES | €/1 pc. |
|------------|------------|-----------|---------|
| MLTPPOP101 | TP-PO+BITS | 2.008     | 60,522  |

## MULTI-PRODUCT PROFESSIONAL CASE



**670 pcs.**  
COD. MLTBOP101

|                          |                        |                        |                          |
|--------------------------|------------------------|------------------------|--------------------------|
| TP-PO<br>5 x 60<br>x30   | TP-PO<br>5 x 70<br>x20 | TP-PO<br>5 x 80<br>x20 | DIN-571<br>6 x 60<br>x25 |
| TP-PO<br>4 x 50<br>x50   | TP-PO<br>5 x 50<br>x50 | TACON<br>Ø 10<br>x15   | DIN-571<br>6 x 50<br>x30 |
| TP-PO<br>3,5 x 25<br>x60 | TP-PO<br>4 x 30<br>x70 | TP-PO<br>4 x 40<br>x70 | TACON<br>Ø 8<br>x30      |
|                          |                        |                        | DIN-571<br>6 x 40<br>x30 |
| TACON<br>Ø 6<br>x150     |                        |                        |                          |



### CHARACTERISTICS:

- High quality multi-product case
- Size: 31.2 x 23.8 x 5.1 cm. (Width x Depth x Height)
- Ergonomic and easy to use
- Stackable
- Up to 21 configurable spaces
- Adjustable dividers
- Ribbed lid to avoid screws mixing
- Strong, resistant closing mechanism

| CODE      | CONTENT                 | N° PIECES | €/1 pc. |
|-----------|-------------------------|-----------|---------|
| MLTBOP101 | TP-PO+DIN-571<br>+TACON | 670       | 59,439  |

# MULTI-REFERENCE CASES

## TRANSPARENT CASE

### CHARACTERISTICS:

- Three compositions adapted to the needs of each customer. (See below).
- Three sizes available for each composition.
- May be hung on shelf. Has a highly resistant hanger.
- Ideal compositions to increase impulse purchases at the point of sale.
- Ribbed lid to avoid screws mixing.

### SIZES



**LARGE**  
29,5 x 18,5 x 4,5 cms.  
(Width x Depth x Height)



**MEDIUM**  
23,5 x 14,5 x 4 cms.  
(Width x Depth x Height)



**SMALL**  
16 x 10,5 x 3,5 cms.  
(Width x Depth x Height)

### COMPOSITIONS:

#### WOOD



TP-PO



PU-PO

| CODE       | CONTENT      | SIZE   | N° PIECES | €/1 pc. |
|------------|--------------|--------|-----------|---------|
| MLTPPOT101 | TP-PO + BITS | SMALL  | 407       | 15,662  |
| MLTPPOT201 | TP-PO + BITS | MEDIUM | 902       | 29,081  |
| MLTPPOT301 | TP-PO + BITS | LARGE  | 1.742     | 46,924  |

#### MULTI-PRODUCT



TACON



AL-RO



AL-HA



AL-HC



TP-PO Z



DIN-571

| CODE      | CONTENT       | SIZE   | N° PIECES | €/1 pc. |
|-----------|---------------|--------|-----------|---------|
| MLMULT101 | MULTI-PRODUCT | SMALL  | 165       | 15,662  |
| MLMULT201 | MULTI-PRODUCT | MEDIUM | 415       | 29,081  |
| MLMULT301 | MULTI-PRODUCT | LARGE  | 1.155     | 46,087  |

#### LAMINATED PLASTERBOARD



AL-HC



AL-RO



AL-HA



TP-PO Z



ANCLA



IN-CO



T4S



TAPLANY



TAPLAME  
+ DIN-7981

| CODE      | CONTENT       | SIZE   | N° PIECES | €/1 pc. |
|-----------|---------------|--------|-----------|---------|
| MLPLAT101 | MULTI-PRODUCT | SMALL  | 130       | 15,662  |
| MLPLAT201 | MULTI-PRODUCT | MEDIUM | 295       | 29,081  |
| MLPLAT301 | MULTI-PRODUCT | LARGE  | 455       | 46,087  |





# WOOD CONNECTORS



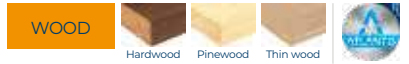



# SO

## Perforated supports

### SO-UO

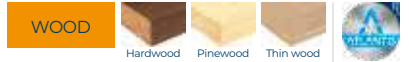
With sealing orifice




| CODE      | SIZE           | €/100          | HOLE NUM | HOLES Ø  | THICKNESS |  |
|-----------|----------------|----------------|----------|----------|-----------|---|
| SOU004110 | 40 x 110 x 80  | <b>516,753</b> | 4/1/22   | 11/7/4,6 | 2         | 25  |
| SOU006100 | 60 x 100 x 80  | <b>520,123</b> | 4/1/22   | 11/7/4,6 | 2         | 25  |
| SOU007125 | 70 x 125 x 80  | <b>574,407</b> | 4/1/28   | 11/7/4,6 | 2         | 25  |
| SOU008120 | 80 x 120 x 80  | <b>588,770</b> | 4/1/28   | 11/7/4,6 | 2         | 25  |
| SOU010140 | 100 x 140 x 80 | <b>700,117</b> | 4/1/34   | 11/7/4,6 | 2         | 10  |

### SO-UR

Variable width with sealing orifice



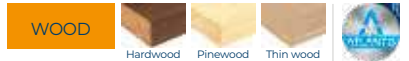
| CODE        | SIZE          | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|-------------|---------------|----------------|----------|---------|-----------|---|
| SOUR30140DR | 26 x 140 x 76 | <b>541,913</b> | 2/20     | 11/4,5  | 2         | 25  |
| SOUR30140IZ | 26 x 140 x 76 | <b>541,913</b> | 2/20     | 11/4,5  | 2         | 25  |


# SC

## Angled brackets for wood connectors

### SC-EI

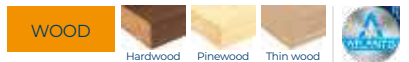
For assembly, perforated with equal holes




| CODE       | SIZE            | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|-----------------|----------------|----------|---------|-----------|---|
| SCEI040402 | 40 x 40 x 20    | <b>32,410</b>  | 6        | 4,5     | 2         | 100   |
| SCEI040404 | 40 x 40 x 40    | <b>59,883</b>  | 8        | 4,6     | 2         | 50  |
| SCEI040406 | 40 x 40 x 60    | <b>111,757</b> | 12       | 4,6     | 2,5       | 50  |
| SCEI050504 | 50 x 50 x 40    | <b>75,647</b>  | 8        | 4,5     | 2         | 50  |
| SCEI060604 | 60 x 60 x 40    | <b>113,743</b> | 12       | 5       | 2,5       | 50  |
| SCEI060606 | 60 x 60 x 60    | <b>156,023</b> | 18       | 5       | 2,5       | 50  |
| SCEI060608 | 60 x 60 x 80    | <b>220,883</b> | 20       | 4,6     | 2,5       | 25  |
| SCEI070704 | 75 x 75 x 40    | <b>117,713</b> | 12       | 4,6     | 2         | 50  |
| SCEI080808 | 80 x 80 x 80    | <b>277,160</b> | 28       | 4,6     | 2,5       | 25  |
| SCEI101004 | 100 x 100 x 40  | <b>153,143</b> | 14       | 4,6     | 2         | 50  |
| SCEI101010 | 100 x 100 x 100 | <b>463,390</b> | 46       | 4,6     | 2,5       | 25  |

### SC-ED

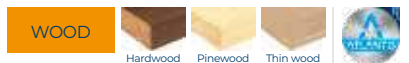
For assembly, perforated with unequal holes




| CODE       | SIZE           | €/100          | HOLE NUM | HOLES Ø  | THICKNESS |  |
|------------|----------------|----------------|----------|----------|-----------|---|
| SCED050503 | 50 x 50 x 35   | <b>80,030</b>  | 2/12     | 11/4,5   | 2,5       | 50  |
| SCED060604 | 60 x 60 x 45   | <b>126,827</b> | 2/12     | 10,4/4,8 | 2,5       | 50  |
| SCED070705 | 70 x 70 x 55   | <b>180,477</b> | 2/20     | 10,4/4,6 | 2,5       | 50  |
| SCED090904 | 90 x 90 x 40   | <b>204,737</b> | 4/16     | 10,4/4,6 | 3         | 50  |
| SCED090906 | 90 x 90 x 65   | <b>272,023</b> | 5/15     | 12,8/4,6 | 2,5       | 25  |
| SCED101009 | 105 x 105 x 90 | <b>542,743</b> | 5/29     | 12,8/4,6 | 3         | 25  |

### SC-LD

For equal holes assembly



| CODE       | SIZE         | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|--------------|----------------|----------|---------|-----------|---|
| SCLD040606 | 60 x 60 x 40 | <b>161,693</b> | 2/13     | 11/5    | 2,5       | 50  |
| SCLD060806 | 60 x 80 x 60 | <b>213,457</b> | 3/18     | 11/5    | 2,5       | 50  |



## Angled brackets for wood connectors

SC

WOOD



| CODE       | SIZE          | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|---------------|----------------|----------|---------|-----------|---|
| SCGA100404 | 40 x 40 x 100 | <b>286,707</b> | 16       | 5       | 2         | 25  |


## SC-GA

Big angle for corners



WOOD



| CODE       | SIZE           | €/100          | HOLE NUM  | HOLES Ø      | THICKNESS |  |
|------------|----------------|----------------|-----------|--------------|-----------|---|
| SCRF070705 | 70 x 70 x 55   | <b>183,763</b> | 2/12      | 2/12         | 2         | 50  |
| SCRF070605 | 77 x 64 x 50   | <b>138,207</b> | 2/10      | 11/4,6       | 2.5       | 50  |
| SCRF090906 | 90 x 90 x 65   | <b>276,133</b> | 2/24      | 11/4,5       | 2.5       | 25  |
| SCRF101009 | 100 x 100 x 90 | <b>520,817</b> | 4/26      | 13,4/4,6     | 3         | 25  |
| SCRF151506 | 150 x 150 x 65 | <b>477,990</b> | 3/13/1/15 | 11/5/11x32/5 | 2.5       | 25  |


## SC-RF

Reinforced



WOOD



| CODE       | SIZE         | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|--------------|----------------|----------|---------|-----------|---|
| SCRG090505 | 50 x 90 x 50 | <b>172,323</b> | 3/15     | 11/4,6  | 2.5       | 50  |
| SCRG090508 | 50 x 90 x 80 | <b>177,150</b> | 5/16     | 13/4,6  | 2.5       | 50  |


## SC-RG

Adjustable



WOOD



| CODE       | SIZE           | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|----------------|----------------|----------|---------|-----------|---|
| SCAS3317DR | 32 x 100 x 170 | <b>141,150</b> | 20       | 5       | 2         | 50  |
| SCAS3317IZ | 32 x 100 x 170 | <b>141,150</b> | 20       | 5       | 2         | 50  |

## SC-AS

Asymmetric, right or left side



WOOD



| CODE       | SIZE          | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|---------------|----------------|----------|---------|-----------|---|
| SCCE200404 | 40 x 200 x 40 | <b>188,503</b> | 18+1     | 4,5/11  | 2         | 10  |

## SC-CE

For concrete

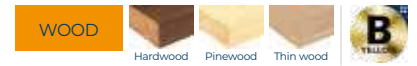


# SC

## Angled brackets for wood connectors

### SC-OB

Yellow zinc-plated for chairs with beveled holes on both sides



| CODE       | SIZE           | €/100   | HOLE NUM | HOLES Ø | THICKNESS |     |
|------------|----------------|---------|----------|---------|-----------|-----|
| SCOB020214 | 25 x 25 x 15   | 16,270  | 4        | 4       | 1.8       | 100 |
| SCOB030314 | 30 x 30 x 15   | 19,747  | 4        | 4,6     | 2         | 100 |
| SCOB040415 | 40 x 40 x 15   | 26,977  | 4        | 4,5     | 1.8       | 100 |
| SCOB050515 | 50 x 50 x 15   | 34,000  | 4        | 5       | 2         | 100 |
| SCOB060618 | 60 x 60 x 16   | 51,247  | 4        | 5       | 2         | 100 |
| SCOB070718 | 75 x 75 x 18   | 56,880  | 4        | 5,2     | 2         | 50  |
| SCOB090920 | 90 x 90 x 20   | 72,520  | 4        | 6,5     | 2         | 50  |
| SCOB101020 | 100 x 100 x 20 | 98,110  | 6        | 5,5     | 2         | 40  |
| SCOB121222 | 125 x 125 x 22 | 146,850 | 6        | 5,5     | 2,5       | 40  |

### SC-OZ

Zinc-plated for chairs with beveled holes on both sides



| CODE       | SIZE           | €/100   | HOLE NUM | HOLES Ø | THICKNESS |    |
|------------|----------------|---------|----------|---------|-----------|----|
| SCOZ151525 | 150 x 150 x 25 | 388,370 | 6        | 6       | 3         | 10 |

### SC-CD Z

Large angle, unequal-sided, zinc plated



| CODE        | SIZE         | €/100   | HOLE NUM | HOLES Ø | THICKNESS |    |
|-------------|--------------|---------|----------|---------|-----------|----|
| SCCDZ402575 | 25 x 40 x 75 | 259,927 | 5        | 4,6     | 2         | 20 |

### SC-CI

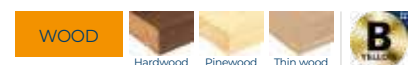
Yellow zinc-plated, large and equal-sided



| CODE       | SIZE         | €/100   | HOLE NUM | HOLES Ø | THICKNESS |     |
|------------|--------------|---------|----------|---------|-----------|-----|
| SCCI303030 | 30 x 30 x 30 | 37,200  | 4        | 4,6     | 2         | 100 |
| SCCI404040 | 40 x 40 x 40 | 60,200  | 4        | 4,6     | 2         | 50  |
| SCCI606060 | 60 x 60 x 60 | 138,993 | 8        | 4,5     | 2         | 50  |

### SC-EM

Yellow zinc-plated to be embedded



| CODE       | SIZE           | €/100   | HOLE NUM | HOLES Ø | THICKNESS |    |
|------------|----------------|---------|----------|---------|-----------|----|
| SCEM081240 | 80 x 120 x 40  | 543,487 | 5        | 4,7     | 1.6       | 20 |
| SCEM101640 | 100 x 160 x 37 | 601,637 | 5        | 4,5     | 2         | 20 |

## Angled brackets for wood connectors

SC

WOOD



| CODE       | SIZE         | €/100          | HOLE NUM | HOLES Ø      | THICKNESS |  |
|------------|--------------|----------------|----------|--------------|-----------|---|
| SCER302525 | 25 x 25 x 30 | <b>121,593</b> | 1/2      | 4,5 x 14/4,5 | 1.2       | 50  |
| SCER392822 | 39 x 28 x 22 | <b>103,980</b> | 1/1      | 4,5 x 16/4,5 | 1         | 50  |


WOOD



| CODE        | SIZE         | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|-------------|--------------|----------------|----------|---------|-----------|---|
| SCGEZ704025 | 25 x 40 x 70 | <b>243,210</b> | 5        | 4,5     | 1.5       | 20  |


WOOD



| CODE       | SIZE         | €/KIT        | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|--------------|--------------|----------|---------|-----------|---|
| SCMX020214 | 25 x 25 x 14 | <b>4,263</b> | 4        | 4       | 1.8       | 10  |
| SCMX030314 | 30 x 30 x 14 | <b>2,459</b> | 4        | 4       | 1.8       | 10  |
| SCMX040415 | 40 x 40 x 15 | <b>3,298</b> | 4        | 4,2     | 1.8       | 10  |
| SCMX050515 | 50 x 50 x 15 | <b>3,889</b> | 4        | 4,6     | 1.8       | 10  |
| SCMX060618 | 60 x 60 x 18 | <b>4,868</b> | 4        | 4,5     | 1.8       | 10  |
| SCMX070718 | 75 x 75 x 18 | <b>8,294</b> | 4        | 5       | 2         | 10  |

WOOD



| CODE       | SIZE          | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|---------------|----------------|----------|---------|-----------|---|
| SCPD107530 | 75 x 100 x 30 | <b>152,930</b> | 5        | 5       | 2.5       | 50  |
| SCPD128035 | 80 x 120 x 35 | <b>262,347</b> | 7        | 4,5     | 3.5       | 25  |

WOOD



| CODE        | SIZE         | €/100          | HOLE NUM | HOLES Ø         | THICKNESS |  |
|-------------|--------------|----------------|----------|-----------------|-----------|---|
| SCREZ357565 | 35 x 75 x 65 | <b>586,073</b> | 3/2/2    | 7/7 x 25/7 x 60 | 3         | 10  |

WOOD



| CODE        | SIZE         | €/100          | HOLE NUM | HOLES Ø | THICKNESS |  |
|-------------|--------------|----------------|----------|---------|-----------|---|
| SCLCZ354030 | 34 x 38 x 30 | <b>145,053</b> | 2        | 4       | 2         | 100   |

## SC-ER

Yellow zinc-plated adjustable to be embedded



## SC-GE Z

Zinc-plated large and adjustable to be embedded



## SC-MX

Yellow zinc-plated for chairs. Pack 10 pcs



## SC-PD

Yellow zinc-plated for posts, unequal-sided



## SC-RE Z

Zinc-plated adjustable



## SC-LC Z

Zinc-plated, L-shaped with welded screw for fence panels

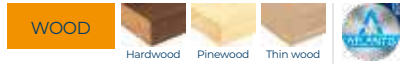


# PT

Supports for wood connectors

## PT-BR

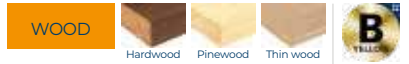
Flat tie



| CODE      | SIZE     | €/100          | HOLE NUM | HOLES Ø | THICKNESS |    |
|-----------|----------|----------------|----------|---------|-----------|----|
| PTBR10035 | 95 x 35  | <b>118,560</b> | 2/12     | 11/4,5  | 2,5       | 50 |
| PTBR13355 | 135 x 55 | <b>257,600</b> | 2/20     | 11/4,5  | 2,5       | 50 |

## PT-EM

Yellow zinc-plated to be embedded



| CODE      | SIZE     | €/100          | HOLE NUM | HOLES Ø | THICKNESS |    |
|-----------|----------|----------------|----------|---------|-----------|----|
| PTEM18040 | 180 x 40 | <b>315,330</b> | 6        | 4,7     | 2         | 20 |

## PT-ET

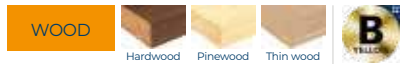
T-shaped



| CODE       | SIZE          | €/100            | HOLE NUM | HOLES Ø | THICKNESS |    |
|------------|---------------|------------------|----------|---------|-----------|----|
| PTET169845 | 160 x 98 x 45 | <b>1.187,643</b> | 4/20     | 11/4,5  | 2,5       | 25 |

## PT-OB

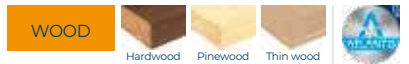
Yellow zinc-plated with beveled holes on both sides



| CODE      | SIZE     | €/100         | HOLE NUM | HOLES Ø | THICKNESS |     |
|-----------|----------|---------------|----------|---------|-----------|-----|
| PTOB05015 | 50 x 15  | <b>52,783</b> | 4        | 4,7     | 1,75      | 100 |
| PTOB06015 | 60 x 15  | <b>60,327</b> | 4        | 4,5     | 1,75      | 100 |
| PTOB08015 | 80 x 15  | <b>67,867</b> | 4        | 4,5     | 1,75      | 100 |
| PTOB10015 | 100 x 15 | <b>75,417</b> | 4        | 5       | 1,75      | 100 |
| PTOB12020 | 120 x 20 | <b>82,910</b> | 4        | 5,5     | 1,75      | 100 |

## PT-TT

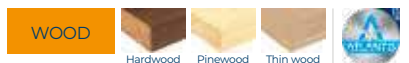
T-shaped



| CODE       | SIZE          | €/100          | HOLE NUM | HOLES Ø | THICKNESS |    |
|------------|---------------|----------------|----------|---------|-----------|----|
| PTTT030716 | 70 x 35 x 16  | <b>146,540</b> | 6        | 4,3     | 1,5       | 50 |
| PTTT111430 | 140 x 80 x 30 | <b>323,333</b> | 6        | 5       | 2         | 25 |

## PT-UN

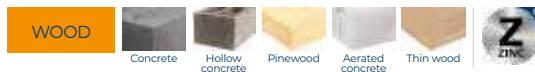
Universal assembly




| CODE      | SIZE     | €/100          | HOLE NUM | HOLES Ø | THICKNESS |     |     |
|-----------|----------|----------------|----------|---------|-----------|-----|-----|
| PTUN12038 | 120 x 40 | <b>128,180</b> | 10       | 11/4,5  | 2         | 50  | -   |
| PTUN16038 | 160 x 40 | <b>184,460</b> | 12       | 11/4,5  | 2         | 100 | 400 |
| PTUN20060 | 200 x 60 | <b>272,920</b> | 2/26     | 11/4,5  | 2         | 25  | -   |
| PTUN20080 | 200 x 80 | <b>301,637</b> | 2/38     | 11/4,5  | 2         | 25  | 75  |
| PTUN24060 | 240 x 60 | <b>379,397</b> | 2/32     | 11/4,5  | 2         | 25  | -   |
| PTUN24080 | 240 x 80 | <b>467,537</b> | 2/46     | 11/4,5  | 2         | 25  | 50  |

Post anchors for wood connectors

AP




| CODE    | SIZE                  | €/100            | HOLE NUM | THICKNESS |  |
|---------|-----------------------|------------------|----------|-----------|---|
| APAR070 | 70 x 70 x 100 x 100   | <b>4.645,680</b> | 8        | 5         | 1   |
| APAR150 | 150 x 150 x 100 x 100 | <b>5.762,203</b> | 8        | 5         | 1   |

**AP-AR**

Height-adjustable



| CODE    | SIZE                | €/100            | HOLE NUM | HOLES Ø | THICKNESS |  |
|---------|---------------------|------------------|----------|---------|-----------|---|
| APAT071 | 71 x 200 x 60 x 50  | <b>2.444,747</b> | 6        | 10,5    | 4         | 1   |
| APAT091 | 91 x 200 x 60 x 50  | <b>2.734,590</b> | 6        | 10,5    | 4         | 1   |
| APAT101 | 101 x 200 x 60 x 50 | <b>2.828,937</b> | 6        | 10,5    | 4         | 1   |

**AP-AT**

U-shaped to be screwed directly or into already installed rods



| CODE       | SIZE                | €/100            | HOLE NUM | HOLES Ø | THICKNESS |  |
|------------|---------------------|------------------|----------|---------|-----------|---|
| APFL801020 | 80 x 100 x 200 x 60 | <b>1.952,283</b> | 3        | 11      | 4         | 1   |

**AP-FL**

L-shaped welded with corrugated steel bar



| CODE     | SIZE                    | €/100            | HOLE NUM | HOLES Ø | THICKNESS |  |
|----------|-------------------------|------------------|----------|---------|-----------|---|
| APFUZ100 | 60-140 x 115 x 100 x 70 | <b>4.589,583</b> | 3/4      | 11/7    | 4,5       | 1   |

**AP-FU Z**

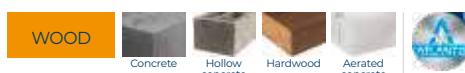
Zinc-plated, U-shaped with adjustable width




| CODE    | SIZE                 | €/100            | HOLE NUM | HOLES Ø | THICKNESS |  |
|---------|----------------------|------------------|----------|---------|-----------|---|
| APPD100 | 100 x 100 x 150 x 43 | <b>4.768,943</b> | 8        | 10,5    | 5         | 1   |

**AP-PD**

Unequal



| CODE    | SIZE                        | €/100            | HOLE NUM | HOLES Ø | THICKNESS |  |
|---------|-----------------------------|------------------|----------|---------|-----------|---|
| APPG070 | 70 x 90 x 70 x 80 x 90      | <b>4.179,150</b> | 8        | 8,5     | 5         | 1   |
| APPG100 | 100 x 100 x 100 x 100 x 100 | <b>4.986,943</b> | 8        | 10,5    | 5         | 1   |

**AP-PG**

Equal






# AP Post anchors for wood connectors

## AP-PT

U-shaped welded with corrugated steel bar



| CODE    | SIZE                 | €/100            | HOLE NUM | HOLES Ø | THICKNESS |  |
|---------|----------------------|------------------|----------|---------|-----------|---|
| APPT071 | 71 x 100 x 200 x 60  | <b>2.315,680</b> | 6        | 10,5    | 4         | 1   |
| APPT091 | 91 x 100 x 200 x 60  | <b>2.427,020</b> | 6        | 10,5    | 4         | 1   |
| APPT101 | 101 x 100 x 200 x 60 | <b>2.478,900</b> | 6        | 10,5    | 4         | 1   |

## AP-UE Z

U-shaped to be embedded with adjustable width




| CODE     | SIZE                    | €/100            | HOLE NUM | HOLES Ø | THICKNESS |  |
|----------|-------------------------|------------------|----------|---------|-----------|---|
| APUEZ200 | 71-131 x 110 x 200 x 70 | <b>4.713,003</b> | 6        | 11-7    | 4,5       | 1   |

## AP-SB

Screw in sleeve




| CODE   | SIZE          | €/100            | HOLE NUM | HOLES Ø | THICKNESS | MIN. ORDER QTY. |  |
|--------|---------------|------------------|----------|---------|-----------|-----------------|---|
| APSB71 | 71 x 71 x 150 | <b>1.695,567</b> | 2        | 4 x 11  | 1,8       | 2               | 1   |
| APSB91 | 91 x 91 x 150 | <b>2.052,693</b> | 2        | 4 x 11  | 1,8       | 2               | 1   |

## AP-EN

Drive in ground sleeve




| CODE   | SIZE          | €/100            | HOLE NUM | HOLES Ø | THICKNESS | MIN. ORDER QTY. |  |
|--------|---------------|------------------|----------|---------|-----------|-----------------|---|
| APEN71 | 71 x 71 x 750 | <b>2.319,027</b> | 2        | 4 x 11  | 1,8       | 2               | 1   |
| APEN91 | 91 x 91 x 750 | <b>2.608,130</b> | 2        | 4 x 11  | 1,8       | 2               | 1   |

# VM-PF Assorted wood connectors ATLANTIS C3-M

## VM-PF

Hot dip galvanized anchor nails



| CODE    | SIZE   | €/100         |  |
|---------|--------|---------------|---|
| VMPF050 | 4 x 50 | <b>27,130</b> | 200   |



# STANDARDIZED NUTS AND BOLTS



# DIN-933

Hexagonal head bolt 8.8. Full thread

## DIN-933

Zinc-plated

METAL



Available in different coatings. Ask for price and delivery time.

| CODE      | SIZE     | €/100   |    |     |        | CODE      | SIZE      | €/100   |    |     |       |
|-----------|----------|---------|----|-----|--------|-----------|-----------|---------|----|-----|-------|
| D93304008 | M4 x 8   | 4,243   | 7  | 500 | 22.500 | D93310100 | M10 x 100 | 115,800 | 17 | 50  | 300   |
| D93304010 | M4 x 10  | 4,427   | 7  | 500 | 22.500 | D93312020 | M12 x 20  | 47,577  | 19 | 100 | 1.200 |
| D93304012 | M4 x 12  | 4,527   | 7  | 500 | 12.000 | D93312025 | M12 x 25  | 49,013  | 19 | 100 | 600   |
| D93304016 | M4 x 16  | 4,827   | 7  | 500 | 12.000 | D93312030 | M12 x 30  | 53,997  | 19 | 100 | 600   |
| D93304020 | M4 x 20  | 5,760   | 7  | 500 | 12.000 | D93312035 | M12 x 35  | 60,640  | 19 | 100 | 600   |
| D93304025 | M4 x 25  | 6,457   | 7  | 500 | 6.000  | D93312040 | M12 x 40  | 64,323  | 19 | 100 | 600   |
| D93304030 | M4 x 30  | 7,380   | 7  | 500 | 6.000  | D93312045 | M12 x 45  | 73,980  | 19 | 100 | 600   |
| D93304035 | M4 x 35  | 7,753   | 7  | 250 | 6.000  | D93312050 | M12 x 50  | 76,330  | 19 | 100 | 400   |
| D93304040 | M4 x 40  | 9,590   | 7  | 250 | 3.000  | D93312060 | M12 x 60  | 82,647  | 19 | 100 | 400   |
| D93304045 | M4 x 45  | 11,123  | 7  | 250 | 3.000  | D93312070 | M12 x 70  | 99,870  | 19 | 100 | 400   |
| D93304050 | M4 x 50  | 12,657  | 7  | 250 | 3.000  | D93312080 | M12 x 80  | 122,733 | 19 | 50  | 300   |
| D93304060 | M4 x 60  | 16,563  | 7  | 250 | 3.000  | D93312090 | M12 x 90  | 151,483 | 19 | 50  | 300   |
| D93305010 | M5 x 10  | 5,427   | 8  | 500 | 12.000 | D93312100 | M12 x 100 | 171,197 | 19 | 25  | 300   |
| D93305012 | M5 x 12  | 5,733   | 8  | 500 | 12.000 | D93312110 | M12 x 110 | 205,023 | 19 | 25  | 300   |
| D93305016 | M5 x 16  | 6,043   | 8  | 500 | 6.000  | D93312120 | M12 x 120 | 221,763 | 19 | 25  | 300   |
| D93305020 | M5 x 20  | 6,737   | 8  | 500 | 6.000  | D93314030 | M14 x 30  | 99,547  | 22 | 50  | 400   |
| D93305025 | M5 x 25  | 7,113   | 8  | 500 | 6.000  | D93314035 | M14 x 35  | 106,413 | 22 | 50  | 300   |
| D93305030 | M5 x 30  | 8,560   | 8  | 500 | 6.000  | D93314040 | M14 x 40  | 113,883 | 22 | 50  | 300   |
| D93305035 | M5 x 35  | 9,240   | 8  | 250 | 3.000  | D93314045 | M14 x 45  | 126,037 | 22 | 50  | 300   |
| D93305040 | M5 x 40  | 9,970   | 8  | 250 | 3.000  | D93314050 | M14 x 50  | 136,573 | 22 | 50  | 300   |
| D93305045 | M5 x 45  | 10,567  | 8  | 250 | 3.000  | D93314060 | M14 x 60  | 153,897 | 22 | 50  | 300   |
| D93305050 | M5 x 50  | 11,433  | 8  | 250 | 3.000  | D93314070 | M14 x 70  | 173,743 | 22 | 50  | 300   |
| D93305060 | M5 x 60  | 12,880  | 8  | 250 | 1.500  | D93314080 | M14 x 80  | 189,140 | 22 | 25  | 150   |
| D93305070 | M5 x 70  | 14,200  | 8  | 250 | 3.000  | D93314090 | M14 x 90  | 184,803 | 22 | 25  | 150   |
| D93306010 | M6 x 10  | 6,637   | 10 | 250 | 6.000  | D93314100 | M14 x 100 | 207,813 | 22 | 25  | 150   |
| D93306012 | M6 x 12  | 7,290   | 10 | 250 | 6.000  | D93314110 | M14 x 110 | 241,240 | 22 | 25  | 150   |
| D93306016 | M6 x 16  | 7,823   | 10 | 250 | 6.000  | D93314120 | M14 x 120 | 275,027 | 22 | 25  | 150   |
| D93306020 | M6 x 20  | 8,987   | 10 | 250 | 3.000  | D93316030 | M16 x 30  | 118,870 | 24 | 50  | 300   |
| D93306025 | M6 x 25  | 9,877   | 10 | 250 | 3.000  | D93316035 | M16 x 35  | 125,263 | 24 | 50  | 300   |
| D93306030 | M6 x 30  | 11,377  | 10 | 250 | 3.000  | D93316040 | M16 x 40  | 129,150 | 24 | 50  | 300   |
| D93306035 | M6 x 35  | 12,833  | 10 | 250 | 3.000  | D93316045 | M16 x 45  | 167,427 | 24 | 50  | 300   |
| D93306040 | M6 x 40  | 14,300  | 10 | 250 | 3.000  | D93316050 | M16 x 50  | 167,930 | 24 | 50  | 300   |
| D93306045 | M6 x 45  | 15,757  | 10 | 250 | 1.500  | D93316060 | M16 x 60  | 169,953 | 24 | 50  | 200   |
| D93306050 | M6 x 50  | 17,190  | 10 | 250 | 1.500  | D93316070 | M16 x 70  | 221,223 | 24 | 25  | 150   |
| D93306060 | M6 x 60  | 20,110  | 10 | 100 | 1.200  | D93316080 | M16 x 80  | 241,600 | 24 | 25  | 150   |
| D93306065 | M6 x 65  | 21,250  | 10 | 100 | 600    | D93316090 | M16 x 90  | 256,983 | 24 | 25  | 150   |
| D93306070 | M6 x 70  | 23,810  | 10 | 100 | 1.200  | D93316100 | M16 x 100 | 262,900 | 24 | 25  | 150   |
| D93308016 | M8 x 16  | 16,000  | 13 | 200 | 2.400  | D93316110 | M16 x 110 | 367,873 | 24 | 25  | 150   |
| D93308020 | M8 x 20  | 17,653  | 13 | 200 | 1.600  | D93316120 | M16 x 120 | 387,117 | 24 | 25  | 150   |
| D93308025 | M8 x 25  | 20,447  | 13 | 200 | 1.600  | D93318030 | M18 x 30  | 216,437 | 27 | 25  | 150   |
| D93308030 | M8 x 30  | 23,613  | 13 | 200 | 1.200  | D93318035 | M18 x 35  | 223,090 | 27 | 25  | 300   |
| D93308035 | M8 x 35  | 24,573  | 13 | 200 | 1.200  | D93318040 | M18 x 40  | 235,460 | 27 | 25  | 300   |
| D93308040 | M8 x 40  | 23,150  | 13 | 200 | 1.200  | D93318045 | M18 x 45  | 244,827 | 27 | 25  | 300   |
| D93308045 | M8 x 45  | 26,873  | 13 | 200 | 1.200  | D93318050 | M18 x 50  | 254,663 | 27 | 25  | 150   |
| D93308050 | M8 x 50  | 29,343  | 13 | 200 | 800    | D93318060 | M18 x 60  | 281,383 | 27 | 25  | 150   |
| D93308060 | M8 x 60  | 35,230  | 13 | 200 | 800    | D93318070 | M18 x 70  | 339,837 | 27 | 25  | 150   |
| D93308070 | M8 x 70  | 44,510  | 13 | 200 | 800    | D93318080 | M18 x 80  | 365,717 | 27 | 25  | 150   |
| D93308080 | M8 x 80  | 57,713  | 13 | 100 | 600    | D93318090 | M18 x 90  | 476,770 | 27 | 25  | 150   |
| D93308090 | M8 x 90  | 72,587  | 13 | 100 | 600    | D93318100 | M18 x 100 | 535,213 | 27 | 25  | 150   |
| D93308100 | M8 x 100 | 79,800  | 13 | 100 | 400    | D93318110 | M18 x 110 | 601,423 | 27 | 25  | 100   |
| D93308110 | M8 x 110 | 155,517 | 13 | 100 | 400    | D93318120 | M18 x 120 | 667,587 | 27 | 25  | 100   |
| D93308120 | M8 x 120 | 156,480 | 13 | 100 | 400    | D93320030 | M20 x 30  | 220,283 | 30 | 25  | 150   |
| D93310016 | M10 x 16 | 30,080  | 17 | 200 | 1.200  | D93320035 | M20 x 35  | 227,127 | 30 | 25  | 150   |
| D93310020 | M10 x 20 | 30,427  | 17 | 200 | 1.200  | D93320040 | M20 x 40  | 279,093 | 30 | 25  | 150   |
| D93310025 | M10 x 25 | 35,360  | 17 | 200 | 1.200  | D93320045 | M20 x 45  | 253,583 | 30 | 25  | 150   |
| D93310030 | M10 x 30 | 40,060  | 17 | 200 | 800    | D93320050 | M20 x 50  | 260,847 | 30 | 25  | 150   |
| D93310035 | M10 x 35 | 42,810  | 17 | 200 | 1.200  | D93320060 | M20 x 60  | 320,830 | 30 | 25  | 150   |
| D93310040 | M10 x 40 | 44,110  | 17 | 200 | 800    | D93320070 | M20 x 70  | 355,060 | 30 | 25  | 100   |
| D93310045 | M10 x 45 | 49,897  | 17 | 200 | 800    | D93320080 | M20 x 80  | 389,610 | 30 | 10  | 120   |
| D93310050 | M10 x 50 | 53,173  | 17 | 200 | 800    | D93320090 | M20 x 90  | 476,770 | 30 | 10  | 60    |
| D93310060 | M10 x 60 | 59,230  | 17 | 100 | 600    | D93320100 | M20 x 100 | 537,380 | 30 | 10  | 60    |
| D93310070 | M10 x 70 | 67,337  | 17 | 100 | 400    | D93320110 | M20 x 110 | 740,817 | 30 | 10  | 60    |
| D93310080 | M10 x 80 | 78,417  | 17 | 100 | 400    | D93320120 | M20 x 120 | 773,163 | 30 | 10  | 60    |
| D93310090 | M10 x 90 | 105,270 | 17 | 50  | 300    |           |           |         |    |     |       |



## Hexagonal head bolt 8.8. Full thread

## DIN-933



## Blister

| CODE      | SIZE     | €/BAG | PCS<br>B | BAGS |
|-----------|----------|-------|----------|------|
| BZ3Z04008 | M4 x 8   | 1,820 | 6        | 20   |
| BZ3Z04010 | M4 x 10  | 1,820 | 6        | 20   |
| BZ3Z04012 | M4 x 12  | 1,820 | 6        | 20   |
| BZ3Z04016 | M4 x 16  | 1,820 | 6        | 20   |
| BZ3Z04020 | M4 x 20  | 1,820 | 6        | 20   |
| BZ3Z04025 | M4 x 25  | 1,820 | 6        | 20   |
| BZ3Z04030 | M4 x 30  | 1,820 | 6        | 20   |
| BZ3Z04035 | M4 x 35  | 1,820 | 6        | 20   |
| BZ3Z04040 | M4 x 40  | 1,820 | 6        | 20   |
| BZ3Z04045 | M4 x 45  | 1,820 | 6        | 20   |
| BZ3Z04050 | M4 x 50  | 1,820 | 6        | 20   |
| BZ3Z04060 | M4 x 60  | 1,820 | 6        | 20   |
| BZ3Z05010 | M5 x 10  | 1,820 | 6        | 20   |
| BZ3Z05012 | M5 x 12  | 1,820 | 6        | 20   |
| BZ3Z05015 | M5 x 15  | 1,820 | 6        | 20   |
| BZ3Z05016 | M5 x 16  | 1,820 | 6        | 20   |
| BZ3Z05020 | M5 x 20  | 1,820 | 6        | 20   |
| BZ3Z05025 | M5 x 25  | 1,820 | 6        | 20   |
| BZ3Z05030 | M5 x 30  | 1,820 | 6        | 20   |
| BZ3Z05035 | M5 x 35  | 1,820 | 6        | 20   |
| BZ3Z05040 | M5 x 40  | 1,820 | 6        | 20   |
| BZ3Z05045 | M5 x 45  | 1,820 | 6        | 20   |
| BZ3Z05050 | M5 x 50  | 1,820 | 6        | 20   |
| BZ3Z05060 | M5 x 60  | 1,820 | 6        | 20   |
| BZ3Z06016 | M6 x 16  | 1,820 | 6        | 20   |
| BZ3Z06020 | M6 x 20  | 1,820 | 6        | 20   |
| BZ3Z06025 | M6 x 25  | 1,820 | 6        | 20   |
| BZ3Z06030 | M6 x 30  | 1,820 | 6        | 20   |
| BZ3Z06040 | M6 x 40  | 1,820 | 6        | 20   |
| BZ3Z06050 | M6 x 50  | 1,820 | 6        | 20   |
| BZ3Z06060 | M6 x 60  | 1,820 | 4        | 20   |
| BZ3Z06070 | M6 x 70  | 1,820 | 4        | 20   |
| BZ3Z08016 | M8 x 16  | 1,820 | 4        | 20   |
| BZ3Z08020 | M8 x 20  | 1,820 | 4        | 20   |
| BZ3Z08025 | M8 x 25  | 1,820 | 4        | 20   |
| BZ3Z08030 | M8 x 30  | 1,820 | 4        | 20   |
| BZ3Z08040 | M8 x 40  | 1,820 | 4        | 20   |
| BZ3Z08050 | M8 x 50  | 1,820 | 4        | 20   |
| BZ3Z08060 | M8 x 60  | 1,820 | 4        | 20   |
| BZ3Z08070 | M8 x 70  | 1,820 | 4        | 20   |
| BZ3Z08080 | M8 x 80  | 1,820 | 4        | 20   |
| BZ3Z10030 | M10 x 30 | 1,820 | 2        | 20   |
| BZ3Z10040 | M10 x 40 | 1,820 | 2        | 20   |
| BZ3Z10050 | M10 x 50 | 1,820 | 2        | 20   |



## Window box

| CODE       | SIZE     | €/BOX | PCS<br>B | BOXES |
|------------|----------|-------|----------|-------|
| VD93304008 | M4 x 8   | 5,479 | 100      | 8     |
| VD93304010 | M4 x 10  | 5,710 | 100      | 8     |
| VD93304012 | M4 x 12  | 5,830 | 100      | 8     |
| VD93304016 | M4 x 16  | 6,223 | 100      | 8     |
| VD93304020 | M4 x 20  | 7,166 | 100      | 8     |
| VD93304025 | M4 x 25  | 6,660 | 80       | 8     |
| VD93304030 | M4 x 30  | 7,068 | 80       | 8     |
| VD93304040 | M4 x 40  | 5,741 | 50       | 8     |
| VD93304050 | M4 x 50  | 6,289 | 40       | 8     |
| VD93304060 | M4 x 60  | 9,310 | 40       | 8     |
| VD93305010 | M5 x 10  | 6,501 | 100      | 8     |
| VD93305012 | M5 x 12  | 5,491 | 80       | 8     |
| VD93305016 | M5 x 16  | 6,011 | 80       | 8     |
| VD93305020 | M5 x 20  | 5,864 | 70       | 8     |
| VD93305025 | M5 x 25  | 5,900 | 60       | 8     |
| VD93305030 | M5 x 30  | 4,728 | 40       | 8     |
| VD93305040 | M5 x 40  | 4,532 | 30       | 8     |
| VD93305050 | M5 x 50  | 3,848 | 15       | 8     |
| VD93305060 | M5 x 60  | 4,054 | 15       | 8     |
| VD93305070 | M5 x 70  | 3,727 | 10       | 8     |
| VD93306016 | M6 x 16  | 4,933 | 50       | 8     |
| VD93306020 | M6 x 20  | 5,593 | 50       | 8     |
| VD93306025 | M6 x 25  | 5,532 | 45       | 8     |
| VD93306030 | M6 x 30  | 5,655 | 40       | 8     |
| VD93306040 | M6 x 40  | 5,332 | 30       | 8     |
| VD93306050 | M6 x 50  | 3,848 | 15       | 8     |
| VD93306060 | M6 x 60  | 4,329 | 15       | 8     |
| VD93306070 | M6 x 70  | 4,933 | 15       | 8     |
| VD93308016 | M8 x 16  | 8,087 | 40       | 8     |
| VD93308020 | M8 x 20  | 7,878 | 35       | 8     |
| VD93308025 | M8 x 25  | 7,626 | 30       | 8     |
| VD93308030 | M8 x 30  | 7,344 | 25       | 8     |
| VD93308040 | M8 x 40  | 5,843 | 20       | 8     |
| VD93308050 | M8 x 50  | 5,558 | 15       | 8     |
| VD93308060 | M8 x 60  | 6,669 | 15       | 8     |
| VD93308070 | M8 x 70  | 8,300 | 15       | 8     |
| VD93308080 | M8 x 80  | 7,175 | 10       | 8     |
| VD93308100 | M8 x 100 | 9,554 | 10       | 8     |
| VD93310020 | M10 x 20 | 5,814 | 15       | 8     |
| VD93310030 | M10 x 30 | 7,474 | 15       | 8     |
| VD93310040 | M10 x 40 | 5,484 | 10       | 8     |
| VD93310050 | M10 x 50 | 6,612 | 10       | 8     |
| VD93310060 | M10 x 60 | 7,365 | 10       | 8     |
| VD93310070 | M10 x 70 | 8,370 | 10       | 8     |
| VD93310080 | M10 x 80 | 9,747 | 10       | 8     |
| VD93312030 | M12 x 30 | 6,707 | 10       | 8     |
| VD93312040 | M12 x 40 | 6,558 | 8        | 8     |
| VD93312050 | M12 x 50 | 5,693 | 6        | 8     |
| VD93312060 | M12 x 60 | 6,324 | 6        | 8     |
| VD93312070 | M12 x 70 | 7,451 | 6        | 8     |
| VD93312080 | M12 x 80 | 9,155 | 6        | 8     |

## DIN-933

Zinc-plated



Available in different coatings. Ask for price and delivery time.



# DIN-933

Hexagonal head bolt 8.8. Full thread

## DIN-933 A2

STAINLESS STEEL



A2 Stainless steel



| CODE        | SIZE     | €/100   |    |     |        | CODE        | SIZE      | €/100   |    |     |     |
|-------------|----------|---------|----|-----|--------|-------------|-----------|---------|----|-----|-----|
| D933IM04010 | M4 x 10  | 10,247  | 7  | 500 | 12.000 | D933IM10040 | M10 x 40  | 94,637  | 17 | 200 | -   |
| D933IM04016 | M4 x 16  | 12,270  | 7  | 500 | 12.000 | D933IM10050 | M10 x 50  | 112,740 | 17 | 200 | -   |
| D933IM04020 | M4 x 20  | 14,120  | 7  | 500 | 8.000  | D933IM10060 | M10 x 60  | 129,103 | 17 | 100 | 600 |
| D933IM04025 | M4 x 25  | 15,227  | 7  | 500 | 8.000  | D933IM10070 | M10 x 70  | 145,627 | 17 | 100 | 400 |
| D933IM04030 | M4 x 30  | 17,443  | 7  | 500 | 6.000  | D933IM10080 | M10 x 80  | 171,350 | 17 | 100 | 400 |
| D933IM04035 | M4 x 35  | 21,410  | 7  | 250 | 6.000  | D933IM10090 | M10 x 90  | 193,050 | 17 | 50  | 300 |
| D933IM04040 | M4 x 40  | 23,807  | 7  | 250 | 6.000  | D933IM10100 | M10 x 100 | 217,823 | 17 | 50  | 300 |
| D933IM05010 | M5 x 10  | 10,703  | 8  | 500 | 8.000  | D933IM12020 | M12 x 20  | 117,413 | 19 | 100 | 600 |
| D933IM05016 | M5 x 16  | 12,550  | 8  | 500 | -      | D933IM12030 | M12 x 30  | 122,127 | 19 | 100 | 600 |
| D933IM05020 | M5 x 20  | 14,210  | 8  | 500 | 6.000  | D933IM12040 | M12 x 40  | 137,637 | 19 | 100 | 400 |
| D933IM05025 | M5 x 25  | 16,333  | 8  | 500 | 4.000  | D933IM12050 | M12 x 50  | 158,837 | 19 | 100 | 400 |
| D933IM05030 | M5 x 30  | 18,917  | 8  | 500 | 4.000  | D933IM12060 | M12 x 60  | 181,040 | 19 | 100 | 400 |
| D933IM05035 | M5 x 35  | 20,950  | 8  | 250 | 3.000  | D933IM12070 | M12 x 70  | 203,477 | 19 | 100 | -   |
| D933IM05040 | M5 x 40  | 23,530  | 8  | 250 | 3.000  | D933IM12080 | M12 x 80  | 254,237 | 19 | 50  | 300 |
| D933IM05050 | M5 x 50  | 28,793  | 8  | 250 | 3.000  | D933IM12090 | M12 x 90  | 278,347 | 19 | 50  | 300 |
| D933IM06010 | M6 x 10  | 17,957  | 10 | 250 | 6.000  | D933IM12100 | M12 x 100 | 302,463 | 19 | 25  | 150 |
| D933IM06016 | M6 x 16  | 19,027  | 10 | 250 | 4.000  | D933IM14030 | M14 x 30  | 230,133 | 22 | 50  | 300 |
| D933IM06020 | M6 x 20  | 22,040  | 10 | 250 | 4.000  | D933IM14040 | M14 x 40  | 252,050 | 22 | 50  | 300 |
| D933IM06025 | M6 x 25  | 22,900  | 10 | 250 | 3.000  | D933IM14050 | M14 x 50  | 287,120 | 22 | 50  | 300 |
| D933IM06030 | M6 x 30  | 26,607  | 10 | 250 | 3.000  | D933IM14060 | M14 x 60  | 326,570 | 22 | 50  | 200 |
| D933IM06035 | M6 x 35  | 30,083  | 10 | 250 | 2.000  | D933IM14070 | M14 x 70  | 363,830 | 22 | 50  | 200 |
| D933IM06040 | M6 x 40  | 33,253  | 10 | 250 | 2.000  | D933IM14080 | M14 x 80  | 390,803 | 22 | 25  | 150 |
| D933IM06050 | M6 x 50  | 39,467  | 10 | 250 | 1.500  | D933IM14100 | M14 x 100 | 536,020 | 22 | 25  | 150 |
| D933IM08016 | M8 x 16  | 35,107  | 13 | 200 | 1.600  | D933IM16030 | M16 x 30  | 254,127 | 24 | 50  | 300 |
| D933IM08020 | M8 x 20  | 38,053  | 13 | 200 | 1.600  | D933IM16040 | M16 x 40  | 263,850 | 24 | 50  | 200 |
| D933IM08025 | M8 x 25  | 42,957  | 13 | 200 | 1.600  | D933IM16050 | M16 x 50  | 300,910 | 24 | 50  | 200 |
| D933IM08030 | M8 x 30  | 47,760  | 13 | 200 | 1.200  | D933IM16060 | M16 x 60  | 342,337 | 24 | 50  | 200 |
| D933IM08035 | M8 x 35  | 52,550  | 13 | 200 | 1.200  | D933IM16070 | M16 x 70  | 381,587 | 24 | 25  | 150 |
| D933IM08040 | M8 x 40  | 58,007  | 13 | 200 | 1.200  | D933IM16080 | M16 x 80  | 423,013 | 24 | 25  | 150 |
| D933IM08050 | M8 x 50  | 69,797  | 13 | 200 | 800    | D933IM16090 | M16 x 90  | 499,193 | 24 | 25  | 150 |
| D933IM08060 | M8 x 60  | 79,660  | 13 | 200 | 800    | D933IM16100 | M16 x 100 | 540,750 | 24 | 25  | 100 |
| D933IM08070 | M8 x 70  | 95,460  | 13 | 200 | 800    | D933IM18030 | M18 x 30  | 508,053 | 27 | 25  | 100 |
| D933IM08080 | M8 x 80  | 109,107 | 13 | 100 | 600    | D933IM18040 | M18 x 40  | 537,343 | 27 | 25  | 200 |
| D933IM08090 | M8 x 90  | 120,883 | 13 | 100 | 600    | D933IM18050 | M18 x 50  | 586,980 | 27 | 25  | 150 |
| D933IM08100 | M8 x 100 | 135,633 | 13 | 100 | 600    | D933IM18060 | M18 x 60  | 656,030 | 27 | 25  | 150 |
| D933IM10020 | M10 x 20 | 71,523  | 17 | 200 | 800    | D933IM18070 | M18 x 70  | 729,387 | 27 | 25  | 100 |
| D933IM10025 | M10 x 25 | 75,013  | 17 | 200 | 800    | D933IM18080 | M18 x 80  | 798,460 | 27 | 25  | 100 |
| D933IM10030 | M10 x 30 | 82,200  | 17 | 200 | 800    | D933IM18090 | M18 x 90  | 867,520 | 27 | 25  | 100 |
| D933IM10035 | M10 x 35 | 89,617  | 17 | 200 | 800    | D933IM18100 | M18 x 100 | 936,573 | 27 | 25  | 100 |

### Blister

| CODE      | SIZE     | €/BAG | PCS | BAGS |
|-----------|----------|-------|-----|------|
| BZ3I04010 | M4 x 10  | 2,302 | 6   | 20   |
| BZ3I04016 | M4 x 16  | 2,302 | 6   | 20   |
| BZ3I04020 | M4 x 20  | 2,302 | 6   | 20   |
| BZ3I04030 | M4 x 30  | 2,302 | 6   | 20   |
| BZ3I04040 | M4 x 40  | 2,302 | 6   | 20   |
| BZ3I05010 | M5 x 10  | 2,302 | 6   | 20   |
| BZ3I05016 | M5 x 16  | 2,302 | 6   | 20   |
| BZ3I05020 | M5 x 20  | 2,302 | 6   | 20   |
| BZ3I05030 | M5 x 30  | 2,302 | 6   | 20   |
| BZ3I05040 | M5 x 40  | 2,302 | 6   | 20   |
| BZ3I05050 | M5 x 50  | 2,302 | 6   | 20   |
| BZ3I06016 | M6 x 16  | 2,302 | 6   | 20   |
| BZ3I06020 | M6 x 20  | 2,302 | 6   | 20   |
| BZ3I06025 | M6 x 25  | 2,302 | 6   | 20   |
| BZ3I06030 | M6 x 30  | 2,302 | 6   | 20   |
| BZ3I06040 | M6 x 40  | 2,302 | 6   | 20   |
| BZ3I06050 | M6 x 50  | 2,302 | 6   | 20   |
| BZ3I08016 | M8 x 16  | 2,302 | 4   | 20   |
| BZ3I08020 | M8 x 20  | 2,302 | 4   | 20   |
| BZ3I08025 | M8 x 25  | 2,302 | 4   | 20   |
| BZ3I08030 | M8 x 30  | 2,302 | 4   | 20   |
| BZ3I08040 | M8 x 40  | 2,302 | 4   | 20   |
| BZ3I08050 | M8 x 50  | 2,302 | 4   | 20   |
| BZ3I08060 | M8 x 60  | 2,302 | 4   | 20   |
| BZ3I10020 | M10 x 20 | 2,302 | 2   | 20   |
| BZ3I10030 | M10 x 30 | 2,302 | 2   | 20   |
| BZ3I10040 | M10 x 40 | 2,302 | 2   | 20   |

### Window box

| CODE        | SIZE     | €/BOX  | PCS | BOXES |
|-------------|----------|--------|-----|-------|
| VD933I04010 | M4 x 10  | 5,617  | 40  | 8     |
| VD933I04016 | M4 x 16  | 6,729  | 40  | 8     |
| VD933I04020 | M4 x 20  | 7,460  | 40  | 8     |
| VD933I04030 | M4 x 30  | 7,175  | 30  | 8     |
| VD933I04040 | M4 x 40  | 7,859  | 25  | 8     |
| VD933I05010 | M5 x 10  | 5,874  | 40  | 8     |
| VD933I05016 | M5 x 16  | 6,885  | 40  | 8     |
| VD933I05020 | M5 x 20  | 7,797  | 40  | 8     |
| VD933I05030 | M5 x 30  | 5,187  | 20  | 8     |
| VD933I05040 | M5 x 40  | 6,453  | 20  | 8     |
| VD933I05050 | M5 x 50  | 4,145  | 10  | 8     |
| VD933I06010 | M6 x 10  | 7,388  | 30  | 8     |
| VD933I06016 | M6 x 16  | 7,536  | 30  | 8     |
| VD933I06020 | M6 x 20  | 8,733  | 30  | 8     |
| VD933I06025 | M6 x 25  | 7,559  | 25  | 8     |
| VD933I06030 | M6 x 30  | 8,785  | 25  | 8     |
| VD933I06040 | M6 x 40  | 6,843  | 15  | 8     |
| VD933I06050 | M6 x 50  | 5,412  | 10  | 8     |
| VD933I08016 | M8 x 16  | 9,630  | 20  | 8     |
| VD933I08020 | M8 x 20  | 10,434 | 20  | 8     |
| VD933I08025 | M8 x 25  | 11,780 | 20  | 8     |
| VD933I08030 | M8 x 30  | 9,826  | 15  | 8     |
| VD933I08040 | M8 x 40  | 7,954  | 10  | 8     |
| VD933I08050 | M8 x 50  | 9,569  | 10  | 8     |
| VD933I08060 | M8 x 60  | 10,925 | 10  | 8     |
| VD933I10020 | M10 x 20 | 9,807  | 10  | 8     |
| VD933I10030 | M10 x 30 | 11,274 | 10  | 8     |

### Window box

| CODE        | SIZE     | €/BOX  | PCS | BOXES |
|-------------|----------|--------|-----|-------|
| VD933I10040 | M10 x 40 | 12,977 | 10  | 8     |
| VD933I10050 | M10 x 50 | 15,459 | 10  | 8     |
| VD933I10060 | M10 x 60 | 17,701 | 10  | 8     |





## Hexagonal head bolt 8.8. Half thread

DIN-931

METAL



Available in different coatings. Ask for price and delivery time.

| CODE       | SIZE      | €/100   |    |     |       |
|------------|-----------|---------|----|-----|-------|
| D931806030 | M6 x 30   | 11,740  | 10 | 250 | 3.000 |
| D931806035 | M6 x 35   | 13,910  | 10 | 250 | 2.000 |
| D931806040 | M6 x 40   | 14,923  | 10 | 250 | 2.000 |
| D931806045 | M6 x 45   | 16,803  | 10 | 250 | 2.000 |
| D931806050 | M6 x 50   | 17,827  | 10 | 250 | 1.500 |
| D931806060 | M6 x 60   | 21,673  | 10 | 100 | 1.200 |
| D931806070 | M6 x 70   | 27,630  | 10 | 100 | 1.200 |
| D931808030 | M8 x 30   | 24,117  | 13 | 200 | 1.200 |
| D931808035 | M8 x 35   | 25,523  | 13 | 200 | 1.200 |
| D931808040 | M8 x 40   | 27,190  | 13 | 200 | 1.200 |
| D931808045 | M8 x 45   | 30,033  | 13 | 200 | 1.200 |
| D931808050 | M8 x 50   | 31,873  | 13 | 250 | 1.000 |
| D931808060 | M8 x 60   | 37,543  | 13 | 250 | -     |
| D931808070 | M8 x 70   | 46,037  | 13 | 250 | -     |
| D931808080 | M8 x 80   | 60,650  | 13 | 100 | 600   |
| D931808090 | M8 x 90   | 75,610  | 13 | 100 | 600   |
| D931808100 | M8 x 100  | 81,433  | 13 | 100 | 600   |
| D931808110 | M8 x 110  | 87,283  | 13 | 100 | 400   |
| D931808120 | M8 x 120  | 96,770  | 13 | 100 | 400   |
| D931808130 | M8 x 130  | 106,370 | 13 | 50  | 400   |
| D931808140 | M8 x 140  | 109,977 | 13 | 50  | 400   |
| D931808150 | M8 x 150  | 116,910 | 13 | 50  | 400   |
| D931810035 | M10 x 35  | 45,940  | 17 | 200 | 800   |
| D931810040 | M10 x 40  | 47,287  | 17 | 200 | -     |
| D931810045 | M10 x 45  | 53,280  | 17 | 200 | -     |
| D931810050 | M10 x 50  | 62,203  | 17 | 200 | -     |
| D931810060 | M10 x 60  | 63,307  | 17 | 100 | 600   |
| D931810070 | M10 x 70  | 70,617  | 17 | 100 | 400   |
| D931810080 | M10 x 80  | 83,240  | 17 | 100 | 400   |
| D931810090 | M10 x 90  | 97,367  | 17 | 50  | 300   |
| D931810100 | M10 x 100 | 108,147 | 17 | 50  | 300   |
| D931810110 | M10 x 110 | 121,923 | 17 | 50  | 300   |
| D931810120 | M10 x 120 | 131,540 | 17 | 50  | 300   |
| D931810130 | M10 x 130 | 142,357 | 17 | 50  | 200   |
| D931810140 | M10 x 140 | 145,830 | 17 | 50  | 200   |
| D931810150 | M10 x 150 | 158,307 | 17 | 25  | 200   |
| D931812040 | M12 x 40  | 67,427  | 19 | 100 | 400   |
| D931812045 | M12 x 45  | 77,087  | 19 | 100 | 400   |
| D931812050 | M12 x 50  | 84,683  | 19 | 100 | 400   |
| D931812060 | M12 x 60  | 87,700  | 19 | 100 | 400   |
| D931812070 | M12 x 70  | 102,953 | 19 | 100 | 400   |
| D931812080 | M12 x 80  | 124,810 | 19 | 50  | 300   |
| D931812090 | M12 x 90  | 129,183 | 19 | 50  | 200   |
| D931812100 | M12 x 100 | 141,290 | 19 | 25  | 200   |
| D931812110 | M12 x 110 | 165,127 | 19 | 25  | 200   |
| D931812120 | M12 x 120 | 177,593 | 19 | 25  | 200   |

| CODE       | SIZE      | €/100   |    |    |     |
|------------|-----------|---------|----|----|-----|
| D931812130 | M12 x 130 | 196,080 | 19 | 25 | 200 |
| D931812140 | M12 x 140 | 205,827 | 19 | 25 | -   |
| D931812150 | M12 x 150 | 215,917 | 19 | 10 | 120 |
| D931814050 | M14 x 50  | 138,117 | 22 | 50 | 300 |
| D931814060 | M14 x 60  | 156,860 | 22 | 50 | 200 |
| D931814070 | M14 x 70  | 175,953 | 22 | 50 | 200 |
| D931814080 | M14 x 80  | 192,650 | 22 | 25 | 150 |
| D931814090 | M14 x 90  | 230,743 | 22 | 25 | 150 |
| D931814100 | M14 x 100 | 266,343 | 22 | 25 | 150 |
| D931814110 | M14 x 110 | 292,273 | 22 | 25 | 150 |
| D931814120 | M14 x 120 | 297,997 | 22 | 25 | 150 |
| D931814130 | M14 x 130 | 304,577 | 22 | 25 | 100 |
| D931814140 | M14 x 140 | 311,653 | 22 | 25 | 100 |
| D931814150 | M14 x 150 | 329,407 | 22 | 10 | 120 |
| D931816050 | M16 x 50  | 172,183 | 24 | 50 | 200 |
| D931816060 | M16 x 60  | 175,793 | 24 | 50 | 200 |
| D931816070 | M16 x 70  | 183,717 | 24 | 25 | 150 |
| D931816080 | M16 x 80  | 204,897 | 24 | 25 | 150 |
| D931816090 | M16 x 90  | 226,013 | 24 | 25 | 150 |
| D931816100 | M16 x 100 | 268,803 | 24 | 25 | 100 |
| D931816110 | M16 x 110 | 296,147 | 24 | 25 | 100 |
| D931816120 | M16 x 120 | 316,593 | 24 | 25 | 100 |
| D931816130 | M16 x 130 | 333,997 | 24 | 25 | 100 |
| D931816140 | M16 x 140 | 343,457 | 24 | 25 | 100 |
| D931816150 | M16 x 150 | 380,527 | 24 | 10 | 80  |
| D931818060 | M18 x 60  | 315,007 | 27 | 25 | 150 |
| D931818070 | M18 x 70  | 328,123 | 27 | 25 | 100 |
| D931818080 | M18 x 80  | 370,637 | 27 | 25 | 100 |
| D931818090 | M18 x 90  | 380,013 | 27 | 25 | 100 |
| D931818100 | M18 x 100 | 414,430 | 27 | 25 | 100 |
| D931818110 | M18 x 110 | 439,517 | 27 | 10 | 80  |
| D931818120 | M18 x 120 | 496,293 | 27 | 10 | 80  |
| D931818130 | M18 x 130 | 655,727 | 27 | 10 | 80  |
| D931818140 | M18 x 140 | 699,947 | 27 | 10 | 80  |
| D931818150 | M18 x 150 | 744,373 | 27 | 10 | -   |
| D931820060 | M20 x 60  | 325,337 | 30 | 25 | 100 |
| D931820070 | M20 x 70  | 360,340 | 30 | 25 | 100 |
| D931820080 | M20 x 80  | 397,157 | 30 | 25 | 100 |
| D931820090 | M20 x 90  | 481,990 | 30 | 25 | 100 |
| D931820100 | M20 x 100 | 554,363 | 30 | 25 | -   |
| D931820110 | M20 x 110 | 622,013 | 30 | 10 | -   |
| D931820120 | M20 x 120 | 671,787 | 30 | 10 | -   |
| D931820130 | M20 x 130 | 718,783 | 30 | 10 | -   |
| D931820140 | M20 x 140 | 765,517 | 30 | 10 | 60  |
| D931820150 | M20 x 150 | 814,787 | 30 | 5  | 30  |



Blister

| CODE       | SIZE    | €/BAG | PCS | BAGS |
|------------|---------|-------|-----|------|
| BZ93106030 | M6 x 30 | 1,820 | 6   | 20   |
| BZ93106040 | M6 x 40 | 1,820 | 6   | 20   |
| BZ93106050 | M6 x 50 | 1,820 | 6   | 20   |
| BZ93106060 | M6 x 60 | 1,820 | 4   | 20   |
| BZ93106070 | M6 x 70 | 1,820 | 4   | 20   |
| BZ93108030 | M8 x 30 | 1,820 | 4   | 20   |
| BZ93108040 | M8 x 40 | 1,820 | 4   | 20   |
| BZ93108050 | M8 x 50 | 1,820 | 4   | 20   |
| BZ93108060 | M8 x 60 | 1,820 | 4   | 20   |
| BZ93108070 | M8 x 70 | 1,820 | 4   | 20   |
| BZ93108080 | M8 x 80 | 1,820 | 4   | 20   |



Window box

| CODE       | SIZE     | €/BOX  | PCS | BOXES |
|------------|----------|--------|-----|-------|
| VD93106030 | M6 x 30  | 6,429  | 40  | 8     |
| VD93106040 | M6 x 40  | 6,128  | 30  | 8     |
| VD93106050 | M6 x 50  | 4,063  | 15  | 8     |
| VD93106060 | M6 x 60  | 4,544  | 15  | 8     |
| VD93106070 | M6 x 70  | 5,406  | 15  | 8     |
| VD93108030 | M8 x 30  | 7,707  | 25  | 8     |
| VD93108040 | M8 x 40  | 6,700  | 20  | 8     |
| VD93108050 | M8 x 50  | 5,890  | 15  | 8     |
| VD93108060 | M8 x 60  | 6,938  | 15  | 8     |
| VD93108070 | M8 x 70  | 8,509  | 15  | 8     |
| VD93108080 | M8 x 80  | 7,474  | 10  | 8     |
| VD93110040 | M10 x 40 | 6,185  | 10  | 8     |
| VD93110050 | M10 x 50 | 7,667  | 10  | 8     |
| VD93110060 | M10 x 60 | 7,802  | 10  | 8     |
| VD93110070 | M10 x 70 | 8,699  | 10  | 8     |
| VD93110080 | M10 x 80 | 10,253 | 10  | 8     |
| VD93112050 | M12 x 50 | 6,261  | 6   | 8     |
| VD93112060 | M12 x 60 | 6,764  | 6   | 8     |
| VD93112070 | M12 x 70 | 7,610  | 6   | 8     |
| VD93112080 | M12 x 80 | 9,225  | 6   | 8     |

# DIN-6921

Hexagonal flanged bolt with serration 8.8

## DIN-6921

Zinc plated

METAL



Available in different coatings. Ask for price and delivery time.

| CODE       | SIZE     | €/100          |    |  |     |       |
|------------|----------|----------------|----|--|-----|-------|
| D692105010 | M5 x 10  | <b>7,767</b>   | 8  |  | 500 | 6.000 |
| D692105012 | M5 x 12  | <b>8,457</b>   | 8  |  | 500 | 4.000 |
| D692105016 | M5 x 16  | <b>9,473</b>   | 8  |  | 500 | 4.000 |
| D692105020 | M5 x 20  | <b>9,720</b>   | 8  |  | 500 | 3.000 |
| D692105025 | M5 x 25  | <b>11,227</b>  | 8  |  | 500 | 3.000 |
| D692105030 | M5 x 30  | <b>13,110</b>  | 8  |  | 500 | 3.000 |
| D692106010 | M6 x 10  | <b>11,477</b>  | 10 |  | 250 | -     |
| D692106012 | M6 x 12  | <b>11,823</b>  | 10 |  | 250 | 3.000 |
| D692106016 | M6 x 16  | <b>12,870</b>  | 10 |  | 250 | 3.000 |
| D692106020 | M6 x 20  | <b>14,187</b>  | 10 |  | 250 | 3.000 |
| D692106025 | M6 x 25  | <b>15,860</b>  | 10 |  | 250 | 2.000 |
| D692106030 | M6 x 30  | <b>18,403</b>  | 10 |  | 250 | 2.000 |
| D692106035 | M6 x 35  | <b>18,793</b>  | 10 |  | 250 | 1.500 |
| D692108012 | M8 x 12  | <b>22,787</b>  | 13 |  | 200 | 1.600 |
| D692108016 | M8 x 16  | <b>23,690</b>  | 13 |  | 200 | 1.600 |
| D692108020 | M8 x 20  | <b>24,200</b>  | 13 |  | 200 | -     |
| D692108025 | M8 x 25  | <b>28,190</b>  | 13 |  | 200 | -     |
| D692108030 | M8 x 30  | <b>31,327</b>  | 13 |  | 200 | 1.200 |
| D692108035 | M8 x 35  | <b>34,860</b>  | 13 |  | 200 | 1.200 |
| D692108040 | M8 x 40  | <b>36,253</b>  | 13 |  | 200 | 800   |
| D692108050 | M8 x 50  | <b>39,547</b>  | 13 |  | 200 | 800   |
| D692108060 | M8 x 60  | <b>41,583</b>  | 13 |  | 200 | 600   |
| D692110020 | M10 x 20 | <b>43,480</b>  | 15 |  | 200 | 800   |
| D692110025 | M10 x 25 | <b>46,527</b>  | 15 |  | 200 | 800   |
| D692110030 | M10 x 30 | <b>50,637</b>  | 15 |  | 200 | 800   |
| D692110035 | M10 x 35 | <b>53,970</b>  | 15 |  | 200 | -     |
| D692110040 | M10 x 40 | <b>59,903</b>  | 15 |  | 200 | -     |
| D692110050 | M10 x 50 | <b>66,800</b>  | 15 |  | 200 | -     |
| D692112025 | M12 x 25 | <b>70,243</b>  | 16 |  | 100 | 400   |
| D692112030 | M12 x 30 | <b>75,533</b>  | 16 |  | 100 | 400   |
| D692112035 | M12 x 35 | <b>82,393</b>  | 16 |  | 100 | 400   |
| D692112040 | M12 x 40 | <b>86,730</b>  | 16 |  | 100 | 400   |
| D692112045 | M12 x 45 | <b>97,750</b>  | 16 |  | 100 | 400   |
| D692112050 | M12 x 50 | <b>100,760</b> | 16 |  | 100 | -     |
| D692112060 | M12 x 60 | <b>114,780</b> | 16 |  | 100 | -     |

## DIN-6921 A2

Screw DIN-6921. Hexagonal flanged bolt with serration. Stainless steel A2

METAL



| CODE      | SIZE    | €/100          | INSTALLATION KEY |  |  |     |       |
|-----------|---------|----------------|------------------|--|--|-----|-------|
| 692108020 | M8 x 20 | <b>50,523</b>  | 13               |  |  | 200 | 2.400 |
| 692108050 | M8 x 50 | <b>80,817</b>  | 13               |  |  | 100 | 600   |
| 692108070 | M8 x 70 | <b>117,303</b> | 13               |  |  | 100 | 600   |



## Hexagon socket head screw 8.8

## DIN-912

METAL



| CODE      | SIZE    | €/100  |   |     |        |
|-----------|---------|--------|---|-----|--------|
| D91204008 | M4 x 8  | 5,910  | 3 | 500 | 22.500 |
| D91204010 | M4 x 10 | 6,023  | 3 | 500 | 12.000 |
| D91204012 | M4 x 12 | 7,657  | 3 | 500 | 12.000 |
| D91204016 | M4 x 16 | 7,917  | 3 | 500 | 12.000 |
| D91204020 | M4 x 20 | 8,117  | 3 | 500 | 6.000  |
| D91204025 | M4 x 25 | 9,320  | 3 | 500 | 6.000  |
| D91204030 | M4 x 30 | 10,713 | 3 | 500 | 6.000  |
| D91204035 | M4 x 35 | 11,793 | 3 | 200 | 4.800  |
| D91204040 | M4 x 40 | 13,083 | 3 | 200 | 2.400  |
| D91204045 | M4 x 45 | 14,097 | 3 | 200 | 2.400  |
| D91204050 | M4 x 50 | 15,020 | 3 | 200 | 2.400  |
| D91205008 | M5 x 8  | 7,140  | 4 | 500 | 12.000 |
| D91205010 | M5 x 10 | 7,283  | 4 | 500 | 12.000 |
| D91205012 | M5 x 12 | 7,313  | 4 | 500 | 6.000  |
| D91205016 | M5 x 16 | 7,457  | 4 | 500 | 6.000  |
| D91205020 | M5 x 20 | 7,800  | 4 | 500 | 6.000  |
| D91205025 | M5 x 25 | 9,870  | 4 | 500 | 6.000  |
| D91205030 | M5 x 30 | 11,263 | 4 | 500 | 6.000  |
| D91205035 | M5 x 35 | 12,150 | 4 | 200 | 4.800  |
| D91205040 | M5 x 40 | 13,487 | 4 | 200 | 2.400  |
| D91205045 | M5 x 45 | 14,307 | 4 | 200 | 2.400  |
| D91205050 | M5 x 50 | 15,157 | 4 | 200 | 2.400  |
| D91206010 | M6 x 10 | 10,167 | 5 | 200 | 4.800  |
| D91206012 | M6 x 12 | 10,437 | 5 | 200 | 4.800  |
| D91206016 | M6 x 16 | 10,787 | 5 | 200 | 4.800  |
| D91206020 | M6 x 20 | 11,390 | 5 | 200 | 2.400  |
| D91206025 | M6 x 25 | 15,627 | 5 | 200 | 2.400  |
| D91206030 | M6 x 30 | 16,410 | 5 | 200 | 2.400  |
| D91206035 | M6 x 35 | 16,580 | 5 | 200 | 2.400  |
| D91206040 | M6 x 40 | 17,280 | 5 | 200 | 2.400  |
| D91206045 | M6 x 45 | 17,967 | 5 | 200 | 2.400  |
| D91206050 | M6 x 50 | 19,073 | 5 | 200 | 2.400  |
| D91206060 | M6 x 60 | 20,737 | 5 | 200 | 1.200  |
| D91208010 | M8 x 10 | 17,917 | 6 | 100 | 2.400  |
| D91208012 | M8 x 12 | 18,617 | 6 | 100 | 2.400  |
| D91208016 | M8 x 16 | 18,997 | 6 | 100 | 2.400  |
| D91208020 | M8 x 20 | 20,067 | 6 | 100 | 2.400  |

| CODE      | SIZE      | €/100   |    |     |       |
|-----------|-----------|---------|----|-----|-------|
| D91208025 | M8 x 25   | 21,907  | 6  | 100 | 1.200 |
| D91208030 | M8 x 30   | 26,280  | 6  | 100 | 1.200 |
| D91208035 | M8 x 35   | 34,277  | 6  | 100 | 1.200 |
| D91208040 | M8 x 40   | 41,493  | 6  | 100 | 1.200 |
| D91208045 | M8 x 45   | 42,133  | 6  | 100 | 1.200 |
| D91208050 | M8 x 50   | 43,387  | 6  | 100 | 1.200 |
| D91208060 | M8 x 60   | 45,340  | 6  | 100 | 1.200 |
| D91208070 | M8 x 70   | 47,163  | 6  | 100 | 600   |
| D91208080 | M8 x 80   | 51,880  | 6  | 100 | 600   |
| D91210016 | M10 x 16  | 41,620  | 8  | 100 | 1.200 |
| D91210020 | M10 x 20  | 50,900  | 8  | 100 | 1.200 |
| D91210025 | M10 x 25  | 54,103  | 8  | 100 | 1.200 |
| D91210030 | M10 x 30  | 56,663  | 8  | 100 | 1.200 |
| D91210035 | M10 x 35  | 64,093  | 8  | 100 | 600   |
| D91210040 | M10 x 40  | 69,740  | 8  | 100 | 600   |
| D91210045 | M10 x 45  | 76,823  | 8  | 100 | 600   |
| D91210050 | M10 x 50  | 78,960  | 8  | 100 | 600   |
| D91210060 | M10 x 60  | 89,980  | 8  | 100 | 600   |
| D91210070 | M10 x 70  | 97,743  | 8  | 100 | 600   |
| D91210080 | M10 x 80  | 102,620 | 8  | 50  | 600   |
| D91210090 | M10 x 90  | 104,417 | 8  | 50  | 300   |
| D91210100 | M10 x 100 | 111,123 | 8  | 50  | 300   |
| D91212020 | M12 x 20  | 72,243  | 10 | 100 | 600   |
| D91212025 | M12 x 25  | 73,677  | 10 | 100 | 600   |
| D91212030 | M12 x 30  | 77,100  | 10 | 100 | 600   |
| D91212035 | M12 x 35  | 81,667  | 10 | 100 | 600   |
| D91212040 | M12 x 40  | 85,340  | 10 | 100 | 600   |
| D91212045 | M12 x 45  | 90,490  | 10 | 100 | 600   |
| D91212050 | M12 x 50  | 96,627  | 10 | 50  | 600   |
| D91212060 | M12 x 60  | 109,727 | 10 | 50  | 300   |
| D91212070 | M12 x 70  | 130,780 | 10 | 50  | 300   |
| D91212080 | M12 x 80  | 144,007 | 10 | 50  | 300   |
| D91212090 | M12 x 90  | 158,413 | 10 | 50  | 300   |
| D91212100 | M12 x 100 | 177,420 | 10 | 50  | 300   |
| D91212110 | M12 x 110 | 198,707 | 10 | 50  | 300   |
| D91212120 | M12 x 120 | 215,597 | 10 | 50  | 300   |



Available in different coatings. Ask for price and delivery time.

## Window box

| CODE       | SIZE    | €/BOX  | PCS | BOXES |
|------------|---------|--------|-----|-------|
| VD91204010 | M4 x 10 | 12,081 | 150 | 8     |
| VD91204012 | M4 x 12 | 13,212 | 125 | 8     |
| VD91204020 | M4 x 20 | 10,979 | 100 | 8     |
| VD91204030 | M4 x 30 | 6,073  | 40  | 8     |
| VD91204040 | M4 x 40 | 4,306  | 20  | 8     |
| VD91204050 | M4 x 50 | 6,410  | 20  | 8     |
| VD91205010 | M5 x 10 | 10,457 | 100 | 8     |
| VD91205012 | M5 x 12 | 10,567 | 100 | 8     |
| VD91205016 | M5 x 16 | 8,942  | 90  | 8     |
| VD91205020 | M5 x 20 | 7,588  | 70  | 8     |
| VD91205025 | M5 x 25 | 8,011  | 60  | 8     |
| VD91205030 | M5 x 30 | 6,812  | 40  | 8     |
| VD91205040 | M5 x 40 | 4,487  | 20  | 8     |
| VD91205050 | M5 x 50 | 4,836  | 20  | 8     |
| VD91206010 | M6 x 10 | 7,116  | 50  | 8     |
| VD91206012 | M6 x 12 | 6,916  | 50  | 8     |
| VD91206016 | M6 x 16 | 6,790  | 50  | 8     |
| VD91206020 | M6 x 20 | 7,698  | 50  | 8     |
| VD91206025 | M6 x 25 | 11,640 | 50  | 8     |
| VD91206030 | M6 x 30 | 8,258  | 35  | 8     |
| VD91206040 | M6 x 40 | 7,840  | 30  | 8     |
| VD91206050 | M6 x 50 | 4,700  | 15  | 8     |
| VD91206060 | M6 x 60 | 5,089  | 15  | 8     |
| VD91208010 | M8 x 10 | 7,688  | 30  | 8     |
| VD91208016 | M8 x 16 | 7,783  | 30  | 8     |
| VD91208020 | M8 x 20 | 7,907  | 30  | 8     |
| VD91208030 | M8 x 30 | 7,113  | 20  | 8     |
| VD91208040 | M8 x 40 | 11,270 | 20  | 8     |
| VD91208050 | M8 x 50 | 6,128  | 10  | 8     |
| VD91208060 | M8 x 60 | 6,419  | 10  | 8     |



# DIN-603/93

Round head screw with square neck and hexagonal nut

METAL



| CODE       | SIZE     | €/100  |     |     |       | CODE       | SIZE      | €/100   |      |     |     |
|------------|----------|--------|-----|-----|-------|------------|-----------|---------|------|-----|-----|
| D603905016 | M5 x 16  | 9,477  | PC5 | 500 | 6.000 | D603908120 | M8 x 120  | 73,010  | PC8  | 50  | 300 |
| D603905020 | M5 x 20  | 9,770  | PC5 | 500 | 3.000 | D603908130 | M8 x 130  | 80,977  | PC8  | 50  | 300 |
| D603905025 | M5 x 25  | 10,990 | PC5 | 500 | 3.000 | D603908140 | M8 x 140  | 92,500  | PC8  | 50  | 300 |
| D603905030 | M5 x 30  | 11,147 | PC5 | 500 | 3.000 | D603908150 | M8 x 150  | 100,157 | PC8  | 50  | 300 |
| D603905035 | M5 x 35  | 14,460 | PC5 | 200 | 2.400 | D603910020 | M10 x 20  | 47,463  | PC10 | 100 | 600 |
| D603905040 | M5 x 40  | 14,730 | PC5 | 200 | 2.400 | D603910025 | M10 x 25  | 48,187  | PC10 | 100 | 600 |
| D603905045 | M5 x 45  | 17,057 | PC5 | 200 | 2.400 | D603910030 | M10 x 30  | 62,927  | PC10 | 100 | 600 |
| D603905050 | M5 x 50  | 18,893 | PC5 | 200 | 2.400 | D603910035 | M10 x 35  | 65,507  | PC10 | 100 | 600 |
| D603905060 | M5 x 60  | 21,977 | PC5 | 100 | 1.200 | D603910040 | M10 x 40  | 66,580  | PC10 | 100 | 600 |
| D603905070 | M5 x 70  | 24,607 | PC5 | 100 | 1.200 | D603910045 | M10 x 45  | 71,097  | PC10 | 100 | 600 |
| D603905080 | M5 x 80  | 29,500 | PC5 | 100 | 1.200 | D603910050 | M10 x 50  | 72,177  | PC10 | 100 | 600 |
| D603906016 | M6 x 16  | 13,887 | PC5 | 200 | 2.400 | D603910060 | M10 x 60  | 86,113  | PC10 | 50  | 300 |
| D603906020 | M6 x 20  | 14,110 | PC6 | 200 | 2.400 | D603910070 | M10 x 70  | 93,427  | PC10 | 50  | 300 |
| D603906025 | M6 x 25  | 15,043 | PC6 | 200 | 2.400 | D603910080 | M10 x 80  | 105,857 | PC10 | 50  | 300 |
| D603906030 | M6 x 30  | 15,793 | PC6 | 200 | 1.200 | D603910090 | M10 x 90  | 115,133 | PC10 | 50  | 300 |
| D603906035 | M6 x 35  | 17,557 | PC6 | 200 | 2.400 | D603910100 | M10 x 100 | 120,810 | PC10 | 50  | 300 |
| D603906040 | M6 x 40  | 17,790 | PC6 | 200 | 1.200 | D603910110 | M10 x 110 | 136,400 | PC10 | 25  | 300 |
| D603906045 | M6 x 45  | 20,800 | PC6 | 200 | 1.200 | D603910120 | M10 x 120 | 144,740 | PC10 | 25  | 300 |
| D603906050 | M6 x 50  | 22,010 | PC6 | 200 | 1.200 | D603910130 | M10 x 130 | 150,527 | PC10 | 25  | 150 |
| D603906060 | M6 x 60  | 25,353 | PC6 | 100 | 1.200 | D603910140 | M10 x 140 | 168,507 | PC10 | 25  | 150 |
| D603906070 | M6 x 70  | 30,543 | PC6 | 100 | 1.200 | D603910150 | M10 x 150 | 183,467 | PC10 | 25  | 150 |
| D603906080 | M6 x 80  | 30,903 | PC6 | 100 | 600   | D603910160 | M10 x 160 | 191,900 | PC10 | 25  | 100 |
| D603906090 | M6 x 90  | 48,223 | PC6 | 100 | 600   | D603910180 | M10 x 180 | 223,217 | PC10 | 25  | 100 |
| D603906100 | M6 x 100 | 51,757 | PC6 | 100 | 600   | D603910200 | M10 x 200 | 235,853 | PC10 | 25  | 75  |
| D603906110 | M6 x 110 | 59,517 | PC6 | 100 | 600   | D603912030 | M12 x 30  | 102,073 | PC12 | 50  | 300 |
| D603906120 | M6 x 120 | 65,050 | PC6 | 100 | 600   | D603912035 | M12 x 35  | 107,530 | PC12 | 50  | 300 |
| D603906130 | M6 x 130 | 71,553 | PC6 | 100 | 600   | D603912040 | M12 x 40  | 119,623 | PC12 | 50  | 300 |
| D603906140 | M6 x 140 | 80,833 | PC6 | 100 | 600   | D603912045 | M12 x 45  | 129,063 | PC12 | 50  | 300 |
| D603906150 | M6 x 150 | 88,443 | PC6 | 100 | 600   | D603912050 | M12 x 50  | 135,790 | PC12 | 50  | 300 |
| D603908016 | M8 x 16  | 25,887 | PC8 | 200 | 1.200 | D603912060 | M12 x 60  | 147,947 | PC12 | 25  | 300 |
| D603908020 | M8 x 20  | 27,313 | PC8 | 200 | 1.200 | D603912070 | M12 x 70  | 201,190 | PC12 | 25  | 300 |
| D603908025 | M8 x 25  | 27,467 | PC8 | 200 | 1.200 | D603912080 | M12 x 80  | 207,240 | PC12 | 25  | 150 |
| D603908030 | M8 x 30  | 29,170 | PC8 | 200 | 1.200 | D603912100 | M12 x 100 | 216,533 | PC12 | 25  | 150 |
| D603908035 | M8 x 35  | 31,373 | PC8 | 200 | 1.200 | D603912120 | M12 x 120 | 223,173 | PC12 | 25  | 150 |
| D603908040 | M8 x 40  | 32,620 | PC8 | 200 | 1.200 | D603912140 | M12 x 140 | 238,953 | PC12 | 25  | 150 |
| D603908045 | M8 x 45  | 37,243 | PC8 | 200 | 1.200 | D603912160 | M12 x 160 | 273,173 | PC12 | 25  | 100 |
| D603908050 | M8 x 50  | 40,943 | PC8 | 100 | 1.200 | D603912180 | M12 x 180 | 306,037 | PC12 | 25  | 100 |
| D603908060 | M8 x 60  | 45,903 | PC8 | 100 | 600   | D603912200 | M12 x 200 | 335,860 | PC12 | 10  | 40  |
| D603908070 | M8 x 70  | 49,010 | PC8 | 100 | 600   | D603912220 | M12 x 220 | 409,643 | PC12 | 10  | 30  |
| D603908080 | M8 x 80  | 56,643 | PC8 | 100 | 400   | D603912240 | M12 x 240 | 457,257 | PC12 | 10  | 30  |
| D603908090 | M8 x 90  | 69,697 | PC8 | 100 | 600   | D603912260 | M12 x 260 | 509,767 | PC12 | 10  | 20  |
| D603908100 | M8 x 100 | 71,213 | PC8 | 100 | 600   | D603912280 | M12 x 280 | 557,113 | PC12 | 10  | 20  |
| D603908110 | M8 x 110 | 72,583 | PC8 | 50  | 300   | D603912300 | M12 x 300 | 618,520 | PC12 | 10  | 20  |

Blister

| CODE        | SIZE     | €/BAG | PCS | BAGS |
|-------------|----------|-------|-----|------|
| BZ603905020 | M5 x 20  | 2,302 | 10  | 15   |
| BZ603905030 | M5 x 30  | 2,302 | 10  | 15   |
| BZ603905040 | M5 x 40  | 2,302 | 4   | 15   |
| BZ603905050 | M5 x 50  | 2,302 | 4   | 15   |
| BZ603906016 | M6 x 16  | 2,302 | 4   | 15   |
| BZ603906020 | M6 x 20  | 2,302 | 4   | 15   |
| BZ603906030 | M6 x 30  | 2,302 | 4   | 15   |
| BZ603906040 | M6 x 40  | 2,302 | 4   | 15   |
| BZ603906050 | M6 x 50  | 2,302 | 4   | 15   |
| BZ603906060 | M6 x 60  | 2,302 | 2   | 15   |
| BZ603906070 | M6 x 70  | 2,302 | 2   | 15   |
| BZ603906080 | M6 x 80  | 2,302 | 2   | 15   |
| BZ603908025 | M8 x 25  | 2,302 | 4   | 15   |
| BZ603908030 | M8 x 30  | 2,302 | 4   | 15   |
| BZ603908040 | M8 x 40  | 2,302 | 4   | 15   |
| BZ603908050 | M8 x 50  | 2,302 | 2   | 15   |
| BZ603908060 | M8 x 60  | 2,302 | 2   | 15   |
| BZ603908070 | M8 x 70  | 2,302 | 2   | 15   |
| BZ603908080 | M8 x 80  | 2,302 | 2   | 12   |
| BZ603908090 | M8 x 90  | 2,302 | 2   | 12   |
| BZ603910025 | M10 x 25 | 2,302 | 2   | 10   |
| BZ603910030 | M10 x 30 | 2,302 | 2   | 10   |
| BZ603910040 | M10 x 40 | 2,302 | 2   | 10   |
| BZ603910050 | M10 x 50 | 2,302 | 2   | 10   |

Window box

| CODE        | SIZE     | €/BOX  | PCS | BOXES |
|-------------|----------|--------|-----|-------|
| VD603905020 | M5 x 20  | 6,049  | 50  | 8     |
| VD603905030 | M5 x 30  | 6,071  | 40  | 8     |
| VD603905040 | M5 x 40  | 7,175  | 40  | 8     |
| VD603905050 | M5 x 50  | 8,357  | 35  | 8     |
| VD603906016 | M6 x 16  | 5,127  | 30  | 8     |
| VD603906020 | M6 x 20  | 5,190  | 30  | 8     |
| VD603906030 | M6 x 30  | 5,871  | 30  | 8     |
| VD603906040 | M6 x 40  | 5,517  | 25  | 8     |
| VD603906050 | M6 x 50  | 6,947  | 25  | 8     |
| VD603906060 | M6 x 60  | 8,011  | 25  | 8     |
| VD603906070 | M6 x 70  | 10,039 | 25  | 8     |
| VD603906080 | M6 x 80  | 7,809  | 20  | 8     |
| VD603908025 | M8 x 25  | 5,729  | 15  | 8     |
| VD603908030 | M8 x 30  | 5,976  | 15  | 8     |
| VD603908040 | M8 x 40  | 6,185  | 15  | 8     |
| VD603908050 | M8 x 50  | 7,759  | 15  | 8     |
| VD603908060 | M8 x 60  | 6,966  | 12  | 8     |
| VD603908070 | M8 x 70  | 6,194  | 10  | 8     |
| VD603908080 | M8 x 80  | 7,156  | 10  | 8     |
| VD603908090 | M8 x 90  | 8,892  | 10  | 8     |
| VD603908100 | M8 x 100 | 8,927  | 10  | 8     |
| VD603910025 | M10 x 25 | 9,136  | 15  | 8     |
| VD603910030 | M10 x 30 | 7,949  | 10  | 8     |
| VD603910040 | M10 x 40 | 8,249  | 10  | 8     |
| VD603910050 | M10 x 50 | 8,372  | 8   | 8     |
| VD603910060 | M10 x 60 | 9,569  | 8   | 8     |
| VD603910070 | M10 x 70 | 9,890  | 8   | 8     |
| VD603910080 | M10 x 80 | 11,270 | 8   | 8     |



Round head screw with square neck. Stainless steel A2

# DIN-603

METAL



| CODE       | SIZE    | €/100         |     |       |
|------------|---------|---------------|-----|-------|
| D603I08016 | M8 x 16 | <b>42,047</b> | 200 | 2.400 |



Available in different coatings. Ask for price and delivery time.

Plow bolt with countersunk head 8.8. With nut

# DIN-608

METAL



| CODE      | SIZE    | €/100          |     |     |
|-----------|---------|----------------|-----|-----|
| D60810035 | 10 x 35 | <b>67,450</b>  | 100 | 600 |
| D60810040 | 10 x 40 | <b>69,587</b>  | 100 | 600 |
| D60810045 | 10 x 45 | <b>76,767</b>  | 100 | 600 |
| D60810050 | 10 x 50 | <b>81,737</b>  | 100 | 400 |
| D60810060 | 10 x 60 | <b>95,823</b>  | 100 | 400 |
| D60811040 | 11 x 40 | <b>78,700</b>  | 50  | 300 |
| D60811045 | 11 x 45 | <b>86,717</b>  | 50  | 300 |
| D60811050 | 11 x 50 | <b>92,120</b>  | 50  | 300 |
| D60811060 | 11 x 60 | <b>108,373</b> | 50  | 300 |
| D60811070 | 11 x 70 | <b>121,570</b> | 50  | 300 |
| D60811080 | 11 x 80 | <b>137,253</b> | 50  | 200 |
| D60811090 | 11 x 90 | <b>152,180</b> | 50  | 200 |

| CODE      | SIZE     | €/100          |    |     |
|-----------|----------|----------------|----|-----|
| D60812040 | 12 x 40  | <b>96,457</b>  | 50 | 300 |
| D60812045 | 12 x 45  | <b>101,463</b> | 50 | 300 |
| D60812050 | 12 x 50  | <b>107,107</b> | 50 | 300 |
| D60812060 | 12 x 60  | <b>123,563</b> | 50 | 200 |
| D60812070 | 12 x 70  | <b>137,213</b> | 50 | 200 |
| D60812080 | 12 x 80  | <b>151,297</b> | 50 | 200 |
| D60812090 | 12 x 90  | <b>169,727</b> | 50 | 200 |
| D60812100 | 12 x 100 | <b>188,117</b> | 50 | 200 |



Available in different coatings. Ask for price and delivery time.

Cylindrical head screw. Slotted recess. 4.8

# DIN-84

METAL



| CODE      | SIZE    | €/100         |       |        |
|-----------|---------|---------------|-------|--------|
| T0840304Z | M3 x 4  | <b>1,953</b>  | 1.000 | 45.000 |
| T0840306Z | M3 x 6  | <b>1,973</b>  | 1.000 | 30.000 |
| T0840308Z | M3 x 8  | <b>2,003</b>  | 1.000 | 30.000 |
| T0840310Z | M3 x 10 | <b>2,060</b>  | 1.000 | 24.000 |
| T0840312Z | M3 x 12 | <b>2,500</b>  | 1.000 | 24.000 |
| T0840316Z | M3 x 16 | <b>2,513</b>  | 1.000 | 16.000 |
| T0840320Z | M3 x 20 | <b>3,103</b>  | 1.000 | 12.000 |
| T0840325Z | M3 x 25 | <b>4,060</b>  | 1.000 | 12.000 |
| T0840330Z | M3 x 30 | <b>4,670</b>  | 500   | 6.000  |
| T0840335Z | M3 x 35 | <b>5,370</b>  | 500   | 6.000  |
| T0840340Z | M3 x 40 | <b>6,487</b>  | 500   | 6.000  |
| T0840406Z | M4 x 6  | <b>2,953</b>  | 500   | 15.000 |
| T0840408Z | M4 x 8  | <b>3,017</b>  | 500   | 12.000 |
| T0840410Z | M4 x 10 | <b>3,157</b>  | 500   | 12.000 |
| T0840412Z | M4 x 12 | <b>3,313</b>  | 500   | 12.000 |
| T0840416Z | M4 x 16 | <b>3,667</b>  | 500   | 8.000  |
| T0840420Z | M4 x 20 | <b>3,850</b>  | 500   | 8.000  |
| T0840425Z | M4 x 25 | <b>4,360</b>  | 500   | 6.000  |
| T0840435Z | M4 x 35 | <b>6,690</b>  | 250   | 3.000  |
| T0840445Z | M4 x 45 | <b>9,453</b>  | 250   | 3.000  |
| T0840450Z | M4 x 50 | <b>11,210</b> | 250   | 3.000  |
| T0840460Z | M4 x 60 | <b>13,373</b> | 250   | 3.000  |
| T0840470Z | M4 x 70 | <b>16,247</b> | 100   | 1.200  |
| T0840506Z | M5 x 6  | <b>4,260</b>  | 500   | 8.000  |

| CODE      | SIZE    | €/100         |     |        |
|-----------|---------|---------------|-----|--------|
| T0840508Z | M5 x 8  | <b>4,307</b>  | 500 | 12.000 |
| T0840510Z | M5 x 10 | <b>4,453</b>  | 500 | 8.000  |
| T0840512Z | M5 x 12 | <b>5,193</b>  | 250 | 7.500  |
| T0840516Z | M5 x 16 | <b>5,860</b>  | 250 | 6.000  |
| T0840520Z | M5 x 20 | <b>5,923</b>  | 250 | 6.000  |
| T0840525Z | M5 x 25 | <b>6,627</b>  | 250 | 4.000  |
| T0840530Z | M5 x 30 | <b>8,147</b>  | 250 | 4.000  |
| T0840535Z | M5 x 35 | <b>9,453</b>  | 250 | 3.000  |
| T0840540Z | M5 x 40 | <b>9,653</b>  | 250 | 3.000  |
| T0840545Z | M5 x 45 | <b>11,477</b> | 250 | 3.000  |
| T0840550Z | M5 x 50 | <b>13,260</b> | 250 | 3.000  |
| T0840560Z | M5 x 60 | <b>15,703</b> | 250 | 1.500  |
| T0840608Z | M6 x 8  | <b>6,410</b>  | 250 | 1.500  |
| T0840610Z | M6 x 10 | <b>6,573</b>  | 250 | 4.000  |
| T0840616Z | M6 x 16 | <b>8,157</b>  | 250 | 4.000  |
| T0840620Z | M6 x 20 | <b>8,647</b>  | 250 | 3.000  |
| T0840625Z | M6 x 25 | <b>9,940</b>  | 250 | 3.000  |
| T0840630Z | M6 x 30 | <b>11,017</b> | 250 | 3.000  |
| T0840635Z | M6 x 35 | <b>12,500</b> | 250 | 1.500  |
| T0840640Z | M6 x 40 | <b>12,900</b> | 250 | 1.500  |
| T0840645Z | M6 x 45 | <b>14,367</b> | 250 | 1.500  |
| T0840650Z | M6 x 50 | <b>15,697</b> | 250 | 1.500  |
| T0840660Z | M6 x 60 | <b>17,430</b> | 250 | 1.500  |



Available in different coatings. Ask for price and delivery time.





# DIN-7985

Panhead screw with PH recess. 4.8

METAL



Available in different coatings. Ask for price and delivery time.

| CODE      | SIZE    | €/100 |     |       |        | CODE      | SIZE    | €/100  |     |     |       |
|-----------|---------|-------|-----|-------|--------|-----------|---------|--------|-----|-----|-------|
| T9850306Z | M3 x 6  | 1,677 | PH1 | 1.000 | 30.000 | T9850510Z | M5 x 10 | 4,977  | PH2 | 500 | 8.000 |
| T9850308Z | M3 x 8  | 1,693 | PH1 | 1.000 | 30.000 | T9850512Z | M5 x 12 | 5,500  | PH2 | 250 | 6.000 |
| T9850310Z | M3 x 10 | 1,717 | PH1 | 1.000 | 24.000 | T9850516Z | M5 x 16 | 5,917  | PH2 | 250 | 4.000 |
| T9850312Z | M3 x 12 | 1,887 | PH1 | 1.000 | 24.000 | T9850520Z | M5 x 20 | 6,363  | PH2 | 250 | 4.000 |
| T9850316Z | M3 x 16 | 2,027 | PH1 | 1.000 | 16.000 | T9850525Z | M5 x 25 | 7,197  | PH2 | 250 | 4.000 |
| T9850320Z | M3 x 20 | 2,460 | PH1 | 1.000 | 12.000 | T9850530Z | M5 x 30 | 7,940  | PH2 | 250 | 2.000 |
| T9850325Z | M3 x 25 | 2,947 | PH1 | 500   | 12.000 | T9850535Z | M5 x 35 | 9,507  | PH2 | 250 | 3.000 |
| T9850330Z | M3 x 30 | 3,567 | PH1 | 500   | 12.000 | T9850540Z | M5 x 40 | 10,603 | PH2 | 250 | 3.000 |
| T9850406Z | M4 x 6  | 2,630 | PH2 | 500   | 12.000 | T9850545Z | M5 x 45 | 10,890 | PH2 | 250 | 2.000 |
| T9850408Z | M4 x 8  | 2,660 | PH2 | 500   | 12.000 | T9850550Z | M5 x 50 | 13,937 | PH2 | 250 | 2.000 |
| T9850410Z | M4 x 10 | 3,213 | PH2 | 500   | 12.000 | T9850608Z | M6 x 8  | 7,360  | PH3 | 250 | 6.000 |
| T9850412Z | M4 x 12 | 3,297 | PH2 | 500   | 8.000  | T9850610Z | M6 x 10 | 7,467  | PH3 | 250 | 4.000 |
| T9850416Z | M4 x 16 | 3,593 | PH2 | 500   | 8.000  | T9850612Z | M6 x 12 | 8,083  | PH3 | 250 | 4.000 |
| T9850420Z | M4 x 20 | 3,797 | PH2 | 500   | 8.000  | T9850616Z | M6 x 16 | 8,273  | PH3 | 250 | 4.000 |
| T9850425Z | M4 x 25 | 4,543 | PH2 | 500   | 6.000  | T9850620Z | M6 x 20 | 9,757  | PH3 | 250 | 3.000 |
| T9850430Z | M4 x 30 | 5,470 | PH2 | 500   | 6.000  | T9850625Z | M6 x 25 | 10,797 | PH3 | 250 | 3.000 |
| T9850435Z | M4 x 35 | 7,213 | PH2 | 250   | 3.000  | T9850630Z | M6 x 30 | 11,643 | PH3 | 250 | 3.000 |
| T9850440Z | M4 x 40 | 7,547 | PH2 | 250   | 3.000  | T9850635Z | M6 x 35 | 13,140 | PH3 | 250 | 3.000 |
| T9850450Z | M4 x 50 | 9,803 | PH2 | 250   | 3.000  | T9850640Z | M6 x 40 | 14,637 | PH3 | 250 | 1.500 |
| T9850506Z | M5 x 6  | 4,683 | PH2 | 500   | 8.000  | T9850650Z | M6 x 50 | 17,917 | PH3 | 250 | 1.500 |
| T9850508Z | M5 x 8  | 4,777 | PH2 | 500   | 8.000  | T9850660Z | M6 x 60 | 19,320 | PH3 | 250 | 1.500 |

### Blister

| CODE        | SIZE    | €/BAG | PCS BAG | BAGS |
|-------------|---------|-------|---------|------|
| BZT9850306Z | M3 x 6  | 1,820 | 10      | 20   |
| BZT9850310Z | M3 x 10 | 1,820 | 10      | 20   |
| BZT9850316Z | M3 x 16 | 1,820 | 6       | 20   |
| BZT9850320Z | M3 x 20 | 1,820 | 6       | 20   |
| BZT9850330Z | M3 x 30 | 1,820 | 6       | 20   |
| BZT9850416Z | M4 x 16 | 1,820 | 6       | 20   |
| BZT9850420Z | M4 x 20 | 1,820 | 6       | 20   |
| BZT9850430Z | M4 x 30 | 1,820 | 6       | 20   |
| BZT9850510Z | M5 x 10 | 1,820 | 6       | 20   |
| BZT9850520Z | M5 x 20 | 1,820 | 6       | 20   |
| BZT9850525Z | M5 x 25 | 1,820 | 6       | 20   |
| BZT9850530Z | M5 x 30 | 1,820 | 6       | 20   |
| BZT9850540Z | M5 x 40 | 1,820 | 6       | 20   |
| BZT9850610Z | M6 x 10 | 1,820 | 6       | 20   |
| BZT9850616Z | M6 x 16 | 1,820 | 6       | 20   |
| BZT9850620Z | M6 x 20 | 1,820 | 6       | 20   |
| BZT9850625Z | M6 x 25 | 1,820 | 6       | 20   |
| BZT9850630Z | M6 x 30 | 1,820 | 6       | 20   |
| BZT9850640Z | M6 x 40 | 1,820 | 6       | 15   |
| BZT9850650Z | M6 x 50 | 1,820 | 4       | 15   |
| BZT9850660Z | M6 x 60 | 1,820 | 4       | 15   |

### Window box

| CODE       | SIZE    | €/BOX  | PCS BOX | BOXES |
|------------|---------|--------|---------|-------|
| VT9850306Z | M3 x 6  | 3,914  | 150     | 8     |
| VT9850310Z | M3 x 10 | 4,154  | 150     | 8     |
| VT9850316Z | M3 x 16 | 3,683  | 100     | 8     |
| VT9850320Z | M3 x 20 | 3,917  | 100     | 8     |
| VT9850330Z | M3 x 30 | 4,367  | 100     | 8     |
| VT9850406Z | M4 x 6  | 3,940  | 100     | 8     |
| VT9850408Z | M4 x 8  | 4,012  | 100     | 8     |
| VT9850410Z | M4 x 10 | 4,228  | 100     | 8     |
| VT9850416Z | M4 x 16 | 4,605  | 100     | 8     |
| VT9850420Z | M4 x 20 | 4,864  | 100     | 8     |
| VT9850506Z | M5 x 6  | 5,089  | 100     | 8     |
| VT9850510Z | M5 x 10 | 5,320  | 100     | 8     |
| VT9850512Z | M5 x 12 | 5,080  | 70      | 8     |
| VT9850516Z | M5 x 16 | 5,199  | 70      | 8     |
| VT9850520Z | M5 x 20 | 5,586  | 70      | 8     |
| VT9850530Z | M5 x 30 | 5,165  | 50      | 8     |
| VT9850540Z | M5 x 40 | 6,546  | 50      | 8     |
| VT9850550Z | M5 x 50 | 8,560  | 50      | 8     |
| VT9850610Z | M6 x 10 | 6,666  | 70      | 8     |
| VT9850612Z | M6 x 12 | 7,106  | 70      | 8     |
| VT9850616Z | M6 x 16 | 7,274  | 70      | 8     |
| VT9850620Z | M6 x 20 | 7,318  | 50      | 8     |
| VT9850630Z | M6 x 30 | 7,189  | 50      | 8     |
| VT9850640Z | M6 x 40 | 9,032  | 50      | 8     |
| VT9850650Z | M6 x 50 | 11,125 | 50      | 8     |
| VT9850660Z | M6 x 60 | 11,920 | 50      | 8     |



Slotted countersunk head screw. 4.8

DIN-963

METAL



| CODE      | SIZE    | €/100 |     |        |
|-----------|---------|-------|-----|--------|
| T9630410Z | M4 x 10 | 2,850 | 500 | 22.500 |
| T9630412Z | M4 x 12 | 3,007 | 500 | 22.500 |
| T9630416Z | M4 x 16 | 3,080 | 500 | 12.000 |
| T9630420Z | M4 x 20 | 3,220 | 500 | 12.000 |
| T9630430Z | M4 x 30 | 4,630 | 500 | 6.000  |
| T9630440Z | M4 x 40 | 5,853 | 250 | 3.000  |
| T9630450Z | M4 x 50 | 8,680 | 250 | 3.000  |
| T9630510Z | M5 x 10 | 3,257 | 500 | 12.000 |
| T9630512Z | M5 x 12 | 3,860 | 500 | 12.000 |
| T9630516Z | M5 x 16 | 4,010 | 250 | 7.500  |
| T9630520Z | M5 x 20 | 4,670 | 250 | 6.000  |
| T9630525Z | M5 x 25 | 5,803 | 250 | 6.000  |
| T9630530Z | M5 x 30 | 5,987 | 250 | 4.000  |

| CODE      | SIZE    | €/100  |     |        |
|-----------|---------|--------|-----|--------|
| T9630540Z | M5 x 40 | 9,243  | 250 | 3.000  |
| T9630550Z | M5 x 50 | 11,180 | 250 | 3.000  |
| T9630560Z | M5 x 60 | 13,490 | 250 | 1.500  |
| T9630610Z | M6 x 10 | 5,260  | 250 | 11.250 |
| T9630612Z | M6 x 12 | 5,487  | 250 | 11.250 |
| T9630616Z | M6 x 16 | 5,803  | 250 | 6.000  |
| T9630620Z | M6 x 20 | 6,790  | 250 | 4.000  |
| T9630625Z | M6 x 25 | 7,640  | 250 | 3.000  |
| T9630630Z | M6 x 30 | 8,680  | 250 | 3.000  |
| T9630640Z | M6 x 40 | 10,723 | 250 | 1.500  |
| T9630650Z | M6 x 50 | 12,173 | 250 | 1.500  |
| T9630660Z | M6 x 60 | 13,460 | 250 | 1.500  |



Available in different coatings. Ask for price and delivery time.

Countersunk head screw with PH recess. 4.8

DIN-965

METAL



| CODE      | SIZE    | €/100 |     |       |        |
|-----------|---------|-------|-----|-------|--------|
| T9650306Z | M3 x 6  | 1,937 | PH1 | 1.000 | 45.000 |
| T9650308Z | M3 x 8  | 1,937 | PH1 | 1.000 | 45.000 |
| T9650310Z | M3 x 10 | 1,937 | PH1 | 1.000 | 30.000 |
| T9650312Z | M3 x 12 | 2,123 | PH1 | 1.000 | 24.000 |
| T9650316Z | M3 x 16 | 2,443 | PH1 | 500   | 22.500 |
| T9650320Z | M3 x 20 | 2,880 | PH1 | 500   | 22.500 |
| T9650325Z | M3 x 25 | 3,490 | PH1 | 500   | 12.000 |
| T9650408Z | M4 x 8  | 3,123 | PH2 | 500   | 22.500 |
| T9650410Z | M4 x 10 | 3,147 | PH2 | 500   | 12.000 |
| T9650412Z | M4 x 12 | 3,170 | PH2 | 500   | 22.500 |
| T9650416Z | M4 x 16 | 3,297 | PH2 | 500   | 12.000 |
| T9650420Z | M4 x 20 | 3,737 | PH2 | 500   | 12.000 |
| T9650425Z | M4 x 25 | 4,117 | PH2 | 500   | 6.000  |
| T9650430Z | M4 x 30 | 4,990 | PH2 | 500   | 6.000  |
| T9650435Z | M4 x 35 | 5,890 | PH2 | 500   | 6.000  |
| T9650440Z | M4 x 40 | 6,787 | PH2 | 250   | 3.000  |
| T9650450Z | M4 x 50 | 7,893 | PH2 | 250   | 3.000  |
| T9650510Z | M5 x 10 | 4,550 | PH2 | 250   | 11.250 |
| T9650512Z | M5 x 12 | 4,897 | PH2 | 250   | 11.250 |

| CODE      | SIZE    | €/100  |     |     |       |
|-----------|---------|--------|-----|-----|-------|
| T9650516Z | M5 x 16 | 5,233  | PH2 | 250 | 6.000 |
| T9650520Z | M5 x 20 | 5,813  | PH2 | 250 | 6.000 |
| T9650525Z | M5 x 25 | 6,543  | PH2 | 250 | 6.000 |
| T9650530Z | M5 x 30 | 7,317  | PH2 | 250 | 4.000 |
| T9650535Z | M5 x 35 | 8,430  | PH2 | 250 | 6.000 |
| T9650540Z | M5 x 40 | 9,267  | PH2 | 250 | 3.000 |
| T9650550Z | M5 x 50 | 12,027 | PH2 | 250 | 3.000 |
| T9650560Z | M5 x 60 | 15,123 | PH2 | 250 | 1.500 |
| T9650610Z | M6 x 10 | 6,803  | PH3 | 250 | 6.000 |
| T9650612Z | M6 x 12 | 6,940  | PH3 | 250 | 6.000 |
| T9650616Z | M6 x 16 | 7,460  | PH3 | 250 | 6.000 |
| T9650620Z | M6 x 20 | 8,540  | PH3 | 250 | 4.000 |
| T9650625Z | M6 x 25 | 9,463  | PH3 | 250 | 3.000 |
| T9650630Z | M6 x 30 | 10,573 | PH3 | 250 | 3.000 |
| T9650635Z | M6 x 35 | 11,780 | PH3 | 250 | 3.000 |
| T9650640Z | M6 x 40 | 12,987 | PH3 | 250 | 1.500 |
| T9650660Z | M6 x 60 | 18,613 | PH3 | 100 | 1.200 |
| T9650650Z | M6 x 50 | 15,703 | PH3 | 250 | 1.500 |



Available in different coatings. Ask for price and delivery time.

Blister

| CODE        | SIZE    | €/BAG | PCS | BAGS |
|-------------|---------|-------|-----|------|
| BZT9650410Z | M4 x 10 | 1,820 | 6   | 20   |
| BZT9650420Z | M4 x 20 | 1,820 | 6   | 20   |
| BZT9650430Z | M4 x 30 | 1,820 | 6   | 20   |
| BZT9650510Z | M5 x 10 | 1,820 | 6   | 20   |
| BZT9650520Z | M5 x 20 | 1,820 | 6   | 20   |
| BZT9650525Z | M5 x 25 | 1,820 | 6   | 20   |
| BZT9650530Z | M5 x 30 | 1,820 | 6   | 20   |
| BZT9650620Z | M6 x 20 | 1,820 | 6   | 20   |
| BZT9650630Z | M6 x 30 | 1,820 | 6   | 20   |
| BZT9650640Z | M6 x 40 | 1,820 | 6   | 20   |

Window box

| CODE       | SIZE    | €/BOX | PCS | BOXES |
|------------|---------|-------|-----|-------|
| VT9650306Z | M3 x 6  | 4,857 | 200 | 8     |
| VT9650310Z | M3 x 10 | 4,719 | 200 | 8     |
| VT9650408Z | M4 x 8  | 3,689 | 100 | 8     |
| VT9650410Z | M4 x 10 | 3,731 | 100 | 8     |
| VT9650416Z | M4 x 16 | 4,021 | 100 | 8     |
| VT9650420Z | M4 x 20 | 4,553 | 100 | 8     |
| VT9650425Z | M4 x 25 | 5,016 | 100 | 8     |
| VT9650430Z | M4 x 30 | 6,077 | 100 | 8     |
| VT9650510Z | M5 x 10 | 3,886 | 70  | 8     |
| VT9650516Z | M5 x 16 | 4,472 | 70  | 8     |
| VT9650520Z | M5 x 20 | 4,962 | 70  | 8     |
| VT9650530Z | M5 x 30 | 4,456 | 50  | 8     |
| VT9650540Z | M5 x 40 | 5,650 | 50  | 8     |
| VT9650610Z | M6 x 10 | 5,916 | 70  | 8     |
| VT9650616Z | M6 x 16 | 6,362 | 70  | 8     |
| VT9650620Z | M6 x 20 | 7,280 | 70  | 8     |
| VT9650630Z | M6 x 30 | 6,441 | 50  | 8     |

# DIN-934

Hexagonal nut

## DIN-934

Zinc-plated

METAL



Available in different coatings. Ask for price and delivery time.

| CODE   | SIZE | €/100   | INSTALLATION KEY |       |        |
|--------|------|---------|------------------|-------|--------|
| D93403 | M3   | 1,430   | 5,5              | 500   | 22.500 |
| D93404 | M4   | 1,480   | 7                | 1.000 | 45.000 |
| D93405 | M5   | 1,920   | 8                | 500   | 12.000 |
| D93406 | M6   | 3,010   | 10               | 500   | 12.000 |
| D93408 | M8   | 5,380   | 13               | 250   | 6.000  |
| D93410 | M10  | 12,843  | 17               | 250   | 3.000  |
| D93412 | M12  | 20,297  | 19               | 250   | 1.500  |
| D93414 | M14  | 27,077  | 22               | 100   | 1.200  |
| D93416 | M16  | 40,280  | 24               | 100   | 600    |
| D93418 | M18  | 57,497  | 27               | 100   | 600    |
| D93420 | M20  | 66,997  | 30               | 50    | 600    |
| D93422 | M22  | 107,457 | 32               | 50    | 300    |
| D93424 | M24  | 150,750 | 36               | 25    | 300    |
| D93427 | M27  | 260,233 | 41               | 25    | 150    |
| D93430 | M30  | 345,570 | 46               | 25    | 150    |
| D93433 | M33  | 492,517 | 50               | 10    | 120    |
| D93436 | M36  | 522,760 | 55               | 10    | 60     |

### Blister

| CODE      | SIZE | €/BAG | PCS<br> | BAGS<br> |
|-----------|------|-------|---------|----------|
| BZ934ZM03 | M3   | 1,820 | 40      | 20       |
| BZ934ZM04 | M4   | 1,820 | 40      | 20       |
| BZ934ZM05 | M5   | 1,820 | 40      | 20       |
| BZ934ZM06 | M6   | 1,820 | 20      | 20       |
| BZ934ZM08 | M8   | 1,820 | 10      | 20       |
| BZ934ZM10 | M10  | 1,820 | 10      | 15       |
| BZ934ZM12 | M12  | 1,820 | 6       | 15       |

### Window box

| CODE    | SIZE | €/BOX | PCS<br> | BOXES<br> |
|---------|------|-------|---------|-----------|
| VD93403 | M3   | 3,337 | 150     | 8         |
| VD93404 | M4   | 3,337 | 150     | 8         |
| VD93405 | M5   | 2,904 | 100     | 8         |
| VD93406 | M6   | 4,154 | 100     | 8         |
| VD93408 | M8   | 3,708 | 50      | 8         |
| VD93410 | M10  | 5,330 | 30      | 8         |
| VD93412 | M12  | 5,612 | 20      | 8         |

## DIN-934 A2

A2 Stainless steel

STAINLESS  
STEEL



| CODE     | SIZE | €/100   | INSTALLATION KEY |     |        |
|----------|------|---------|------------------|-----|--------|
| D934IM04 | M4   | 4,563   | 7                | 500 | 22.500 |
| D934IM05 | M5   | 5,273   | 8                | 500 | 12.000 |
| D934IM06 | M6   | 8,707   | 10               | 500 | 12.000 |
| D934IM08 | M8   | 17,653  | 13               | 250 | 4.000  |
| D934IM10 | M10  | 39,383  | 17               | 250 | 2.000  |
| D934IM12 | M12  | 57,743  | 19               | 250 | 1.500  |
| D934IM14 | M14  | 82,997  | 22               | 100 | 800    |
| D934IM16 | M16  | 116,470 | 24               | 100 | 600    |
| D934IM18 | M18  | 185,243 | 27               | 100 | 600    |
| D934IM20 | M20  | 243,233 | 30               | 50  | 400    |
| D934IM22 | M22  | 336,203 | 32               | 50  | 300    |
| D934IM24 | M24  | 437,060 | 36               | 25  | 200    |

### Blister

| CODE      | SIZE | €/BAG | PCS<br> | BAGS<br> |
|-----------|------|-------|---------|----------|
| BZ934IM04 | M4   | 2,302 | 10      | 20       |
| BZ934IM05 | M5   | 2,302 | 8       | 20       |
| BZ934IM06 | M6   | 2,302 | 8       | 20       |
| BZ934IM08 | M8   | 2,302 | 6       | 20       |
| BZ934IM10 | M10  | 2,302 | 5       | 15       |

### Window box

| CODE      | SIZE | €/BOX | PCS<br> | BOXES<br> |
|-----------|------|-------|---------|-----------|
| VD934IM04 | M4   | 3,090 | 50      | 8         |
| VD934IM05 | M5   | 3,575 | 50      | 8         |
| VD934IM06 | M6   | 5,308 | 50      | 8         |
| VD934IM08 | M8   | 6,457 | 30      | 8         |
| VD934IM10 | M10  | 9,605 | 20      | 8         |



Nylon insert nut

DIN-985

METAL



DIN-985

Zinc-plated

| CODE    | SIZE | €/100   | INSTALLATION KEY |     |        |
|---------|------|---------|------------------|-----|--------|
| DZ98503 | M3   | 2,650   | 5,5              | 500 | 22.500 |
| DZ98504 | M4   | 2,773   | 7                | 500 | 12.000 |
| DZ98505 | M5   | 2,973   | 8                | 500 | 12.000 |
| DZ98506 | M6   | 4,140   | 10               | 500 | 12.000 |
| DZ98508 | M8   | 7,397   | 13               | 250 | 6.000  |
| DZ98510 | M10  | 16,373  | 17               | 250 | 2.000  |
| DZ98512 | M12  | 25,780  | 19               | 100 | 1.200  |
| DZ98514 | M14  | 41,183  | 22               | 100 | 1.200  |
| DZ98516 | M16  | 50,193  | 24               | 50  | 600    |
| DZ98518 | M18  | 83,050  | 27               | 50  | 600    |
| DZ98520 | M20  | 104,407 | 30               | 25  | 300    |
| DZ98522 | M22  | 169,533 | 32               | 25  | 300    |
| DZ98524 | M24  | 206,053 | 36               | 25  | 300    |
| DZ98527 | M27  | 407,950 | 41               | 15  | 180    |
| DZ98530 | M30  | 690,217 | 46               | 15  | 90     |



Available in different coatings. Ask for price and delivery time.



Blister

| CODE     | SIZE | €/BAG | PCS | BAGS |
|----------|------|-------|-----|------|
| BZZ98503 | M3   | 1,820 | 20  | 20   |
| BZZ98504 | M4   | 1,820 | 20  | 20   |
| BZZ98505 | M5   | 1,820 | 20  | 20   |
| BZZ98506 | M6   | 1,820 | 10  | 20   |
| BZZ98508 | M8   | 1,820 | 5   | 20   |
| BZZ98510 | M10  | 1,820 | 5   | 15   |
| BZZ98512 | M12  | 1,820 | 3   | 15   |



Window box

| CODE     | SIZE | €/BOX | PCS | BOXES |
|----------|------|-------|-----|-------|
| VDZ98503 | M3   | 4,180 | 100 | 8     |
| VDZ98504 | M4   | 4,180 | 100 | 8     |
| VDZ98505 | M5   | 4,363 | 100 | 8     |
| VDZ98506 | M6   | 5,032 | 80  | 8     |
| VDZ98508 | M8   | 4,994 | 50  | 8     |
| VDZ98510 | M10  | 5,574 | 25  | 8     |
| VDZ98512 | M12  | 5,583 | 15  | 8     |

STAINLESS  
STEEL

DIN-985 A2

A2 Stainless steel

| CODE     | SIZE | €/100     | INSTALLATION KEY |     |        |
|----------|------|-----------|------------------|-----|--------|
| D985IM04 | M4   | 8,450     | 7                | 500 | 22.500 |
| D985IM05 | M5   | 9,097     | 8                | 500 | 8.000  |
| D985IM06 | M6   | 12,853    | 10               | 500 | 8.000  |
| D985IM08 | M8   | 25,340    | 13               | 250 | 4.000  |
| D985IM10 | M10  | 53,960    | 17               | 250 | 2.000  |
| D985IM12 | M12  | 83,880    | 19               | 100 | 1.200  |
| D985IM14 | M14  | 149,947   | 22               | 100 | 800    |
| D985IM16 | M16  | 181,737   | 24               | 50  | 600    |
| D985IM18 | M18  | 415,913   | 27               | 50  | 400    |
| D985IM20 | M20  | 533,417   | 30               | 25  | 300    |
| D985IM22 | M22  | 1.207,343 | 32               | 25  | 300    |
| D985IM24 | M24  | 1.627,850 | 36               | 25  | 150    |



Blister

| CODE      | SIZE | €/BAG | PCS | BAGS |
|-----------|------|-------|-----|------|
| BZ985IM04 | M4   | 2,302 | 10  | 20   |
| BZ985IM05 | M5   | 2,302 | 8   | 20   |
| BZ985IM06 | M6   | 2,302 | 8   | 20   |
| BZ985IM08 | M8   | 2,302 | 6   | 20   |
| BZ985IM10 | M10  | 2,302 | 5   | 15   |



Window box

| CODE      | SIZE | €/BOX  | PCS | BOXES |
|-----------|------|--------|-----|-------|
| VD985IM04 | M4   | 5,149  | 50  | 8     |
| VD985IM05 | M5   | 5,548  | 50  | 8     |
| VD985IM06 | M6   | 7,838  | 50  | 8     |
| VD985IM08 | M8   | 9,269  | 30  | 8     |
| VD985IM10 | M10  | 13,160 | 20  | 8     |

# DIN-6923

Hexagonal flange nut with serration

## DIN-6923

Zinc-plated

METAL



| CODE    | SIZE | €/100         | INSTALLATION KEY |     |        |
|---------|------|---------------|------------------|-----|--------|
| D692304 | M4   | <b>2,697</b>  | 7                | 500 | 15.000 |
| D692305 | M5   | <b>3,327</b>  | 8                | 500 | 12.000 |
| D692306 | M6   | <b>5,037</b>  | 10               | 500 | 8.000  |
| D692308 | M8   | <b>9,803</b>  | 13               | 250 | 3.000  |
| D692310 | M10  | <b>16,003</b> | 15               | 250 | 2.000  |
| D692312 | M12  | <b>25,380</b> | 18               | 250 | 1.000  |
| D692314 | M14  | <b>44,383</b> | 21               | 100 | 600    |
| D692316 | M16  | <b>55,783</b> | 24               | 100 | 400    |



Available in different coatings. Ask for price and delivery time.

## DIN-6923 A2

DIN-6923 Hexagonal flange nut with serration. Stainless steel A2

METAL



| CODE      | SIZE | €/100         | INSTALLATION KEY |     |       |
|-----------|------|---------------|------------------|-----|-------|
| D6923IM08 | M8   | <b>24,660</b> | 13               | 250 | 3.000 |
| D6923IM10 | M10  | <b>47,753</b> | 15               | 250 | 3.000 |
| D6923IM12 | M12  | <b>70,740</b> | 18               | 250 | 1.500 |

# DIN-1587

Cup nut

METAL



| CODE    | SIZE | €/100         | INSTALLATION KEY |     |        |
|---------|------|---------------|------------------|-----|--------|
| D158704 | M4   | <b>7,283</b>  | 7                | 500 | 15.000 |
| D158705 | M5   | <b>7,720</b>  | 8                | 250 | 7.500  |
| D158706 | M6   | <b>9,043</b>  | 10               | 250 | 4.000  |
| D158708 | M8   | <b>17,637</b> | 13               | 100 | 2.400  |
| D158710 | M10  | <b>34,017</b> | 17               | 100 | 1.600  |
| D158712 | M12  | <b>51,613</b> | 19               | 50  | 800    |
| D158714 | M14  | <b>88,233</b> | 22               | 50  | 600    |
| D158716 | M16  | <b>93,480</b> | 24               | 25  | 300    |



Available in different coatings. Ask for price and delivery time.

### Blister

| CODE     | SIZE | €/BAG        | PCS BAG | BAGS |
|----------|------|--------------|---------|------|
| BZ158704 | M4   | <b>1,820</b> | 20      | 20   |
| BZ158705 | M5   | <b>1,820</b> | 20      | 20   |
| BZ158706 | M6   | <b>1,820</b> | 10      | 20   |
| BZ158708 | M8   | <b>1,820</b> | 5       | 20   |
| BZ158710 | M10  | <b>1,820</b> | 5       | 20   |
| BZ158712 | M12  | <b>1,820</b> | 3       | 20   |

### Window box

| CODE     | SIZE | €/BOX        | PCS BOX | BOXES |
|----------|------|--------------|---------|-------|
| VD158704 | M4   | <b>7,061</b> | 75      | 8     |
| VD158705 | M5   | <b>4,994</b> | 50      | 8     |
| VD158706 | M6   | <b>5,845</b> | 50      | 8     |
| VD158708 | M8   | <b>5,703</b> | 25      | 8     |
| VD158710 | M10  | <b>8,797</b> | 20      | 8     |
| VD158712 | M12  | <b>6,676</b> | 10      | 8     |





Plain washer

DIN-125

METAL



DIN-125

Zinc-plated

| CODE   | SIZE | €/100   |       |        |
|--------|------|---------|-------|--------|
| D12503 | M3   | 0,733   | 1.000 | 45.000 |
| D12504 | M4   | 0,923   | 1.000 | 45.000 |
| D12505 | M5   | 1,103   | 1.000 | 45.000 |
| D12506 | M6   | 1,960   | 500   | 22.500 |
| D12508 | M8   | 3,153   | 250   | 11.250 |
| D12510 | M10  | 5,437   | 250   | 6.000  |
| D12512 | M12  | 9,623   | 250   | 3.000  |
| D12514 | M14  | 13,237  | 200   | 2.400  |
| D12516 | M16  | 17,240  | 100   | 2.400  |
| D12518 | M18  | 21,747  | 100   | 2.400  |
| D12520 | M20  | 25,530  | 50    | 1.200  |
| D12522 | M22  | 43,573  | 50    | 1.200  |
| D12524 | M24  | 59,617  | 50    | 600    |
| D12527 | M27  | 81,093  | 50    | 600    |
| D12530 | M30  | 107,907 | 50    | 300    |
| D12533 | M33  | 174,573 | 50    | 300    |
| D12536 | M36  | 237,957 | 25    | 300    |



Available in different coatings. Ask for price and delivery time.

Blister

| CODE     | SIZE | €/BAG | PCS<br> | BAGS<br> |
|----------|------|-------|---------|----------|
| BZ125M03 | M3   | 1,820 | 40      | 20       |
| BZ125M04 | M4   | 1,820 | 40      | 20       |
| BZ125M05 | M5   | 1,820 | 40      | 20       |
| BZ125M06 | M6   | 1,820 | 20      | 20       |
| BZ125M08 | M8   | 1,820 | 10      | 20       |
| BZ125M10 | M10  | 1,820 | 10      | 20       |
| BZ125M12 | M12  | 1,820 | 6       | 20       |

Window box

| CODE    | SIZE | €/BOX | PCS<br> | BOXES<br> |
|---------|------|-------|---------|-----------|
| VD12503 | M3   | 3,575 | 200     | 8         |
| VD12504 | M4   | 3,575 | 200     | 8         |
| VD12505 | M5   | 3,268 | 150     | 8         |
| VD12506 | M6   | 3,873 | 100     | 8         |
| VD12508 | M8   | 4,472 | 75      | 8         |
| VD12510 | M10  | 8,281 | 75      | 8         |
| VD12512 | M12  | 9,757 | 50      | 8         |

STAINLESS  
STEEL

DIN-125 A2

A2 Stainless steel

| CODE     | SIZE | €/100   |     |        |
|----------|------|---------|-----|--------|
| D125IM04 | M4   | 1,453   | 500 | 22.500 |
| D125IM05 | M5   | 1,917   | 500 | 22.500 |
| D125IM06 | M6   | 3,480   | 500 | 22.500 |
| D125IM08 | M8   | 5,967   | 250 | 11.250 |
| D125IM10 | M10  | 11,397  | 250 | 6.000  |
| D125IM12 | M12  | 20,273  | 250 | 3.000  |
| D125IM14 | M14  | 31,777  | 200 | 2.400  |
| D125IM16 | M16  | 35,087  | 100 | 2.400  |
| D125IM18 | M18  | 52,030  | 100 | 1.600  |
| D125IM20 | M20  | 55,253  | 50  | 1.200  |
| D125IM22 | M22  | 65,523  | 50  | 1.200  |
| D125IM24 | M24  | 114,640 | 50  | 600    |



Blister

| CODE      | SIZE | €/BAG | PCS<br> | BAGS<br> |
|-----------|------|-------|---------|----------|
| BZ125IM04 | M4   | 2,302 | 10      | 20       |
| BZ125IM05 | M5   | 2,302 | 8       | 20       |
| BZ125IM06 | M6   | 2,302 | 8       | 20       |
| BZ125IM08 | M8   | 2,302 | 6       | 20       |
| BZ125IM10 | M10  | 2,302 | 5       | 20       |

Window box

| CODE      | SIZE | €/BOX | PCS<br> | BOXES<br> |
|-----------|------|-------|---------|-----------|
| VD125IM04 | M4   | 3,059 | 100     | 8         |
| VD125IM05 | M5   | 3,069 | 75      | 8         |
| VD125IM06 | M6   | 3,879 | 75      | 8         |
| VD125IM08 | M8   | 4,044 | 50      | 8         |
| VD125IM10 | M10  | 6,742 | 50      | 8         |

# DIN-9021

Wide plain washer

## DIN-9021

Zinc-plated

METAL



| CODE    | SIZE | €/100   |     |        |
|---------|------|---------|-----|--------|
| D902103 | M3   | 1,577   | 500 | 22.500 |
| D902104 | M4   | 1,833   | 500 | 12.000 |
| D902106 | M6   | 3,430   | 500 | 12.000 |
| D902105 | M5   | 2,003   | 500 | 12.000 |
| D902108 | M8   | 8,033   | 200 | 4.800  |
| D902110 | M10  | 15,140  | 100 | 2.400  |
| D902112 | M12  | 27,467  | 100 | 1.200  |
| D902114 | M14  | 41,127  | 100 | 800    |
| D902116 | M16  | 47,337  | 50  | 600    |
| D902118 | M18  | 93,900  | 50  | 600    |
| D902120 | M20  | 99,200  | 25  | 300    |
| D902122 | M22  | 247,037 | 25  | 300    |
| D902124 | M24  | 268,127 | 25  | 150    |



Available in different coatings. Ask for price and delivery time.

### Blister

| CODE     | SIZE | €/BAG | PCS | BAGS |
|----------|------|-------|-----|------|
| BZ902103 | M3   | 1,820 | 20  | 20   |
| BZ902104 | M4   | 1,820 | 20  | 20   |
| BZ902105 | M5   | 1,820 | 20  | 20   |
| BZ902106 | M6   | 1,820 | 10  | 20   |
| BZ902108 | M8   | 1,820 | 5   | 20   |
| BZ902110 | M10  | 1,820 | 5   | 20   |
| BZ902112 | M12  | 1,820 | 4   | 20   |

### Window box

| CODE     | SIZE | €/BOX | PCS | BOXES |
|----------|------|-------|-----|-------|
| VD902103 | M3   | 3,442 | 125 | 8     |
| VD902104 | M4   | 3,442 | 125 | 8     |
| VD902105 | M5   | 3,810 | 125 | 8     |
| VD902106 | M6   | 4,458 | 100 | 8     |
| VD902108 | M8   | 5,016 | 50  | 8     |
| VD902110 | M10  | 5,532 | 30  | 8     |
| VD902112 | M12  | 4,994 | 15  | 8     |

## DIN-9021 A2

A2 Stainless steel

STAINLESS STEEL



| CODE      | SIZE | €/100   |     |        |
|-----------|------|---------|-----|--------|
| D9021IM04 | M4   | 2,613   | 500 | 22.500 |
| D9021IM05 | M5   | 4,777   | 500 | 12.000 |
| D9021IM06 | M6   | 8,660   | 500 | 8.000  |
| D9021IM08 | M8   | 17,073  | 200 | 4.800  |
| D9021IM10 | M10  | 38,633  | 100 | 1.600  |
| D9021IM12 | M12  | 66,627  | 100 | 800    |
| D9021IM14 | M14  | 143,743 | 100 | 800    |
| D9021IM16 | M16  | 145,503 | 50  | 600    |
| D9021IM18 | M18  | 260,537 | 50  | 400    |
| D9021IM20 | M20  | 292,100 | 25  | 300    |
| D9021IM22 | M22  | 300,917 | 25  | 200    |
| D9021IM24 | M24  | 346,050 | 25  | 150    |

### Blister

| CODE       | SIZE | €/BAG | PCS | BAGS |
|------------|------|-------|-----|------|
| BZ9021IM04 | M4   | 2,302 | 10  | 20   |
| BZ9021IM05 | M5   | 2,302 | 8   | 20   |
| BZ9021IM06 | M6   | 2,302 | 8   | 20   |
| BZ9021IM08 | M8   | 2,302 | 6   | 20   |
| BZ9021IM10 | M10  | 2,302 | 5   | 20   |

### Window box

| CODE       | SIZE | €/BOX | PCS | BOXES |
|------------|------|-------|-----|-------|
| VD9021IM04 | M4   | 3,313 | 100 | 8     |
| VD9021IM05 | M5   | 4,088 | 75  | 8     |
| VD9021IM06 | M6   | 7,407 | 75  | 8     |
| VD9021IM08 | M8   | 7,787 | 40  | 8     |
| VD9021IM10 | M10  | 8,809 | 20  | 8     |



## Spring washer

## DIN-127

METAL



## DIN-127

Spring washer

| CODE   | SIZE | €/100   |     |        |
|--------|------|---------|-----|--------|
| D12703 | M3   | 0,747   | 500 | 22.500 |
| D12704 | M4   | 0,923   | 500 | 22.500 |
| D12705 | M5   | 1,177   | 500 | 22.500 |
| D12706 | M6   | 1,453   | 500 | 12.000 |
| D12708 | M8   | 2,980   | 200 | 4.800  |
| D12710 | M10  | 4,660   | 100 | 2.400  |
| D12712 | M12  | 6,960   | 100 | 2.400  |
| D12714 | M14  | 10,740  | 100 | 2.400  |
| D12716 | M16  | 18,280  | 50  | 1.200  |
| D12718 | M18  | 19,287  | 50  | 1.200  |
| D12720 | M20  | 26,660  | 25  | 300    |
| D12722 | M22  | 30,613  | 25  | 600    |
| D12724 | M24  | 55,270  | 25  | 600    |
| D12727 | M27  | 80,787  | 25  | 600    |
| D12730 | M30  | 147,997 | 25  | 300    |
| D12736 | M36  | 300,280 | 25  | 300    |



Available in different coatings. Ask for price and delivery time.

## Blister

| CODE    | SIZE | €/BAG | PCS<br>B | BAGS |
|---------|------|-------|----------|------|
| BZ12703 | M3   | 1,820 | 20       | 20   |
| BZ12704 | M4   | 1,820 | 20       | 20   |
| BZ12705 | M5   | 1,820 | 20       | 20   |
| BZ12706 | M6   | 1,820 | 10       | 20   |
| BZ12708 | M8   | 1,820 | 5        | 20   |
| BZ12710 | M10  | 1,820 | 5        | 20   |
| BZ12712 | M12  | 1,820 | 4        | 20   |

## Window box

| CODE    | SIZE | €/BOX | PCS | BOXES |
|---------|------|-------|-----|-------|
| VD12704 | M4   | 2,847 | 100 | 8     |
| VD12705 | M5   | 3,113 | 100 | 8     |
| VD12706 | M6   | 3,940 | 100 | 8     |
| VD12708 | M8   | 3,493 | 50  | 8     |
| VD12710 | M10  | 3,185 | 25  | 8     |
| VD12712 | M12  | 4,183 | 25  | 8     |

METAL



## DIN-127 A2

Grower spring washer DIN-127.  
Stainless steel A2

| CODE     | SIZE | €/100  |     |       |
|----------|------|--------|-----|-------|
| D127IM08 | M8   | 4,530  | 200 | 9.000 |
| D127IM10 | M10  | 7,237  | 100 | 4.500 |
| D127IM12 | M12  | 10,923 | 100 | 4.500 |



# TU-MA

## Wing nut

METAL



Available in different coatings. Ask for price and delivery time.

| CODE    | SIZE | €/100   |     |        |
|---------|------|---------|-----|--------|
| TUMAM03 | M3   | 15,233  | 500 | 12.000 |
| TUMAM04 | M4   | 15,610  | 500 | 8.000  |
| TUMAM05 | M5   | 15,903  | 250 | 6.000  |
| TUMAM06 | M6   | 17,860  | 250 | 6.000  |
| TUMAM08 | M8   | 24,823  | 100 | 2.400  |
| TUMAM10 | M10  | 40,527  | 100 | 1.600  |
| TUMAM12 | M12  | 76,743  | 50  | 1.200  |
| TUMAM14 | M14  | 250,040 | 50  | -      |
| TUMAM16 | M16  | 257,963 | 25  | 300    |

### Blister

| CODE      | SIZE | €/BAG | PCS<br> | BAGS<br> |
|-----------|------|-------|---------|----------|
| BZTUMAM03 | M3   | 2,302 | 10      | 20       |
| BZTUMAM04 | M4   | 2,302 | 10      | 20       |
| BZTUMAM05 | M5   | 2,302 | 10      | 20       |
| BZTUMAM06 | M6   | 2,302 | 10      | 20       |
| BZTUMAM08 | M8   | 2,302 | 5       | 20       |
| BZTUMAM10 | M10  | 2,302 | 5       | 20       |
| BZTUMAM12 | M12  | 2,302 | 3       | 20       |

### Window box

| CODE     | SIZE | €/BOX  | PCS<br> | BOXES<br> |
|----------|------|--------|---------|-----------|
| VTUMAM03 | M3   | 14,741 | 75      | 8         |
| VTUMAM04 | M4   | 15,105 | 75      | 8         |
| VTUMAM05 | M5   | 10,675 | 50      | 8         |
| VTUMAM06 | M6   | 11,526 | 50      | 8         |
| VTUMAM08 | M8   | 8,011  | 25      | 8         |
| VTUMAM10 | M10  | 10,878 | 20      | 8         |
| VTUMAM12 | M12  | 10,301 | 10      | 8         |

# DIN-6798 A

## Serrated lock washer external teeth

METAL



Available in different coatings. Ask for price and delivery time.

| CODE     | SIZE | €/100  |     |        |
|----------|------|--------|-----|--------|
| D6798A03 | M3   | 1,297  | 500 | 22.500 |
| D6798A04 | M4   | 1,533  | 500 | 22.500 |
| D6798A05 | M5   | 1,673  | 500 | 22.500 |
| D6798A06 | M6   | 2,317  | 500 | 22.500 |
| D6798A08 | M8   | 4,507  | 250 | 11.250 |
| D6798A10 | M10  | 8,547  | 250 | 11.250 |
| D6798A12 | M12  | 9,923  | 100 | 4.500  |
| D6798A14 | M14  | 15,447 | 100 | 4.500  |
| D6798A16 | M16  | 19,130 | 100 | 4.500  |



# ▶ PLUGS, TIPS AND ACCESSORIES





# B-HDS

SDS-plus drill bits. High quality

SOLID



| CODE      | SIZE      | €/PC   | MIN. ORDER QTY. |  |  |
|-----------|-----------|--------|-----------------|---|---|
| BHDS06110 | Ø6 x 110  | 20,170 | 2               | 1   | 50  |
| BHDS06160 | Ø6 x 160  | 20,640 | 2               | 1   | 100   |
| BHDS06210 | Ø6 x 210  | 22,123 | 2               | 1   | 150   |
| BHDS08110 | Ø8 x 110  | 20,640 | 2               | 1   | 50  |
| BHDS08160 | Ø8 x 160  | 21,570 | 2               | 1   | 100   |
| BHDS08210 | Ø8 x 210  | 22,587 | 2               | 1   | 150   |
| BHDS10160 | Ø10 x 160 | 23,087 | 2               | 1   | 100   |
| BHDS10210 | Ø10 x 210 | 26,233 | 2               | 1   | 150   |
| BHDS12160 | Ø12 x 160 | 25,807 | 2               | 1   | 100   |
| BHDS12210 | Ø12 x 210 | 28,253 | 2               | 1   | 150   |
| BHDS16210 | Ø16 x 210 | 43,640 | 2               | 1   | 150   |
| BHDS16310 | Ø16 x 260 | 45,320 | 2               | 1   | 200   |

# PU




Bits

## PU-PH

METAL

PH



| CODE    | SIZE | €/100   | LENGTH |  |  |  |
|---------|------|---------|--------|---|---|---|
| PUPHC01 | PH1  | 80,730  | 25     | PH1   | 25  | 1.125   |
| PUPHC02 | PH2  | 80,730  | 25     | PH2   | 25  | 1.125   |
| PUPHC03 | PH3  | 80,730  | 25     | PH3   | 25  | 1.125   |
| PUPHL01 | PH1  | 129,497 | 50     | PH1   | 25  | 1.125   |
| PUPHL02 | PH2  | 129,497 | 50     | PH2   | 25  | 1.125   |
| PUPHL03 | PH3  | 129,497 | 50     | PH3   | 25  | 1.125   |

 Blister




| CODE       | SIZE | €/BAG | PCS PER BAG | BAGS |
|------------|------|-------|-------------|------|
| BZPUPHCL01 | PH1  | 3,071 | 4           | 20   |
| BZPUPHCL02 | PH2  | 3,071 | 4           | 20   |
| BZPUPHCL03 | PH3  | 3,071 | 4           | 20   |

## PU-TO

METAL

TX



| CODE    | SIZE | €/100  | LENGTH |  |  |  |
|---------|------|--------|--------|---|---|---|
| PUT0010 | T10  | 90,950 | 25     | TX10  | 25  | 1.125   |
| PUT0015 | T15  | 90,950 | 25     | TX15  | 25  | 1.125   |
| PUT0020 | T20  | 90,950 | 25     | TX20  | 25  | 1.125   |
| PUT0025 | T25  | 90,950 | 25     | TX25  | 25  | 1.125   |
| PUT0030 | T30  | 90,950 | 25     | TX30  | 25  | 1.125   |
| PUT0040 | T40  | 90,950 | 25     | TX40  | 25  | 1.125   |

 Blister

| CODE      | SIZE    | €/BAG | PCS PER BAG | BAGS |
|-----------|---------|-------|-------------|------|
| BZPUTOT01 | T10+T20 | 3,071 | 2           | 20   |
| BZPUTOT02 | T30+T40 | 3,071 | 2           | 20   |




Bits

PU

METAL

PU-OX

OXBIT

| CODE       | SIZE   | €/100   | LENGTH |  |  |  |
|------------|--------|---------|--------|---|---|---|
| PUOXBITC10 | OXB-10 | 113,690 | 25     | OXB-10  | 25  | 1.125   |
| PUOXBITC15 | OXB-15 | 113,690 | 25     | OXB-15  | 25  | 1.125   |
| PUOXBITC20 | OXB-20 | 113,690 | 25     | OXB-20  | 25  | 1.125   |
| PUOXBITC25 | OXB-25 | 113,690 | 25     | OXB-25  | 25  | 1.125   |
| PUOXBITC30 | OXB-30 | 113,690 | 25     | OXB-30  | 25  | 1.125   |
| PUOXBITC40 | OXB-40 | 113,690 | 25     | OXB-40  | 25  | 1.125   |
| PUOXBITL10 | OXB-10 | 194,700 | 50     | OXB-10  | 25  | 1.125   |
| PUOXBITL15 | OXB-15 | 194,700 | 50     | OXB-15  | 25  | 1.125   |
| PUOXBITL20 | OXB-20 | 194,700 | 50     | OXB-20  | 25  | 1.125   |
| PUOXBITL25 | OXB-25 | 194,700 | 50     | OXB-25  | 25  | 1.125   |
| PUOXBITL30 | OXB-30 | 194,700 | 50     | OXB-30  | 25  | 1.125   |
| PUOXBITL40 | OXB-40 | 194,700 | 50     | OXB-40  | 25  | 1.125   |



## CHARACTERISTICS

### Fits perfectly on the screw:

Guaranteeing that the screw is completely fixed to the bit, allowing for an ergonomic installation in any position and improving the screw guide.

### Optimum transmission of force:

Ensuring the perfect fit in the mortise, increasing the tightening surface and optimising the tightening torque transmission.

### Anti Cam-Out:

The OXBIT bits reduce the "Cam-Out" effect, which is especially high in machinery works and which can cause the bit to slide out of the screw mortises. This increases the useful life of the bits and the mortises.

### Ideal for high performance applications:

Especially designed to guarantee transmission in works with high torque values as it withstands high speeds and the torque of impact drivers.

### Less effort:

It increases transmission of the torque, allowing for installation with less effort, even with elevated torques.




### Increases the bit's useful life:

Thanks to the design of the OXBIT bits and their perfect fitting with the mortises, it is possible to extend both the useful life of the bits and the mortises.

METAL



PU-PO

PZ

| CODE    | SIZE | €/100   | LENGTH |  |  |  |
|---------|------|---------|--------|---|---|---|
| PUPOC01 | PZ1  | 80,730  | 25     | PZ1   | 25  | 1.125   |
| PUPOC02 | PZ2  | 80,730  | 25     | PZ2   | 25  | 1.125   |
| PUPOC03 | PZ3  | 80,730  | 25     | PZ3   | 25  | 1.125   |
| PUPOL01 | PZ1  | 129,497 | 50     | PZ1   | 25  | 1.125   |
| PUPOL02 | PZ2  | 129,497 | 50     | PZ2   | 25  | 1.125   |
| PUPOL03 | PZ3  | 129,497 | 50     | PZ3   | 25  | 1.125   |






 Blister

| CODE       | SIZE | €/BAG | PCS  | BAGS  |
|------------|------|-------|---|--|
| BZPUPOCL01 | PZ1  | 3,071 | 4   | 20   |
| BZPUPOCL02 | PZ2  | 3,071 | 4   | 20   |
| BZPUPOCL03 | PZ3  | 3,071 | 4   | 20   |

METAL

PU-CU

Square

| CODE    | SIZE | €/100   | LENGTH |  |  |  |
|---------|------|---------|--------|---|---|---|
| PUCUC01 | PC1  | 80,730  | 25     | PC1   | 25  | 1.125   |
| PUCUC02 | PC2  | 80,730  | 25     | PC2   | 25  | 1.125   |
| PUCUC03 | PC3  | 80,730  | 25     | PC3   | 25  | 1.125   |
| PUCUL01 | PC1  | 129,497 | 50     | PC1   | 25  | 1.125   |
| PUCUL02 | PC2  | 129,497 | 50     | PC2   | 25  | 1.125   |
| PUCUL03 | PC3  | 129,497 | 50     | PC3   | 25  | 1.125   |





# BOCA

## Magnetic hexagonal nut setter

METAL



| CODE    | SIZE               | €/100          | LENGTH | INSTALLATION KEY |  |  |
|---------|--------------------|----------------|--------|------------------|---|---|
| BOCA006 | 6 mm.              | <b>527,297</b> | 65     | 1/4"             | 5   | 225   |
| BOCA007 | 7 mm.              | <b>527,297</b> | 65     | 1/4"             | 5   | 225   |
| BOCA008 | 8 mm.              | <b>527,297</b> | 65     | 1/4"             | 5   | 225   |
| BOCA010 | 10 mm.             | <b>527,297</b> | 65     | 1/4"             | 5   | 225   |
| BOCA013 | <b>NEW</b> 13 mm.  | <b>527,297</b> | 65     | 1/4"             | 5   | 225   |
| BOCA055 | <b>NEW</b> 5,5 mm. | <b>527,297</b> | 65     | 1/4"             | 5   | 225   |

 Blister


| CODE      | SIZE   | €/BAG        | PCS<br>BAG | BAGS |
|-----------|--------|--------------|------------|------|
| BZBOCA008 | 8 mm.  | <b>4,146</b> | 1          | 20   |
| BZBOCA010 | 10 mm. | <b>4,146</b> | 1          | 20   |

# PU-PM

## 1/4" magnetic bit holder

METAL






| CODE    | SIZE      | €/100          | LENGTH |  |  |
|---------|-----------|----------------|--------|--|--|
| PUPM014 | 1/4" x 60 | <b>593,220</b> | 65     | 5  | 225  |

# ATAP

## Nylon cover cap in colours, for hexagonal-head screws

METAL





| CODE      | COLOR               | €/100        |  |  |  |
|-----------|---------------------|--------------|---|---|---|
| ATAPO08AR | RAL 1001            | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08RC | RAL 3003            | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08RT | RAL 3011            | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08VN | RAL 6028            | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08BP | RAL 9010            | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08NE | RAL 9005            | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08BO | RAL 9002            | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO10AR | RAL 1001            | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10RC | RAL 3003            | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10RT | RAL 3011            | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10VN | RAL 6028            | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10BP | RAL 9010            | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10NE | RAL 9005            | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10BO | RAL 9002            | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO08BS | <b>NEW</b> RAL 9003 | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08GM | <b>NEW</b> RAL 9006 | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08RX | <b>NEW</b> RAL 3009 | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO08PC | <b>NEW</b> RAL 8004 | <b>7,383</b> | 8   | 1.000   | 2.000   |
| ATAPO10BS | <b>NEW</b> RAL 9003 | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10GM | <b>NEW</b> RAL 9006 | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10RX | <b>NEW</b> RAL 3009 | <b>7,383</b> | 10  | 1.000   | 2.000   |
| ATAPO10PC | <b>NEW</b> RAL 8004 | <b>7,383</b> | 10  | 1.000   | 2.000   |

PVC caps for DIN-7504-N and DIN-7981 screws

# TP-CR

METAL



| CODE      | SIZE | €/100 |  |  |
|-----------|------|-------|---|---|
| TPCR042BL | Ø4,2 | 3,570 | 1.000   | 12.000  |
| TPCR048BL | Ø4,8 | 3,570 | 1.000   | 12.000  |
| TPCR055BL | Ø5,5 | 3,570 | 1.000   | 6.000   |



## TP-CR B

White



METAL



| CODE      | SIZE | €/100 |  |  |
|-----------|------|-------|---|---|
| TPCR042NE | Ø4,2 | 3,570 | 1.000   | 12.000  |
| TPCR048NE | Ø4,8 | 3,570 | 1.000   | 12.000  |
| TPCR055NE | Ø5,5 | 3,570 | 1.000   | 6.000   |

## TP-CR N

Black





Plastic caps and self-adhesive screw covers

# TP-TP



WOOD



| CODE     | DIAMETER | COLOR   | €/100 |  |  |
|----------|----------|---------|-------|---|---|
| TPTPADBE | 14       | BEIGE   | 3,523 | 1.000   | 24.000  |
| TPTPADBL | 14       | WHITE   | 3,523 | 1.000   | 24.000  |
| TPTPADCA | 14       | CAOBA   | 3,523 | 1.000   | 24.000  |
| TPTPADCE | 14       | CHERRY  | 3,523 | 1.000   | 24.000  |
| TPTPADGR | 14       | GREY    | 3,523 | 1.000   | 24.000  |
| TPTPADHA | 14       | BEECH   | 3,523 | 1.000   | 24.000  |
| TPTPADNE | 14       | BLACK   | 3,523 | 1.000   | 24.000  |
| TPTPADNO | 14       | WALNUT  | 3,523 | 1.000   | 24.000  |
| TPTPADPI | 14       | PINE    | 3,523 | 1.000   | 24.000  |
| TPTPADRO | 14       | OAK     | 3,523 | 1.000   | 24.000  |
| TPTPADSA | 14       | SAPELLY | 3,523 | 1.000   | 24.000  |



 Blister



































| CODE      | COLOR                  | €/BAG | PCS  | BAGS  |
|-----------|------------------------|-------|---|--|
| BZTTPADBE | BEIGE                  | 1,916 | 20  | 25   |
| BZTTPADBL | BLANCO/WHITE/ BLANC    | 1,916 | 20  | 25   |
| BZTTPADCA | CAOBA/MAHOGANY/ACAJOU  | 1,916 | 20  | 25   |
| BZTTPADCE | CEREZO/CHERRY/CERISIER | 1,916 | 20  | 25   |
| BZTTPADGR | GRIS/GREY/GRIS         | 1,916 | 20  | 25   |
| BZTTPADHA | HAYA/BEECH/HETRE       | 1,916 | 20  | 25   |
| BZTTPADNE | NEGRO/BLACK/NOIR       | 1,916 | 20  | 25   |
| BZTTPADNO | NOGAL/WALNUT/NOYER     | 1,916 | 20  | 25   |
| BZTTPADPI | PINO/PINE/PIN          | 1,916 | 20  | 25   |
| BZTTPADRO | ROBLE/OAK/CHENE        | 1,916 | 20  | 25   |
| BZTTPADSA | SAPELLY                | 1,916 | 20  | 25   |



























**HEAVY METAL CLAMPS**

|  | SIZES (mm)  | RECOMMENDED LOAD kg | COATING   | THICKNESS (mm)  | WIDTH (mm) | OPENING       | COUPLING NUT                       | ASSESSMENT | ISOPHONIC   | CTE   |   |
|--|---|---------------------|---|---|------------|---------------|------------------------------------|------------|---|---|---|
| <b>AB-RA</b>   | APPLICATIONS: Sanitation, Electric  |                     |   |   |            |               |                                    |            |   | P. 248  |   |
|    | Ø 15 - Ø 125  | 80                  |                | 1,5   | 20         | Fast lateral  | M8                                 | -          | -   | -   |   |
| <b>AB-IA</b>   | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |   |            |               |                                    |            |   | P. 249  |   |
|    | Ø 15 - Ø 125  | 80                  |                | 1,5   | 20         | Fast lateral  | M8                                 | -          |    |    |   |
| <b>AB-IR</b>   | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |   |            |               |                                    |            |   | P. 249  |   |
|   | Ø 15 - Ø 60   | 60                  |                | 1,25  | 19         | Fast vertical | M8                                 | -          |    |    |   |
| <b>AB-RE<br/>AB-RE V</b>   | APPLICATIONS: Sanitation, Electric, Ventilation   |                     |   |   |            |               |                                    |            |   | P. 250  |   |
|    | Ø 18 - Ø 1250   | 150 - 200           |                | 1,8 - 2,3   | 19         | Screw         | M8 / M10                           | -          | -   | -   |   |
| <b>AB-RI<br/>AB-RI V</b>   | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |   |            |               |                                    |            |   | P. 252  |   |
|  | Ø 18 - Ø 1250   | 150 - 200           |              | 1,8 - 2,3   | 19         | Screw         | M8 / M10                           | -          |  |  |   |
| <b>AB-RE A2<br/>AB-RE A4</b>   | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |   |            |               |                                    |            |   | P. 251  |   |
|  | Ø 18 - Ø 1250   | 150 - 200           | <br>AB-RE A2 | <br>AB-RE A4 | 1,8 - 2,3  | 19            | Screw                              | M8 / M10   | -   |  |  |
| <b>AB-RI A2<br/>AB-RI A4</b>   | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |   |            |               |                                    |            |   | P. 253  |   |
|  | Ø 18 - Ø 1250   | 150 - 200           | <br>AB-RI A2 | <br>AB-RI A4 | 1,8 - 2,3  | 19            | Screw                              | M8 / M10   | -   |  |  |
| <b>AB-RI DES</b>   | APPLICATIONS: Sanitation, Electric  |                     |   |   |            |               |                                    |            |   | P. 254  |   |
|  | Ø 16 - Ø 160  | 150                 |              | 1,2 - 2,0   | 20         | Fast lateral  | M8 / M10                           | -          |  |  |   |
| <b>AB-ICP</b>  | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |   |            |               |                                    |            |   | P. 254  |   |
|  | Ø 60 - Ø 135  | 200                 |              | 2,75 - 4,0  | 30 - 40    | Screw         | M8 / M10<br>M10 / M12<br>M12 / M16 | -          |  |  |   |

|  | SIZES (mm)  | RECOMMENDED LOAD kg | COATING   | THICKNESS (mm) | WIDTH (mm) | OPENING   | COUPLING NUT                      | ASSESSMENT                   | ISOPHONIC   | CTE    |
|--|---|---------------------|---|----------------|------------|---|-----------------------------------|------------------------------|---|--------|
| <b>AB-AIS</b>  | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |                |            |   |                                   |                              |   | P. 255 |
|    | ∅ 10 - ∅ 219  | 150 - 200           |    | 13 - 40        | 20 - 40    | AB-AIS 13 & 19 Fast lateral<br>AB-AIS 30 & 40 Screw | M8 / M10<br>M8 / M10<br>M12 / M16 | -                            |   |        |
| <b>AB-GA</b>   | APPLICATIONS: Gas   |                     |   |                |            |   |                                   |                              |   | P. 256 |
|    | ∅ 18 - ∅ 160  | 150 - 200           |    | 2              | 19         | Screw   | M8 ≤ ∅54<br>M8 / M10 > ∅54        | According to UNE-EN ISO 4892 | -   | -      |
| <b>AB-M8</b>   | APPLICATIONS: Sanitation, Drainpipe   |                     |   |                |            |   |                                   |                              |   | P. 256 |
|    | ∅ 50 - ∅ 315  | 100                 |    | 1              | 28         | Screw   | M8                                | -                            | -   | -      |
| <b>AB-DE Z<br/>AB-DE G</b>   | APPLICATIONS: Sanitation, Drainpipe   |                     |   |                |            |   |                                   |                              |   | P. 257 |
|    | ∅ 75 - ∅ 315  | 200                 |       | 2,5            | 20         | Screw   | M8                                | -                            | -   | -      |
|  |   |                     | AB-DE Z AB-DE G   |                |            |   |                                   |                              |   |        |
| <b>AB-DP Z<br/>AB-DP G</b>   | APPLICATIONS: Sanitation, Drainpipe   |                     |   |                |            |   |                                   |                              |   | P. 257 |
|  | ∅ 75 - ∅ 250  | 200                 |   | 2,5            | 20         | Screw   | -                                 | -                            | -   | -      |
|  |   |                     | AB-DP Z AB-DP G   |                |            |   |                                   |                              |   |        |
| <b>AB-ZI</b>   | APPLICATIONS: Gas, Sanitation   |                     |   |                |            |   |                                   |                              |   | P. 258 |
|  | ∅ 16 - ∅ 230  | 250 - 350           |    | M6 - M8 - M10  | -          | -   | -                                 | -                            | -   | -      |
| <b>AB-SA</b>   | APPLICATIONS: Gas, Sanitation   |                     |   |                |            |   |                                   |                              |   | P. 259 |
|  | -   | -                   |    | 5 - 6          | -          | -   | -                                 | -                            | -   | -      |
| <b>AB-GP</b>   | APPLICATIONS: Sanitation, Industrial  |                     |   |                |            |   |                                   |                              |   | P. 259 |
|  | ∅ 25 - ∅ 235  | -                   |    | 0,6 - 1,8      | 18 - 25    | Screw   | -                                 | -                            | -   | -      |



# AB-RA

## Reinforced pipe clamp M8 opened

 Technical info  
P. 412

SANITATION



| CODE    | SIZE     | ØD(mm)    | €/100          | SIZE IN INCHES | MAXIMUN LOAD |  |  |
|---------|----------|-----------|----------------|----------------|--------------|---|---|
| ABRA015 | 15 (M8)  | 12-16     | <b>79,300</b>  | 1/4"           | 80           | 50  | 300   |
| ABRA018 | 18 (M8)  | 15 - 19   | <b>79,633</b>  | 3/8"           | 80           | 50  | 300   |
| ABRA022 | 22 (M8)  | 20 - 25   | <b>85,157</b>  | 1/2"           | 80           | 50  | 200   |
| ABRA028 | 28 (M8)  | 26 - 30   | <b>88,713</b>  | 3/4"           | 80           | 50  | 200   |
| ABRA035 | 35 (M8)  | 32 - 36   | <b>94,403</b>  | 1"             | 80           | 50  | 150   |
| ABRA042 | 42 (M8)  | 38 - 43   | <b>99,387</b>  | 1 1/4"         | 80           | 50  | 150   |
| ABRA048 | 48 (M8)  | 47 - 51   | <b>108,873</b> | 1 1/2"         | 80           | 50  | 100   |
| ABRA054 | 54 (M8)  | 53 - 58   | <b>114,407</b> | -              | 80           | 25  | 100   |
| ABRA060 | 60 (M8)  | 60 - 64   | <b>119,773</b> | 2"             | 80           | 25  | 75  |
| ABRA075 | 75 (M8)  | 75 - 80   | <b>134,300</b> | 2 1/2"         | 80           | 25  | 50  |
| ABRA090 | 90 (M8)  | 87 - 92   | <b>142,843</b> | 3"             | 80           | 25  | 50  |
| ABRA100 | 100 (M8) | 99 - 105  | <b>160,423</b> | 3 1/2"         | 80           | 25  | 50  |
| ABRA110 | 110 (M8) | 107 - 112 | <b>161,147</b> | -              | 80           | 25  | 50  |
| ABRA115 | 115 (M8) | 113 - 118 | <b>185,477</b> | 4"             | 80           | 25  | 50  |
| ABRA125 | 125 (M8) | 125 - 130 | <b>185,207</b> | 4 1/2"         | 80           | 25  | 50  |

### APPLICATION EXAMPLES





Reinforced isophonic pipe clamp M8 opened

AB-IA

 Technical info  
P. 412

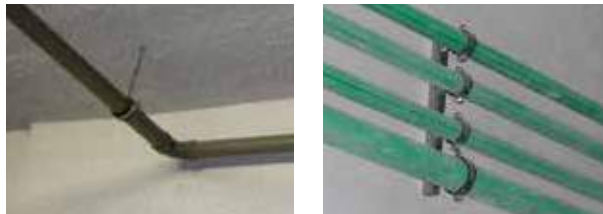
SANITATION



| CODE    | SIZE     | ØD(mm)    | €/100          | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|---------|----------|-----------|----------------|----------------|--------------|---|---|
| ABIA015 | 15 (M8)  | 12-16     | <b>88,963</b>  | 1/4"           | 80           | 50  | 200   |
| ABIA018 | 18 (M8)  | 15 - 19   | <b>94,187</b>  | 3/8"           | 80           | 50  | 200   |
| ABIA022 | 22 (M8)  | 20 - 25   | <b>99,970</b>  | 1/2"           | 80           | 50  | 150   |
| ABIA028 | 28 (M8)  | 26 - 30   | <b>104,340</b> | 3/4"           | 80           | 50  | 100   |
| ABIA035 | 35 (M8)  | 32 - 36   | <b>111,543</b> | 1"             | 80           | 50  | 100   |
| ABIA042 | 42 (M8)  | 38 - 43   | <b>124,013</b> | 1 1/4"         | 80           | 50  | -   |
| ABIA048 | 48 (M8)  | 47 - 51   | <b>141,330</b> | 1 1/2"         | 80           | 50  | -   |
| ABIA054 | 54 (M8)  | 53 - 58   | <b>147,567</b> | -              | 80           | 25  | 50  |
| ABIA060 | 60 (M8)  | 60 - 64   | <b>159,967</b> | 2"             | 80           | 25  | 50  |
| ABIA075 | 75 (M8)  | 75 - 80   | <b>178,937</b> | 2 1/2"         | 80           | 25  | 50  |
| ABIA090 | 90 (M8)  | 87 - 92   | <b>198,803</b> | 3"             | 80           | 25  | 50  |
| ABIA100 | 100 (M8) | 99 - 105  | <b>220,013</b> | 3 1/2"         | 80           | 25  | 50  |
| ABIA110 | 110 (M8) | 107 - 112 | <b>226,967</b> | -              | 80           | 25  | -   |
| ABIA115 | 115 (M8) | 113 - 118 | <b>262,330</b> | 4"             | 80           | 25  | -   |
| ABIA125 | 125 (M8) | 125 - 130 | <b>280,707</b> | 4 1/2"         | 80           | 25  | -   |



APPLICATION EXAMPLES





Isophonic pipe clamp M8 fast-clip

AB-IR

 Technical info  
P. 412

SANITATION



| CODE    | SIZE    | ØD(mm)  | €/100          | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|---------|---------|---------|----------------|----------------|--------------|---|---|
| ABIR015 | 15 (M8) | 14 - 15 | <b>78,613</b>  | 1/4"           | 60           | 50  | 300   |
| ABIR018 | 18 (M8) | 16 - 19 | <b>84,060</b>  | 3/8"           | 60           | 50  | 300   |
| ABIR022 | 22 (M8) | 21 - 23 | <b>87,693</b>  | 1/2"           | 60           | 50  | 200   |
| ABIR028 | 28 (M8) | 26 - 28 | <b>96,827</b>  | 3/4"           | 60           | 50  | 150   |
| ABIR035 | 35 (M8) | 32 - 35 | <b>106,093</b> | 1"             | 60           | 50  | 100   |
| ABIR040 | 40 (M8) | 40 - 43 | <b>119,693</b> | 1 1/4"         | 60           | 25  | 100   |
| ABIR048 | 48 (M8) | 48 - 51 | <b>131,210</b> | 1 1/2"         | 60           | 25  | 100   |
| ABIR054 | 54 (M8) | 52 - 56 | <b>138,243</b> | -              | 60           | 25  | 75  |
| ABIR060 | 60 (M8) | 57 - 60 | <b>145,153</b> | 2"             | 60           | 25  | 75  |



APPLICATION EXAMPLES





# AB-RE

Reinforced pipe clamp M8 + M10

## AB-RE

Zinc-plated



SANITATION



### APPLICATION EXAMPLES



| CODE    | SIZE         | ØD(MM)    | €/100          | SIZE IN INCHES | MAXIMUN LOAD |    |     |
|---------|--------------|-----------|----------------|----------------|--------------|----|-----|
| ABRE018 | 18 (M8+M10)  | 15 - 19   | <b>100,643</b> | 3/8"           | 80           | 50 | 300 |
| ABRE022 | 22 (M8+M10)  | 20 - 25   | <b>103,663</b> | 1/2"           | 80           | 50 | 200 |
| ABRE028 | 28 (M8+M10)  | 26 - 30   | <b>115,097</b> | 3/4"           | 80           | 50 | 150 |
| ABRE035 | 35 (M8+M10)  | 32 - 36   | <b>123,540</b> | 1"             | 80           | 50 | 100 |
| ABRE040 | 40 (M8+M10)  | 38 - 43   | <b>129,680</b> | 1 1/4"         | 80           | 25 | 100 |
| ABRE048 | 48 (M8+M10)  | 47 - 51   | <b>138,670</b> | 1 1/2"         | 80           | 25 | 100 |
| ABRE054 | 54 (M8+M10)  | 53 - 56   | <b>147,917</b> | -              | 80           | 25 | 75  |
| ABRE060 | 60 (M8+M10)  | 60 - 64   | <b>156,503</b> | 2"             | 80           | 25 | 75  |
| ABRE070 | 70 (M8+M10)  | 68 - 72   | <b>163,593</b> | -              | 80           | 25 | 50  |
| ABRE075 | 75 (M8+M10)  | 75 - 80   | <b>167,877</b> | 2 1/2"         | 150          | 25 | 50  |
| ABRE083 | 83 (M8+M10)  | 81 - 86   | <b>175,123</b> | -              | 150          | 25 | -   |
| ABRE090 | 90 (M8+M10)  | 87 - 92   | <b>188,453</b> | 3"             | 150          | 25 | -   |
| ABRE100 | 100 (M8+M10) | 99 - 105  | <b>194,023</b> | 3 1/2"         | 150          | 25 | -   |
| ABRE110 | 110 (M8+M10) | 107 - 112 | <b>210,437</b> | -              | 150          | 25 | -   |
| ABRE115 | 115 (M8+M10) | 113 - 118 | <b>237,013</b> | 4"             | 200          | 25 | -   |
| ABRE125 | 125 (M8+M10) | 125 - 130 | <b>253,383</b> | 4 1/2"         | 200          | 25 | -   |
| ABRE133 | 133 (M8+M10) | 132 - 137 | <b>277,533</b> | -              | 200          | 25 | -   |
| ABRE140 | 140 (M8+M10) | 138 - 142 | <b>314,137</b> | 5"             | 200          | 25 | -   |
| ABRE150 | 150 (M8+M10) | 148 - 152 | <b>319,370</b> | -              | 200          | 25 | -   |
| ABRE160 | 160 (M8+M10) | 159 - 166 | <b>335,080</b> | 6"             | 200          | 25 | -   |
| ABRE180 | 180 (M8+M10) | 179 - 184 | <b>355,630</b> | -              | 200          | 25 | -   |
| ABRE200 | 200 (M8+M10) | 199 - 212 | <b>386,783</b> | -              | 200          | 25 | -   |
| ABRE220 | 220 (M8+M10) | 215 - 226 | <b>440,897</b> | 8"             | 200          | 25 | -   |
| ABRE250 | 250 (M8+M10) | 245 - 254 | <b>488,557</b> | -              | 200          | 25 | -   |
| ABRE280 | 280 (M8+M10) | 278 - 284 | <b>558,153</b> | -              | 200          | 25 | -   |
| ABRE300 | 300 (M8+M10) | 299 - 304 | <b>627,750</b> | -              | 200          | 25 | -   |
| ABRE315 | 315 (M8+M10) | 314 - 319 | <b>705,973</b> | -              | 200          | 25 | -   |
| ABRE355 | 355 (M8+M10) | 354 - 359 | <b>894,620</b> | -              | 200          | 25 | -   |

### Self-service

| CODE      | SIZE         | €/BAG        | PCS | BAGS |
|-----------|--------------|--------------|-----|------|
| LSABRE022 | 22 (M8+M10)  | <b>4,711</b> | 2   | 5    |
| LSABRE028 | 28 (M8+M10)  | <b>4,825</b> | 2   | 5    |
| LSABRE035 | 35 (M8+M10)  | <b>4,931</b> | 2   | 5    |
| LSABRE040 | 40 (M8+M10)  | <b>5,064</b> | 2   | 5    |
| LSABRE048 | 48 (M8+M10)  | <b>4,964</b> | 2   | 5    |
| LSABRE060 | 60 (M8+M10)  | <b>5,196</b> | 2   | 5    |
| LSABRE075 | 75 (M8+M10)  | <b>5,451</b> | 2   | 5    |
| LSABRE090 | 90 (M8+M10)  | <b>6,691</b> | 2   | 5    |
| LSABRE110 | 110 (M8+M10) | <b>6,941</b> | 2   | 5    |
| LSABRE125 | 125 (M8+M10) | <b>8,024</b> | 2   | 4    |

**KIT**  
AB-RE + ES-DR  
+ T4S



## AB-RE V

Zinc-plated. Ventilation

SANITATION



| CODE    | SIZE          | ØD(mm)        | €/100            | SIZE IN INCHES | MAXIMUN LOAD |    |
|---------|---------------|---------------|------------------|----------------|--------------|----|
| ABRE400 | 400 (M8+M10)  | 399 - 404     | <b>1.057,027</b> | -              | 200          | 25 |
| ABRE450 | 450 (M8+M10)  | 449 - 454     | <b>1.288,993</b> | -              | 200          | 10 |
| ABRE500 | 500 (M8+M10)  | 499 - 504     | <b>1.268,563</b> | -              | 200          | 10 |
| ABRE560 | 560 (M8+M10)  | 555 - 561     | <b>1.517,440</b> | -              | 200          | 10 |
| ABRE600 | 600 (M8+M10)  | 599 - 604     | <b>1.615,007</b> | -              | 200          | 10 |
| ABRE630 | 630 (M8+M10)  | 625 - 631     | <b>1.727,883</b> | -              | 200          | 10 |
| ABRE710 | 710 (M8+M10)  | 705 - 711     | <b>1.947,927</b> | -              | 200          | 10 |
| ABRE800 | 800 (M8+M10)  | 799 - 804     | <b>2.155,110</b> | -              | 200          | 10 |
| ABRE900 | 900 (M8+M10)  | 899 - 904     | <b>2.389,130</b> | -              | 200          | 10 |
| ABRE910 | 1000 (M8+M10) | 999 - 1.004   | <b>2.676,587</b> | -              | 200          | 10 |
| ABRE911 | 1120 (M8+M10) | 1.115 - 1.121 | <b>2.930,543</b> | -              | 200          | 10 |
| ABRE912 | 1250 (M8+M10) | 1.245 - 1.251 | <b>3.218,523</b> | -              | 200          | 10 |



Reinforced pipe clamp M8 + M10

# AB-RE

 Technical info  
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STAINLESS STEEL



| CODE      | SIZE         | ØD(mm)    | €/100            | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|-----------|--------------|-----------|------------------|----------------|--------------|---|---|
| ABREA2018 | 18 (M8+M10)  | 15 - 18   | <b>332,580</b>   | 3/8"           | 150          | 50  | 300   |
| ABREA2022 | 22 (M8+M10)  | 20 - 24   | <b>349,760</b>   | 1/2"           | 150          | 50  | 200   |
| ABREA2028 | 28 (M8+M10)  | 26 - 30   | <b>383,987</b>   | 3/4"           | 150          | 50  | 150   |
| ABREA2035 | 35 (M8+M10)  | 32 - 36   | <b>401,780</b>   | 1"             | 150          | 50  | 100   |
| ABREA2040 | 40 (M8+M10)  | 36 - 42   | <b>425,290</b>   | 1 1/4"         | 150          | 25  | 100   |
| ABREA2048 | 48 (M8+M10)  | 47 - 50   | <b>448,373</b>   | 1 1/2"         | 150          | 25  | 100   |
| ABREA2054 | 54 (M8+M10)  | 51 - 55   | <b>473,533</b>   | -              | 150          | 25  | 75  |
| ABREA2060 | 60 (M8+M10)  | 60 - 64   | <b>503,620</b>   | 2"             | 150          | 25  | 75  |
| ABREA2075 | 75 (M8+M10)  | 75 - 80   | <b>570,457</b>   | 2 1/2"         | 150          | 25  | 50  |
| ABREA2090 | 90 (M8+M10)  | 87 - 92   | <b>656,360</b>   | 3"             | 150          | 25  | -   |
| ABREA2110 | 110 (M8+M10) | 106 - 112 | <b>710,090</b>   | -              | 150          | 25  | -   |
| ABREA2115 | 115 (M8+M10) | 114 - 119 | <b>740,700</b>   | 4"             | 150          | 25  | -   |
| ABREA2125 | 125 (M8+M10) | 124 - 131 | <b>794,473</b>   | 4 1/2"         | 150          | 25  | -   |
| ABREA2140 | 140 (M8+M10) | 133 - 140 | <b>878,120</b>   | 5"             | 150          | 25  | -   |
| ABREA2160 | 160 (M8+M10) | 159 - 163 | <b>1.002,177</b> | 6"             | 150          | 25  | -   |
| ABREA2200 | 200 (M8+M10) | 199 - 212 | <b>1.397,923</b> | -              | 150          | 25  | -   |

## AB-RE A2



A2 Stainless steel



 Technical info  
P. 614

STAINLESS STEEL



| CODE      | SIZE         | ØD(mm)    | €/100            | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|-----------|--------------|-----------|------------------|----------------|--------------|---|---|
| ABREA4018 | 18 (M8+M10)  | 15 - 18   | <b>434,490</b>   | 3/8"           | 150          | 50  | 300   |
| ABREA4022 | 22 (M8+M10)  | 20 - 24   | <b>459,373</b>   | 1/2"           | 150          | 50  | 200   |
| ABREA4028 | 28 (M8+M10)  | 26 - 30   | <b>490,617</b>   | 3/4"           | 150          | 50  | 150   |
| ABREA4035 | 35 (M8+M10)  | 32 - 36   | <b>512,520</b>   | 1"             | 150          | 50  | 100   |
| ABREA4040 | 40 (M8+M10)  | 36 - 42   | <b>549,773</b>   | 1 1/4"         | 150          | 25  | 100   |
| ABREA4048 | 48 (M8+M10)  | 47 - 50   | <b>593,963</b>   | 1 1/2"         | 150          | 25  | 100   |
| ABREA4054 | 54 (M8+M10)  | 51 - 55   | <b>619,670</b>   | -              | 150          | 25  | 75  |
| ABREA4060 | 60 (M8+M10)  | 60 - 64   | <b>660,557</b>   | 2"             | 150          | 25  | 75  |
| ABREA4075 | 75 (M8+M10)  | 75 - 80   | <b>732,887</b>   | 2 1/2"         | 150          | 25  | 50  |
| ABREA4090 | 90 (M8+M10)  | 87 - 92   | <b>803,653</b>   | 3"             | 150          | 25  | -   |
| ABREA4110 | 110 (M8+M10) | 106 - 112 | <b>925,417</b>   | -              | 150          | 25  | -   |
| ABREA4115 | 115 (M8+M10) | 114 - 119 | <b>992,830</b>   | 4"             | 150          | 25  | -   |
| ABREA4125 | 125 (M8+M10) | 124 - 131 | <b>1.045,960</b> | 4 1/2"         | 150          | 25  | -   |
| ABREA4140 | 140 (M8+M10) | 133 - 140 | <b>1.238,123</b> | 5"             | 150          | 25  | -   |
| ABREA4160 | 160 (M8+M10) | 159 - 163 | <b>1.359,077</b> | -              | 150          | 25  | -   |
| ABREA4200 | 200 (M8+M10) | 199 - 212 | <b>1.649,190</b> | -              | 150          | 25  | -   |

## AB-RE A4

A4 Stainless steel



### APPLICATION EXAMPLES

# AB-RI

Reinforced isophonic pipe clamp M8 + M10

## AB-RI

Zinc-plated

Technical info  
P. 413

SANITATION



### APPLICATION EXAMPLES



| CODE    | SIZE         | ØD(MM)    | €/100            | SIZE IN INCHES | MAXIMUM LOAD |    |     |
|---------|--------------|-----------|------------------|----------------|--------------|----|-----|
| ABRI018 | 18 (M8+M10)  | 15 - 19   | <b>118,963</b>   | 3/8"           | 80           | 50 | 200 |
| ABRI022 | 22 (M8+M10)  | 20 - 25   | <b>126,633</b>   | 1/2"           | 80           | 50 | 150 |
| ABRI028 | 28 (M8+M10)  | 26 - 30   | <b>136,453</b>   | 3/4"           | 80           | 50 | 150 |
| ABRI035 | 35 (M8+M10)  | 32 - 36   | <b>144,300</b>   | 1"             | 80           | 50 | 100 |
| ABRI040 | 40 (M8+M10)  | 38 - 43   | <b>163,937</b>   | 1 1/4"         | 80           | 25 | 75  |
| ABRI048 | 48 (M8+M10)  | 47 - 51   | <b>176,703</b>   | 1 1/2"         | 80           | 25 | 75  |
| ABRI054 | 54 (M8+M10)  | 53 - 56   | <b>186,523</b>   | -              | 80           | 25 | 50  |
| ABRI060 | 60 (M8+M10)  | 60 - 64   | <b>206,157</b>   | 2"             | 80           | 25 | 50  |
| ABRI070 | 70 (M8+M10)  | 68 - 72   | <b>213,520</b>   | -              | 80           | 25 | -   |
| ABRI075 | 75 (M8+M10)  | 75 - 80   | <b>237,520</b>   | 2 1/2"         | 150          | 25 | -   |
| ABRI083 | 83 (M8+M10)  | 81 - 86   | <b>240,507</b>   | -              | 150          | 25 | -   |
| ABRI090 | 90 (M8+M10)  | 87 - 92   | <b>264,667</b>   | 3"             | 150          | 25 | -   |
| ABRI100 | 100 (M8+M10) | 99 - 105  | <b>274,870</b>   | 3 1/2"         | 150          | 25 | -   |
| ABRI110 | 110 (M8+M10) | 107 - 112 | <b>319,043</b>   | -              | 150          | 25 | -   |
| ABRI115 | 115 (M8+M10) | 113 - 118 | <b>338,677</b>   | 4"             | 200          | 25 | -   |
| ABRI125 | 125 (M8+M10) | 125 - 130 | <b>370,587</b>   | 4 1/2"         | 200          | 25 | -   |
| ABRI133 | 133 (M8+M10) | 132 - 137 | <b>375,500</b>   | -              | 200          | 25 | -   |
| ABRI140 | 140 (M8+M10) | 138 - 142 | <b>422,133</b>   | 5"             | 200          | 25 | -   |
| ABRI150 | 150 (M8+M10) | 148 - 152 | <b>431,457</b>   | -              | 200          | 25 | -   |
| ABRI160 | 160 (M8+M10) | 159 - 166 | <b>466,297</b>   | 6"             | 200          | 25 | -   |
| ABRI180 | 180 (M8+M10) | 179 - 184 | <b>478,613</b>   | -              | 200          | 25 | -   |
| ABRI200 | 200 (M8+M10) | 196 - 203 | <b>530,113</b>   | -              | 200          | 25 | -   |
| ABRI220 | 220 (M8+M10) | 215 - 226 | <b>608,647</b>   | 8"             | 200          | 25 | -   |
| ABRI250 | 250 (M8+M10) | 245 - 254 | <b>684,257</b>   | -              | 200          | 25 | -   |
| ABRI280 | 280 (M8+M10) | 278 - 284 | <b>731,460</b>   | -              | 200          | 25 | -   |
| ABRI300 | 300 (M8+M10) | 299 - 304 | <b>778,663</b>   | -              | 200          | 25 | -   |
| ABRI315 | 315 (M8+M10) | 314 - 319 | <b>866,930</b>   | -              | 200          | 25 | -   |
| ABRI355 | 355 (M8+M10) | 354 - 359 | <b>1.219,363</b> | -              | 200          | 25 | -   |

### Self-service

| CODE       | SIZE         | €/BAG        | PCS | BAGS |
|------------|--------------|--------------|-----|------|
| LSABRIT022 | 22 (M8+M10)  | <b>5,141</b> | 2   | 5    |
| LSABRIT028 | 28 (M8+M10)  | <b>5,289</b> | 2   | 5    |
| LSABRIT035 | 35 (M8+M10)  | <b>5,466</b> | 2   | 5    |
| LSABRIT040 | 40 (M8+M10)  | <b>5,466</b> | 2   | 5    |
| LSABRIT048 | 48 (M8+M10)  | <b>5,668</b> | 2   | 5    |
| LSABRIT060 | 60 (M8+M10)  | <b>6,059</b> | 2   | 5    |
| LSABRIT075 | 75 (M8+M10)  | <b>6,534</b> | 2   | 5    |
| LSABRIT090 | 90 (M8+M10)  | <b>7,509</b> | 2   | 5    |
| LSABRIT110 | 110 (M8+M10) | <b>8,800</b> | 2   | 4    |

**KIT**  
AB-RI + ES-DR  
+ T4S



## AB-RI V

Zinc-plated. Ventilation

SANITATION



| CODE    | SIZE          | ØD(mm)        | €/100            | SIZE IN INCHES | MAXIMUM LOAD |    |
|---------|---------------|---------------|------------------|----------------|--------------|----|
| ABRI400 | 400 (M8+M10)  | 399 - 404     | <b>1.323,477</b> | -              | 200          | 25 |
| ABRI450 | 450 (M8+M10)  | 449 - 454     | <b>1.593,797</b> | -              | 200          | 10 |
| ABRI500 | 500 (M8+M10)  | 499 - 504     | <b>1.635,647</b> | -              | 200          | 10 |
| ABRI560 | 560 (M8+M10)  | 555 - 561     | <b>1.815,317</b> | -              | 200          | 10 |
| ABRI600 | 600 (M8+M10)  | 599 - 604     | <b>2.002,183</b> | -              | 200          | 10 |
| ABRI630 | 630 (M8+M10)  | 625 - 631     | <b>2.173,960</b> | -              | 200          | 10 |
| ABRI710 | 710 (M8+M10)  | 705 - 711     | <b>2.519,180</b> | -              | 200          | 10 |
| ABRI800 | 800 (M8+M10)  | 799 - 804     | <b>2.737,400</b> | -              | 200          | 10 |
| ABRI900 | 900 (M8+M10)  | 899 - 904     | <b>3.107,333</b> | -              | 200          | 10 |
| ABRI910 | 1000 (M8+M10) | 999 - 1.004   | <b>3.542,093</b> | -              | 200          | 10 |
| ABRI911 | 1120 (M8+M10) | 1.115 - 1.121 | <b>3.913,127</b> | -              | 200          | 10 |
| ABRI912 | 1250 (M8+M10) | 1.245 - 1.251 | <b>4.283,053</b> | -              | 200          | 10 |

Reinforced isophonic pipe clamp M8 + M10

# AB-RI



 Technical info  
P. 614

STAINLESS STEEL



## AB-RI A2

A2 Stainless steel

| CODE      | SIZE         | ØD(mm)    | €/100            | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|-----------|--------------|-----------|------------------|----------------|--------------|---|---|
| ABRIA2018 | 18 (M8+M10)  | 15 - 18   | <b>437,957</b>   | 3/8"           | 150          | 50  | 200   |
| ABRIA2022 | 22 (M8+M10)  | 20 - 24   | <b>450,040</b>   | 1/2"           | 150          | 50  | 150   |
| ABRIA2028 | 28 (M8+M10)  | 26 - 30   | <b>470,067</b>   | 3/4"           | 150          | 50  | 150   |
| ABRIA2035 | 35 (M8+M10)  | 32 - 36   | <b>494,553</b>   | 1"             | 150          | 50  | 100   |
| ABRIA2040 | 40 (M8+M10)  | 36 - 42   | <b>521,510</b>   | 1 1/4"         | 150          | 25  | 75  |
| ABRIA2048 | 48 (M8+M10)  | 47 - 50   | <b>552,720</b>   | 1 1/2"         | 150          | 25  | 75  |
| ABRIA2054 | 54 (M8+M10)  | 51 - 55   | <b>603,450</b>   | -              | 150          | 25  | 50  |
| ABRIA2060 | 60 (M8+M10)  | 60 - 64   | <b>636,210</b>   | 2"             | 150          | 25  | 50  |
| ABRIA2075 | 75 (M8+M10)  | 75 - 80   | <b>716,740</b>   | 2 1/2"         | 150          | 25  | -   |
| ABRIA2090 | 90 (M8+M10)  | 87 - 92   | <b>774,940</b>   | 3"             | 150          | 25  | -   |
| ABRIA2110 | 110 (M8+M10) | 106 - 112 | <b>861,733</b>   | -              | 150          | 25  | -   |
| ABRIA2115 | 115 (M8+M10) | 114 - 119 | <b>885,613</b>   | 4"             | 150          | 25  | -   |
| ABRIA2125 | 125 (M8+M10) | 124 - 131 | <b>954,507</b>   | 4 1/2"         | 150          | 25  | -   |
| ABRIA2140 | 140 (M8+M10) | 133 - 140 | <b>988,260</b>   | 5"             | 150          | 25  | -   |
| ABRIA2160 | 160 (M8+M10) | 159 - 163 | <b>1.108,780</b> | 6"             | 150          | 25  | -   |





 Technical info  
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STAINLESS STEEL



## AB-RI A4

A4 Stainless steel

| CODE      | SIZE         | ØD(mm)    | €/100            | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|-----------|--------------|-----------|------------------|----------------|--------------|---|---|
| ABRIA4018 | 18 (M8+M10)  | 15 - 18   | <b>546,720</b>   | 3/8"           | 150          | 50  | 200   |
| ABRIA4022 | 22 (M8+M10)  | 20 - 24   | <b>574,767</b>   | 1/2"           | 150          | 50  | 150   |
| ABRIA4028 | 28 (M8+M10)  | 26 - 30   | <b>599,950</b>   | 3/4"           | 150          | 50  | 150   |
| ABRIA4035 | 35 (M8+M10)  | 32 - 36   | <b>644,877</b>   | 1"             | 150          | 50  | 100   |
| ABRIA4040 | 40 (M8+M10)  | 36 - 42   | <b>695,083</b>   | 1 1/4"         | 150          | 25  | 75  |
| ABRIA4048 | 48 (M8+M10)  | 47 - 50   | <b>747,293</b>   | 1 1/2"         | 150          | 25  | 75  |
| ABRIA4054 | 54 (M8+M10)  | 51 - 55   | <b>784,260</b>   | -              | 150          | 25  | 50  |
| ABRIA4060 | 60 (M8+M10)  | 60 - 64   | <b>857,263</b>   | 2"             | 150          | 25  | 50  |
| ABRIA4075 | 75 (M8+M10)  | 75 - 80   | <b>937,940</b>   | 2 1/2"         | 150          | 25  | -   |
| ABRIA4090 | 90 (M8+M10)  | 87 - 92   | <b>1.029,127</b> | 3"             | 150          | 25  | -   |
| ABRIA4110 | 110 (M8+M10) | 106 - 112 | <b>1.213,387</b> | -              | 150          | 25  | -   |
| ABRIA4115 | 115 (M8+M10) | 114 - 119 | <b>1.261,460</b> | 4"             | 150          | 25  | -   |
| ABRIA4125 | 125 (M8+M10) | 124 - 131 | <b>1.336,367</b> | 4 1/2"         | 150          | 25  | -   |
| ABRIA4140 | 140 (M8+M10) | 133 - 140 | <b>1.449,203</b> | 5"             | 150          | 25  | -   |
| ABRIA4160 | 160 (M8+M10) | 159 - 163 | <b>1.660,183</b> | 6"             | 150          | 25  | -   |



### APPLICATION EXAMPLES



# AB-RI DES

Reinforced isophonic sliding pipe clamp M8+M10



| CODE     | SIZE | €/100   |     |
|----------|------|---------|-----|
| ABRID016 | 16   | 189,557 | 150 |
| ABRID020 | 20   | 197,453 | 100 |
| ABRID025 | 25   | 209,300 | 100 |
| ABRID032 | 32   | 229,050 | 100 |
| ABRID040 | 40   | 248,790 | 50  |
| ABRID050 | 50   | 317,900 | 50  |
| ABRID063 | 63   | 398,853 | 50  |
| ABRID075 | 75   | 454,143 | 50  |
| ABRID090 | 90   | 501,533 | 50  |
| ABRID110 | 110  | 651,600 | 25  |
| ABRID125 | 125  | 789,813 | 25  |
| ABRID140 | 140  | 837,203 | 20  |
| ABRID160 | 160  | 967,523 | 20  |

# PA-EX

Expansion guide



| CODE    | SIZE      | €/100     |    |
|---------|-----------|-----------|----|
| PAEXM08 | M8 x 180  | 3.217,517 | 50 |
| PAEXM10 | M10 x 180 | 3.217,517 | 50 |

# CO-AR

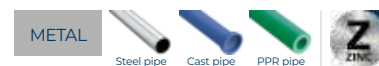
Articulated hanger



| CODE      | SIZE     | €/100   |    |     |
|-----------|----------|---------|----|-----|
| COAR08060 | M8 x 60  | 221,313 | 50 | 300 |
| COAR10060 | M10 x 60 | 340,480 | 50 | 300 |

# AB-ICP

Reinforced isophonic pipe clamp for heavy duty



| CODE     | SIZE          | ØD(mm)    | €/100     |    |
|----------|---------------|-----------|-----------|----|
| ABICP060 | 60 (M8+M10)   | 60 - 64   | 822,153   | 25 |
| ABICP075 | 75 (M10+M12)  | 75 - 80   | 1.004,853 | 25 |
| ABICP090 | 90 (M10+M12)  | 87 - 92   | 1.096,203 | 25 |
| ABICP110 | 110 (M10+M12) | 107 - 112 | 1.256,063 | 25 |
| ABICP140 | 140 (M12+M16) | 138 - 142 | 2.192,407 | 25 |
| ABICP160 | 160 (M12+M16) | 159 - 166 | 2.603,480 | 25 |
| ABICP220 | 220 (M12+M16) | 215 - 226 | 3.425,633 | 10 |
| ABICP270 | 270 (M12+M16) | 268 - 274 | 4.292,030 | 10 |
| ABICP315 | 315 (M12+M16) | 314 - 319 | 4.867,253 | 10 |




## Thermal insulation pipe clamp

## AB-AIS



## AB-AIS 13


13 mm

| CODE       | SIZE | €/100   | THICKNESS |  |
|------------|------|---------|-----------|--|
| ABAI513010 | Ø10  | 780,037 | 13        | 50   |
| ABAI513012 | Ø12  | 800,037 | 13        | 50   |
| ABAI513015 | Ø15  | 820,033 | 13        | 50   |
| ABAI513018 | Ø18  | 880,040 | 13        | 50   |
| ABAI513022 | Ø22  | 940,040 | 13        | 50   |
| ABAI513028 | Ø28  | 980,043 | 13        | 50   |



## AB-AIS 19

19 mm

| CODE       | SIZE | €/100     | THICKNESS |  |
|------------|------|-----------|-----------|--|
| ABAI519010 | Ø10  | 960,040   | 19        | 50   |
| ABAI519012 | Ø12  | 980,043   | 19        | 50   |
| ABAI519015 | Ø15  | 1.040,047 | 19        | 50   |
| ABAI519017 | Ø17  | 1.040,047 | 19        | 50   |
| ABAI519018 | Ø18  | 1.060,043 | 19        | 50   |
| ABAI519022 | Ø22  | 1.080,047 | 19        | 50   |
| ABAI519028 | Ø28  | 1.160,050 | 19        | 50   |
| ABAI519035 | Ø35  | 1.240,053 | 19        | 50   |
| ABAI519042 | Ø42  | 1.340,060 | 19        | 25   |
| ABAI519054 | Ø54  | 1.520,070 | 19        | 25   |
| ABAI519060 | Ø60  | 1.680,077 | 19        | 25   |
| ABAI519064 | Ø64  | 1.840,083 | 19        | 25   |
| ABAI519067 | Ø67  | 1.960,087 | 19        | 25   |
| ABAI519076 | Ø76  | 2.100,093 | 19        | 25   |
| ABAI519080 | Ø80  | 2.200,097 | 19        | 25   |
| ABAI519114 | Ø114 | 3.000,130 | 19        | 10   |



## AB-AIS 30

30 mm

| CODE       | SIZE | €/100     | THICKNESS |  |
|------------|------|-----------|-----------|--|
| ABAI530027 | Ø27  | 1.460,063 | 30        | 50   |
| ABAI530034 | Ø34  | 1.580,070 | 30        | 50   |
| ABAI530042 | Ø42  | 1.680,077 | 30        | 25   |
| ABAI530049 | Ø49  | 1.740,077 | 30        | 25   |
| ABAI530054 | Ø54  | 2.100,093 | 30        | 25   |
| ABAI530060 | Ø60  | 2.140,097 | 30        | 25   |
| ABAI530076 | Ø76  | 2.240,100 | 30        | 25   |
| ABAI530089 | Ø89  | 2.380,103 | 30        | 25   |
| ABAI530108 | Ø108 | 3.300,143 | 30        | 10   |
| ABAI530114 | Ø114 | 3.400,150 | 30        | 10   |



## AB-AIS 40

40 mm

| CODE       | SIZE | €/100     | THICKNESS |  |
|------------|------|-----------|-----------|--|
| ABAI540049 | Ø49  | 2.180,093 | 40        | 25   |
| ABAI540060 | Ø60  | 2.560,110 | 40        | 25   |
| ABAI540089 | Ø89  | 3.080,133 | 40        | 25   |
| ABAI540114 | Ø114 | 4.800,210 | 40        | 10   |
| ABAI540133 | Ø133 | 5.180,230 | 40        | 10   |
| ABAI540140 | Ø140 | 5.600,247 | 40        | 10   |
| ABAI540159 | Ø159 | 6.400,283 | 40        | 10   |
| ABAI540168 | Ø168 | 6.800,300 | 40        | 10   |
| ABAI540219 | Ø219 | 8.200,363 | 40        | 5  |



# AB-GA

Pipe clamp for gas M8 + M10 yellow coated

Technical info  
P. 415

SANITATION



| CODE    | SIZE         | ØD(mm)    | €/100          | SIZE IN INCHES | MAXIMUN LOAD |    |     |
|---------|--------------|-----------|----------------|----------------|--------------|----|-----|
| ABGA018 | 18 (M8)      | 15 - 18   | <b>100,603</b> | 3/8"           | 200          | 50 | 300 |
| ABGA022 | 22 (M8)      | 20 - 24   | <b>106,050</b> | 1/2"           | 200          | 50 | 200 |
| ABGA028 | 28 (M8)      | 26 - 30   | <b>112,753</b> | 3/4"           | 200          | 50 | 150 |
| ABGA035 | 35 (M8)      | 32 - 36   | <b>120,883</b> | 1"             | 200          | 50 | 100 |
| ABGA040 | 40 (M8)      | 38 - 42   | <b>127,160</b> | 1 1/4"         | 200          | 50 | 100 |
| ABGA048 | 48 (M8)      | 47 - 50   | <b>133,590</b> | 1 1/2"         | 200          | 50 | 100 |
| ABGA054 | 54 (M8)      | 52 - 56   | <b>142,250</b> | -              | 200          | 25 | 75  |
| ABGA060 | 60 (M8/M10)  | 60 - 64   | <b>152,210</b> | 2"             | 200          | 25 | 75  |
| ABGA075 | 75 (M8/M10)  | 75 - 80   | <b>181,893</b> | 2 1/2"         | 200          | 25 | 50  |
| ABGA090 | 90 (M8/M10)  | 85 - 90   | <b>192,220</b> | 3"             | 200          | 25 | -   |
| ABGA100 | 100 (M8/M10) | 99 - 105  | <b>211,217</b> | 3 1/2"         | 200          | 25 | -   |
| ABGA110 | 110 (M8/M10) | 107 - 112 | <b>239,200</b> | -              | 200          | 25 | -   |
| ABGA115 | 115 (M8/M10) | 113 - 118 | <b>242,450</b> | 4"             | 200          | 25 | -   |
| ABGA140 | 140 (M8/M10) | 138 - 142 | <b>284,537</b> | 5"             | 200          | 25 | -   |
| ABGA160 | 160 (M8/M10) | 159 - 166 | <b>300,233</b> | 6"             | 200          | 25 | -   |

Self-service

| CODE       | SIZE         | €/BAG        | PCS | BAGS |
|------------|--------------|--------------|-----|------|
| LSABGAT022 | 22 (M8)      | <b>4,747</b> | 2   | 6    |
| LSABGAT028 | 28 (M8)      | <b>4,847</b> | 2   | 6    |
| LSABGAT035 | 35 (M8)      | <b>4,768</b> | 2   | 6    |
| LSABGAT040 | 40 (M8)      | <b>5,129</b> | 2   | 6    |
| LSABGAT048 | 48 (M8)      | <b>5,036</b> | 2   | 6    |
| LSABGAT060 | 60 (M8/M10)  | <b>5,385</b> | 2   | 6    |
| LSABGAT075 | 75 (M8/M10)  | <b>5,770</b> | 2   | 6    |
| LSABGAT090 | 90 (M8/M10)  | <b>6,320</b> | 2   | 6    |
| LSABGAT110 | 110 (M8/M10) | <b>8,550</b> | 2   | 5    |

**KIT**  
AB-GA + ES-DR  
+ T4S



## APPLICATION EXAMPLES



# AB-M8

Drainpipe clamp M8

Technical info  
P. 415

SANITATION



| CODE    | SIZE     | ØD(mm)    | €/100          | MAXIMUN LOAD |     |
|---------|----------|-----------|----------------|--------------|-----|
| ABM8050 | 50 (M8)  | 49 - 54   | <b>137,893</b> | 100          | 100 |
| ABM8063 | 63 (M8)  | 60 - 65   | <b>135,437</b> | 100          | 100 |
| ABM8075 | 75 (M8)  | 75 - 80   | <b>145,757</b> | 100          | 100 |
| ABM8090 | 90 (M8)  | 88 - 92   | <b>155,880</b> | 100          | 100 |
| ABM8110 | 110 (M8) | 108 - 113 | <b>172,367</b> | 100          | 100 |
| ABM8125 | 125 (M8) | 124 - 130 | <b>180,800</b> | 100          | 100 |
| ABM8160 | 160 (M8) | 159 - 165 | <b>224,197</b> | 100          | 100 |
| ABM8200 | 200 (M8) | 199 - 203 | <b>266,187</b> | 100          | 100 |
| ABM8250 | 250 (M8) | 249 - 254 | <b>340,193</b> | 100          | 50  |
| ABM8315 | 315 (M8) | 314 - 319 | <b>737,647</b> | 100          | 50  |

Self-service

| CODE      | SIZE     | €/BAG        | PCS | BAGS |
|-----------|----------|--------------|-----|------|
| LSABM8090 | 90 (M8)  | <b>3,754</b> | 2   | 6    |
| LSABM8110 | 110 (M8) | <b>3,920</b> | 2   | 6    |
| LSABM8125 | 125 (M8) | <b>2,677</b> | 1   | 8    |
| LSABM8160 | 160 (M8) | <b>3,448</b> | 1   | 4    |


Recessed drainpipe clamp

AB-DE

 Technical info  
P. 416

SANITATION



| CODE    | SIZE | ØD(mm)    | €/100          | MAXIMUM LOAD |  |
|---------|------|-----------|----------------|--------------|---|
| ABDE075 | 75   | 75 - 80   | <b>214,997</b> | 200          | 100   |
| ABDE090 | 90   | 87 - 92   | <b>232,770</b> | 200          | 100   |
| ABDE110 | 110  | 107 - 112 | <b>281,257</b> | 200          | 100   |
| ABDE125 | 125  | 125 - 130 | <b>316,823</b> | 200          | 50  |

AB-DE Z


Zinc-plated



 Technical info  
P. 416

SANITATION



| CODE    | SIZE | ØD(mm)    | €/100          | MAXIMUM LOAD |  |
|---------|------|-----------|----------------|--------------|---|
| ABDE160 | 160  | 159 - 166 | <b>368,547</b> | 200          | 50  |
| ABDE200 | 200  | 199 - 212 | <b>442,903</b> | 200          | 50  |
| ABDE250 | 250  | 245 - 254 | <b>711,230</b> | 200          | 25  |
| ABDE315 | 315  | 314 - 319 | <b>892,277</b> | 200          | 25  |

AB-DE G

ATLANTIS C2-L coating



APPLICATION EXAMPLES




Drainpipe clamp with hole

AB-DP

 Technical info  
P. 416

SANITATION



| CODE    | SIZE | ØD(mm)    | €/100          | MAXIMUM LOAD |  |
|---------|------|-----------|----------------|--------------|---|
| ABDP075 | 75   | 75 - 80   | <b>245,703</b> | 200          | 100   |
| ABDP090 | 90   | 87 - 92   | <b>268,330</b> | 200          | 100   |
| ABDP110 | 110  | 107 - 112 | <b>293,540</b> | 200          | 100   |
| ABDP125 | 125  | 125 - 130 | <b>329,753</b> | 200          | 50  |

AB-DP Z

Zinc-plated



 Technical info  
P. 416

SANITATION



| CODE    | SIZE | ØD(mm)    | €/100          | MAXIMUM LOAD |  |
|---------|------|-----------|----------------|--------------|---|
| ABDP160 | 160  | 159 - 166 | <b>394,410</b> | 200          | 50  |
| ABDP200 | 200  | 199 - 212 | <b>465,533</b> | 200          | 25  |
| ABDP250 | 250  | 245 - 254 | <b>646,580</b> | 200          | 25  |

AB-DP G

ATLANTIS C2-L coating



APPLICATION EXAMPLES



# AB-ZI

U-bolt

## AB-ZI

Zinc-plated



| CODE       | SIZE       | €/100   | MAXIMUM LOAD | Ø ROD INCHES |     |       |
|------------|------------|---------|--------------|--------------|-----|-------|
| AZIM060250 | M6 1/4"    | 24,313  | 250          | 1/4"         | 100 | 800   |
| AZIM060375 | M6 3/8"    | 25,163  | 250          | 3/8"         | 100 | 1.200 |
| AZIM060500 | M6 1/2"    | 28,877  | 250          | 1/2"         | 100 | 600   |
| AZIM060750 | M6 3/4"    | 34,173  | 250          | 3/4"         | 100 | 600   |
| AZIM061000 | M6 1"      | 36,700  | 250          | 1"           | 100 | 400   |
| AZIM061250 | M6 1 1/4"  | 49,090  | 250          | 1 1/4"       | 50  | 300   |
| AZIM081500 | M8 1 1/2"  | 76,210  | 350          | 1 1/2"       | 50  | 150   |
| AZIM082000 | M8 2"      | 86,870  | 350          | 2"           | 50  | 150   |
| AZIM082250 | M8 2 1/4"  | 101,170 | 350          | 2 1/4"       | 50  | 100   |
| AZIM082500 | M8 2 1/2"  | 106,607 | 350          | 2 1/2"       | 50  | 100   |
| AZIM083000 | M8 3"      | 114,313 | 350          | 3"           | 50  | 100   |
| AZIM083500 | M8 3 1/2"  | 136,170 | 350          | 3 1/2"       | 50  | 100   |
| AZIM084000 | M8 4"      | 168,067 | 350          | 4"           | 50  | 100   |
| AZIM084500 | M8 4 1/2"  | 177,750 | 350          | 4 1/2"       | 25  | 100   |
| AZIM085000 | M8 5"      | 183,970 | 350          | 5"           | 25  | 100   |
| AZIM086000 | M8 6"      | 209,157 | 350          | 6"           | 25  | 100   |
| AZIM103000 | M10 3"     | 156,650 | 350          | 3"           | 25  | 50    |
| AZIM103500 | M10 3 1/2" | 179,853 | 350          | 3 1/2"       | 25  | 50    |
| AZIM104000 | M10 4"     | 202,030 | 350          | 4"           | 25  | 100   |
| AZIM105000 | M10 5"     | 224,003 | 350          | 5"           | 25  | 100   |
| AZIM106000 | M10 6"     | 259,110 | 350          | 6"           | 25  | 100   |
| AZIM108000 | M10 8"     | 294,830 | 350          | 8"           | 25  | 100   |

## AB-ZI A2

A2 Stainless steel



| CODE       | SIZE      | €/100     | MAXIMUM LOAD |     |     |
|------------|-----------|-----------|--------------|-----|-----|
| AZA2060500 | M6 1/2"   | 105,883   | 250          | 100 | 600 |
| AZA2060750 | M6 3/4"   | 123,093   | 250          | 100 | 600 |
| AZA2061000 | M6 1"     | 151,650   | 250          | 100 | 400 |
| AZA2061250 | M6 1 1/4" | 179,560   | 250          | 50  | 300 |
| AZA2081500 | M8 1 1/2" | 312,037   | 350          | 50  | 150 |
| AZA2082000 | M8 2"     | 362,937   | 350          | 50  | 150 |
| AZA2082500 | M8 2 1/2" | 408,927   | 350          | 50  | 100 |
| AZA2083000 | M8 3"     | 444,473   | 350          | 50  | 100 |
| AZA2104000 | M10 4"    | 904,320   | 350          | 50  | -   |
| AZA2106000 | M10 6"    | 1.166,313 | 350          | 25  | -   |
| AZA2108000 | M10 8"    | 1.395,300 | 350          | 25  | -   |


U-bolt support

AB-SA

 Technical info  
P. 417

SANITATION



| CODE       | SIZE      | €/100     | LENGTH |  |
|------------|-----------|-----------|--------|--|
| ABSA050100 | 50 x 100  | 411,980   | 100    | 50   |
| ABSA050125 | 50 x 125  | 446,490   | 125    | 50   |
| ABSA050200 | 50 x 200  | 545,823   | 200    | 25   |
| ABSA050300 | 50 x 300  | 660,060   | 300    | 25   |
| ABSA050400 | 50 x 400  | 806,417   | 400    | 25   |
| ABSA050500 | 50 x 500  | 1.178,120 | 500    | 10   |
| ABSA050600 | 50 x 600  | 1.293,207 | 600    | 10   |
| ABSA100100 | 100 x 100 | 547,293   | 100    | 25   |
| ABSA100125 | 100 x 125 | 587,120   | 125    | 25   |
| ABSA100200 | 100 x 200 | 693,967   | 200    | 25   |
| ABSA100300 | 100 x 300 | 880,103   | 300    | 10   |
| ABSA100400 | 100 x 400 | 1.177,197 | 400    | 10   |
| ABSA100500 | 100 x 500 | 1.538,757 | 500    | 10   |





Heavy duty pipe clamp

AB-GP

 Technical info  
P. 418

SANITATION



| CODE      | SIZE    | ØD(mm)    | €/100   |  |  |
|-----------|---------|-----------|---------|--|--|
| AGP023025 | 23-25   | 23 - 25   | 146,103 | 50   | 300  |
| AGP026028 | 26-28   | 26 - 28   | 151,913 | 50   | 300  |
| AGP029031 | 29-31   | 29 - 31   | 182,567 | 50   | 200  |
| AGP032035 | 32-35   | 32 - 35   | 187,557 | 50   | 150  |
| AGP036039 | 36-39   | 36 - 39   | 188,807 | 50   | 150  |
| AGP040043 | 40-43   | 40 - 43   | 200,030 | 50   | 100  |
| AGP044047 | 44-47   | 44 - 47   | 262,237 | 50   | -  |
| AGP048051 | 48-51   | 48 - 51   | 273,730 | 25   | 75   |
| AGP052055 | 52-55   | 52 - 55   | 279,777 | 25   | 75   |
| AGP056059 | 56-59   | 56 - 59   | 286,423 | 25   | 75   |
| AGP060063 | 60-63   | 60 - 63   | 298,523 | 25   | 50   |
| AGP064067 | 64-67   | 64 - 67   | 327,130 | 25   | 50   |
| AGP068073 | 68-73   | 68 - 73   | 402,977 | 25   | -  |
| AGP074079 | 74-79   | 74 - 79   | 407,963 | 25   | -  |
| AGP080085 | 80-85   | 80 - 85   | 412,207 | 25   | -  |
| AGP086091 | 86-91   | 86 - 91   | 420,020 | 25   | -  |
| AGP092097 | 92-97   | 92 - 97   | 440,403 | 25   | -  |
| AGP098103 | 98-103  | 98 - 103  | 444,973 | 25   | -  |
| AGP104112 | 104-112 | 104 - 112 | 483,237 | 25   | -  |
| AGP113121 | 113-121 | 113 - 121 | 516,090 | 25   | -  |
| AGP122130 | 122-130 | 122 - 130 | 553,933 | 25   | -  |
| AGP131139 | 131-139 | 131 - 139 | 691,163 | 25   | -  |
| AGP140148 | 140-148 | 140 - 148 | 706,133 | 25   | -  |
| AGP149161 | 149-161 | 149 - 161 | 748,147 | 25   | -  |
| AGP162174 | 162-174 | 162 - 174 | 780,990 | 25   | -  |



APPLICATION EXAMPLES



 Blister



































| CODE        | SIZE  | €/BAG | PCS  | BAGS  |
|-------------|-------|-------|---|--|
| BZAGP023025 | 23-25 | 4,146 | 2   | 10   |
| BZAGP029031 | 29-31 | 4,146 | 2   | 10   |
| BZAGP040043 | 40-43 | 4,146 | 2   | 10   |

































**LIGHT METAL CLAMPS**

| SIZES (mm)   | RECOMMENDED LOAD (kg) | COATING   | THICKNESS (mm)   | WIDTH (mm)   | OPENING   | COUPLING NUT | ASSESSMENT   | ISOPHONIC | CTE | PARALLEL ASSEMBLING   | SCREW   |   |
|--|-----------------------|---|--|--|-----------|--------------|--------------|-----------|-----|---|---|---|
| <b>AB-M6</b><br><b>AB-M6 Z</b>   |                       | APPLICATIONS: Gas, Sanitation, Electric   |  |  |           |              |              |           |     |   | P. 264  |   |
|    | Ø 8 - Ø 63            | 70 - 100  | <br>AB-M6 | <br>AB-M6 Z | 1 - 1,2   | 12           | Fast lateral | Embed M6  | -   | -   | -   | -   |
| <b>AB-M7 Z</b>   |                       | APPLICATIONS: Gas Sanitation Electric   |  |  |           |              |              |           |     |   | P. 267  |   |
|    | Ø 8 - Ø 63            | 70  |           |  | 0,8 - 1   | 11           | -            | Embed M7  | -   | -   | -   | -   |
| <b>AB-D6</b><br><b>AB-D6 Z</b>   |                       | APPLICATIONS: Gas, Sanitation, Electric   |  |  |           |              |              |           |     |   | P. 265  |   |
|    | Ø 12 - Ø 28           | 100   | <br>AB-D6 | <br>AB-D6 Z | 1         | 12           | -            | Embed M6  | -   | -   |    | -   |
| <b>AB-DZ 7</b>   |                       | APPLICATIONS: Gas, Sanitation, Electric   |  |  |           |              |              |           |     |   | P. 267  |   |
|  | Ø 10 - Ø 28           | 70  |          |  | 0,8 - 1   | 11           | -            | Embed M7  | -   | -   |  | -   |
| <b>AB-6I</b>   |                       | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |  |  |           |              |              |           |     |   | P. 266  |   |
|  | Ø 12 - Ø 60           | 70 - 100  |         |  | 1 - 1,2   | 12           | Fast lateral | Embed M6  | -   |  |  | -   |
| <b>AB-DI</b>   |                       | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |  |  |           |              |              |           |     |   | P. 266  |   |
|  | Ø 12 - Ø 60           | 100   |         |  | 1         | 12           | -            | Embed M6  | -   |  |  |  |
| <b>AB-7I Z</b>   |                       | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |  |  |           |              |              |           |     |   | P. 268  |   |
|  | Ø 12 - Ø 50           | 70  |         |  | 0,8 - 1   | 11           | -            | Embed M7  | -   |  |  | -   |
| <b>AB-7ID Z</b>  |                       | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |  |  |           |              |              |           |     |   | P. 268  |   |
|  | Ø 10 - Ø 28           | 70  |         |  | 0,8 - 1   | 11           | -            | Embed M7  | -   |  |  |  |
| <b>AB-PI</b>   |                       | APPLICATIONS: Sanitation, Electric  |  |  |           |              |              |           |     |   | P. 269  |   |
|  | Ø 6 - Ø 63            | 30  |         |  | 1,1 - 1,3 | 12,5 - 19    | -            | -         | -   | -   | -   | -   |
| <b>AB-PU</b>   |                       | APPLICATIONS: Sanitation, Electric  |  |  |           |              |              |           |     |   | P. 269  |   |
|  | Ø 16 - Ø 63           | 30  |         |  | 1,2 - 1,4 | 12 - 20      | -            | -         | -   | -   | -   | -   |

|   | SIZES (mm)  | RECOMMENDED LOAD kg | COATING   | THICKNESS (mm) | WIDTH (mm) | OPENING      | COUPLING NUT | ASSESSMENT               | ISOPHONIC   | CTE <small>CLAMPED TENSILE STRENGTH</small>   | PARALLEL ASSEMBLING   | SCREW         |
|---|---|---------------------|---|----------------|------------|--------------|--------------|--------------------------|---|---|---|---------------|
| <b>AB-GM</b>  | APPLICATIONS: Gas   |                     |   |                |            |              |              |                          |   |   | P. 274  |               |
|    | Ø 12 - Ø 35   | 100                 |    | 1 - 1,2        | 12         | Fast lateral | Embed M6     | According to EN ISO 4892 | -   | -   | -   | Pre-assembled |
| <b>AB-GS</b>  | APPLICATIONS: Gas   |                     |   |                |            |              |              |                          |   |   | P. 275  |               |
|     | Ø 10 - Ø 54   | 70 - 100            |    | 1 - 1,2        | 12         | Fast lateral | Embed M6     | According to EN ISO 4892 | -   | -   | -   | Pre-assembled |
| <b>AB-GD</b>  | APPLICATIONS: Gas   |                     |   |                |            |              |              |                          |   |   | P. 275  |               |
|     | Ø 12 - Ø 28   | 100                 |    | 1 - 1,2        | 12         | -            | Embed M6     | According to EN ISO 4892 | -   | -   |    | Pre-assembled |
| <b>AB-CR</b>  | APPLICATIONS: Sanitation  |                     |   |                |            |              |              |                          |   |   | P. 273  |               |
|     | Ø 10 - Ø 12   | 70                  |    | 1 - 1,2        | 12         | Fast lateral | Embed M6     | -                        | -   | -   | -   | -             |
| <b>AB-ITS</b>   |   |                     |   |                |            |              |              |                          |   |   | P. 273  |               |
|  | 15 - 28   | -                   |  | 1,0 - 1,2      | 20 - 33    | -            | -            | -                        | -   | -   | -   | -             |
| <b>AB-ITD</b>   |   |                     |   |                |            |              |              |                          |   |   | P. 273  |               |
|  | 15 - 22   | -                   |  | 1,0            | 20 - 27    | -            | -            | -                        | -   | -   | -   | -             |
| <b>AB-BU</b>  | APPLICATIONS: Sanitation, Industrial  |                     |   |                |            |              |              |                          |   |   | P. 274  |               |
|  | Ø 13 - Ø 21   | -                   |  | 0,6            | 9          | -            | -            | -                        | -   | -   | -   | Pre-assembled |
| <b>AB-SF</b>  | APPLICATIONS: Sanitation, Industrial  |                     |   |                |            |              |              |                          |   |   | P. 271  |               |
|  | Ø 8 - Ø 150   | -                   |  | 0,6 - 0,8      | 9          | -            | -            | -                        | -   | -   | -   | Pre-assembled |
| <b>AB-IP</b>  | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |                |            |              |              |                          |   |   | P. 270  |               |
|   | -   | -                   |  | 1,5            | 20         | -            | -            | -                        |  |  | -   | ABT006015     |
| <b>AB-SI</b>  | APPLICATIONS: HSW and CW, Gas, Sanitation, Heating, Air Conditioning, Electric, Ventilation |                     |   |                |            |              |              |                          |   |   | P. 270  |               |
|   | 3 / 25 Holes  | -                   |  | 3              | 20         | -            | -            | -                        |  |  |  | ABT006015     |

# AB-M6

Pipe clamp M6

## AB-M6

Yellow zinc-plated



Technical info  
P. 418

SANITATION



| CODE    | SIZE    | ØD(mm) | €/100  | SIZE IN INCHES | MAXIMUM LOAD |     |       |
|---------|---------|--------|--------|----------------|--------------|-----|-------|
| ABM6008 | 8 (M6)  | 8      | 17,960 | -              | 70           | 100 | 1.200 |
| ABM6010 | 10 (M6) | 10     | 18,597 | 1/8"           | 70           | 100 | 1.200 |
| ABM6012 | 12 (M6) | 12     | 18,373 | -              | 70           | 100 | 1.200 |
| ABM6014 | 14 (M6) | 14     | 19,013 | 1/4"           | 70           | 100 | 1.200 |
| ABM6015 | 15 (M6) | 15     | 19,017 | -              | 70           | 100 | 600   |
| ABM6016 | 16 (M6) | 16     | 19,553 | -              | 70           | 100 | 600   |
| ABM6018 | 18 (M6) | 18     | 20,027 | 3/8"           | 70           | 100 | 600   |
| ABM6020 | 20 (M6) | 20     | 20,327 | -              | 70           | 100 | 600   |
| ABM6022 | 22 (M6) | 22     | 21,247 | 1/2"           | 70           | 100 | 600   |
| ABM6025 | 25 (M6) | 25     | 22,320 | -              | 70           | 100 | 600   |
| ABM6026 | 26 (M6) | 26     | 23,477 | 3/4"           | 70           | 100 | 400   |
| ABM6028 | 28 (M6) | 28     | 24,040 | -              | 70           | 100 | 400   |
| ABM6032 | 32 (M6) | 32     | 26,623 | 1"             | 70           | 50  | 300   |
| ABM6035 | 35 (M6) | 35     | 29,920 | -              | 70           | 50  | 300   |
| ABM6037 | 37 (M6) | 37     | 31,553 | -              | 100          | 50  | 300   |
| ABM6040 | 40 (M6) | 40     | 34,267 | -              | 100          | 50  | 300   |
| ABM6042 | 42 (M6) | 42     | 35,540 | 1 1/4"         | 100          | 50  | 300   |
| ABM6047 | 47 (M6) | 47     | 38,647 | 1 1/2"         | 100          | 50  | 200   |
| ABM6050 | 50 (M6) | 50     | 38,800 | -              | 100          | 50  | 150   |
| ABM6054 | 54 (M6) | 54     | 45,113 | -              | 100          | 50  | 150   |
| ABM6060 | 60 (M6) | 60     | 49,377 | 2"             | 100          | 50  | 150   |
| ABM6063 | 63 (M6) | 63     | 52,140 | -              | 100          | 50  | 100   |

Self-service

| CODE      | SIZE    | €/BAG | PCS | BAGS |
|-----------|---------|-------|-----|------|
| LSABM6012 | 12 (M6) | 5,731 | 20  | 5    |
| LSABM6014 | 14 (M6) | 5,843 | 20  | 5    |
| LSABM6016 | 16 (M6) | 5,948 | 20  | 5    |

Self-service

| CODE      | SIZE    | €/BAG | PCS | BAGS |
|-----------|---------|-------|-----|------|
| LSABM6018 | 18 (M6) | 4,964 | 15  | 6    |
| LSABM6022 | 22 (M6) | 4,146 | 10  | 6    |
| LSABM6028 | 28 (M6) | 3,024 | 6   | 6    |

Self-service

| CODE      | SIZE    | €/BAG | PCS | BAGS |
|-----------|---------|-------|-----|------|
| LSABM6032 | 32 (M6) | 2,687 | 4   | 6    |
| LSABM6040 | 40 (M6) | 3,084 | 4   | 5    |

## AB-M6 Z

Zinc-plated



Technical info  
P. 418

SANITATION



| CODE     | SIZE    | ØD(mm) | €/100  | SIZE IN INCHES | MAXIMUM LOAD |     |       |
|----------|---------|--------|--------|----------------|--------------|-----|-------|
| ABMZ6008 | 8 (M6)  | 8      | 17,960 | -              | 70           | 100 | 1.200 |
| ABMZ6010 | 10 (M6) | 10     | 18,597 | 1/8"           | 70           | 100 | 1.200 |
| ABMZ6012 | 12 (M6) | 12     | 18,373 | -              | 70           | 100 | 1.200 |
| ABMZ6014 | 14 (M6) | 14     | 19,013 | 1/4"           | 70           | 100 | 1.200 |
| ABMZ6015 | 15 (M6) | 15     | 19,373 | -              | 70           | 100 | 600   |
| ABMZ6016 | 16 (M6) | 16     | 19,553 | -              | 70           | 100 | 600   |
| ABMZ6018 | 18 (M6) | 18     | 20,027 | 3/8"           | 70           | 100 | 600   |
| ABMZ6020 | 20 (M6) | 20     | 20,327 | -              | 70           | 100 | 600   |
| ABMZ6022 | 22 (M6) | 22     | 21,247 | 1/2"           | 70           | 100 | 600   |
| ABMZ6025 | 25 (M6) | 25     | 22,320 | -              | 70           | 100 | 600   |
| ABMZ6026 | 26 (M6) | 26     | 23,477 | 3/4"           | 70           | 100 | 400   |
| ABMZ6028 | 28 (M6) | 28     | 24,040 | -              | 70           | 100 | 400   |
| ABMZ6032 | 32 (M6) | 32     | 26,623 | 1"             | 70           | 50  | 300   |
| ABMZ6035 | 35 (M6) | 35     | 29,920 | -              | 70           | 50  | 300   |
| ABMZ6037 | 37 (M6) | 37     | 32,143 | -              | 100          | 50  | 300   |
| ABMZ6040 | 40 (M6) | 40     | 34,267 | -              | 100          | 50  | 300   |
| ABMZ6042 | 42 (M6) | 42     | 35,540 | 1 1/4"         | 100          | 50  | 300   |
| ABMZ6047 | 47 (M6) | 47     | 38,647 | 1 1/2"         | 100          | 50  | 200   |
| ABMZ6050 | 50 (M6) | 50     | 38,800 | -              | 100          | 50  | 150   |
| ABMZ6054 | 54 (M6) | 54     | 45,113 | -              | 100          | 50  | 150   |
| ABMZ6060 | 60 (M6) | 60     | 49,377 | 2"             | 100          | 50  | 150   |
| ABMZ6063 | 63 (M6) | 63     | 52,140 | -              | 100          | 50  | 100   |





Pipe clamp M6

# AB-M6

 Technical info  
P. 419



| CODE      | SIZE    | ØD(mm)  | €/100          | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|-----------|---------|---------|----------------|----------------|--------------|---|---|
| ABM6A2012 | 12 (M6) | 12      | <b>229,473</b> | 1/4"           | 70           | 100   | 1.200   |
| ABM6A2015 | 15 (M6) | 14 - 15 | <b>233,623</b> | -              | 70           | 100   | 600   |
| ABM6A2018 | 18 (M6) | 16 - 18 | <b>237,770</b> | 3/8"           | 70           | 100   | 600   |
| ABM6A2020 | 20 (M6) | 19 - 21 | <b>242,527</b> | 1/2"           | 70           | 100   | 600   |
| ABM6A2022 | 22 (M6) | 22 - 24 | <b>245,593</b> | -              | 70           | 100   | 600   |
| ABM6A2028 | 28 (M6) | 25 - 30 | <b>259,383</b> | 3/4"           | 70           | 100   | 400   |

## AB-M6 A2

A2 Stainless steel





Double pipe clamp M6

# AB-D6

 Technical info  
P. 419



| CODE    | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|---------|---------|--------|---------------|----------------|--------------|---|---|
| ABD6012 | 12 (M6) | 12     | <b>29,547</b> | -              | 100          | 50  | 600   |
| ABD6015 | 15 (M6) | 15     | <b>32,190</b> | -              | 100          | 50  | 300   |
| ABD6018 | 18 (M6) | 18     | <b>35,360</b> | 3/8"           | 100          | 50  | 300   |
| ABD6022 | 22 (M6) | 22     | <b>40,100</b> | 1/2"           | 100          | 50  | 300   |
| ABD6028 | 28 (M6) | 28     | <b>47,003</b> | -              | 100          | 50  | 200   |

## AB-D6

Yellow zinc-plated




### Self-service

| CODE      | SIZE    | €/BAG        | PCS | BAGS |
|-----------|---------|--------------|-----|------|
| LSABD6012 | 12 (M6) | <b>3,153</b> | 5   | 6    |
| LSABD6015 | 15 (M6) | <b>3,255</b> | 5   | 6    |
| LSABD6018 | 18 (M6) | <b>3,349</b> | 5   | 6    |
| LSABD6022 | 22 (M6) | <b>3,255</b> | 4   | 6    |
| LSABD6028 | 28 (M6) | <b>4,001</b> | 4   | 6    |

 Technical info  
P. 419



| CODE     | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|----------|---------|--------|---------------|----------------|--------------|---|---|
| ABDZ6012 | 12 (M6) | 12     | <b>29,547</b> | -              | 100          | 50  | 600   |
| ABDZ6015 | 15 (M6) | 15     | <b>32,190</b> | -              | 100          | 50  | 300   |
| ABDZ6018 | 18 (M6) | 18     | <b>35,360</b> | 3/8"           | 100          | 50  | 300   |
| ABDZ6022 | 22 (M6) | 22     | <b>40,100</b> | 1/2"           | 100          | 50  | 300   |
| ABDZ6028 | 28 (M6) | 28     | <b>47,003</b> | -              | 100          | 50  | 200   |

## AB-D6 Z

Zinc-plated



### APPLICATION EXAMPLES



# AB-6I

## Isophonic pipe clamp M6

02 Technical info P. 420

SANITATION



| CODE    | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES | MAXIMUN LOAD |     |     |
|---------|---------|--------|---------------|----------------|--------------|-----|-----|
| AB6I012 | 12 (M6) | 12     | <b>28,413</b> | 1/8"           | 70           | 100 | 600 |
| AB6I015 | 15 (M6) | 15     | <b>29,210</b> | 1/4"           | 70           | 100 | 600 |
| AB6I016 | 16 (M6) | 16     | <b>30,500</b> | -              | 70           | 100 | 600 |
| AB6I018 | 18 (M6) | 18     | <b>30,770</b> | 3/8"           | 70           | 100 | 600 |
| AB6I022 | 22 (M6) | 22     | <b>35,010</b> | 1/2"           | 70           | 100 | 400 |
| AB6I026 | 26 (M6) | 26     | <b>39,680</b> | -              | 70           | 100 | 400 |
| AB6I028 | 28 (M6) | 28     | <b>41,287</b> | 3/4"           | 70           | 100 | 300 |
| AB6I032 | 32 (M6) | 32     | <b>43,230</b> | -              | 70           | 50  | 200 |
| AB6I035 | 35 (M6) | 35     | <b>48,743</b> | 1"             | 70           | 50  | 200 |
| AB6I042 | 42 (M6) | 42     | <b>60,263</b> | 1 1/4"         | 100          | 50  | 150 |
| AB6I048 | 48 (M6) | 48     | <b>68,227</b> | 1 1/2"         | 100          | 50  | 100 |
| AB6I054 | 54 (M6) | 54     | <b>80,580</b> | -              | 100          | 50  | 100 |
| AB6I060 | 60 (M6) | 60     | <b>85,597</b> | 2"             | 100          | 50  | 100 |

02 Self-service

| CODE      | SIZE    | €/BAG        | PCS | BAGS |
|-----------|---------|--------------|-----|------|
| LSAB6I012 | 12 (M6) | <b>4,666</b> | 10  | 6    |
| LSAB6I015 | 15 (M6) | <b>4,904</b> | 10  | 5    |
| LSAB6I016 | 16 (M6) | <b>4,933</b> | 10  | 6    |
| LSAB6I018 | 18 (M6) | <b>3,995</b> | 8   | 6    |
| LSAB6I022 | 22 (M6) | <b>3,646</b> | 6   | 6    |
| LSAB6I028 | 28 (M6) | <b>3,192</b> | 4   | 6    |

# AB-DI

## Double isophonic pipe clamp M6

02 Technical info P. 420

SANITATION



| CODE     | SIZE    | ØD(mm) | €/100          | SIZE IN INCHES | MAXIMUN LOAD |    |     |
|----------|---------|--------|----------------|----------------|--------------|----|-----|
| ABDI0012 | 12 (M6) | 12     | <b>54,673</b>  | 1/8"           | 100          | 50 | 300 |
| ABDI0015 | 15 (M6) | 15     | <b>65,210</b>  | 1/4"           | 100          | 50 | 300 |
| ABDI0018 | 18 (M6) | 18     | <b>71,157</b>  | 3/8"           | 100          | 50 | 200 |
| ABDI0022 | 22 (M6) | 22     | <b>81,963</b>  | 1/2"           | 100          | 50 | 200 |
| ABDI0028 | 28 (M6) | 28     | <b>106,967</b> | 3/4"           | 100          | 50 | 150 |

02 Self-service

| CODE       | SIZE    | €/BAG        | PCS | BAGS |
|------------|---------|--------------|-----|------|
| LSABDI0012 | 12 (M6) | <b>3,677</b> | 5   | 6    |
| LSABDI0015 | 15 (M6) | <b>3,884</b> | 5   | 6    |
| LSABDI0018 | 18 (M6) | <b>3,162</b> | 3   | 6    |
| LSABDI0022 | 22 (M6) | <b>3,300</b> | 3   | 6    |



Pipe clamp M7. Zinc plated

AB-M7 Z

 Technical info  
P. 421

SANITATION



| CODE     | SIZE | ØD(mm) | €/100  |  |  |
|----------|------|--------|--------|---|---|
| ABMZ7008 | 8    | 8      | 19,570 | 100   | 1.200   |
| ABMZ7010 | 10   | 10     | 20,263 | 100   | 1.200   |
| ABMZ7012 | 12   | 12     | 20,020 | 100   | 1.200   |
| ABMZ7014 | 14   | 14     | 20,717 | 100   | 1.200   |
| ABMZ7016 | 16   | 16     | 21,307 | 100   | 1.200   |
| ABMZ7018 | 18   | 18     | 21,823 | 100   | 1.200   |
| ABMZ7020 | 20   | 20     | 22,150 | 100   | 1.200   |
| ABMZ7022 | 22   | 22     | 23,153 | 100   | 600   |
| ABMZ7024 | 24   | 24     | 23,627 | 100   | 600   |
| ABMZ7025 | 25   | 25     | 24,320 | 100   | 600   |
| ABMZ7026 | 26   | 26     | 25,580 | 100   | 600   |
| ABMZ7028 | 28   | 28     | 26,197 | 100   | 600   |
| ABMZ7032 | 32   | 32     | 29,010 | 50  | 600   |
| ABMZ7034 | 34   | 34     | 32,260 | 50  | 300   |
| ABMZ7036 | 36   | 36     | 34,380 | 50  | 300   |
| ABMZ7038 | 38   | 38     | 34,323 | 50  | 300   |
| ABMZ7040 | 40   | 40     | 37,340 | 50  | 300   |
| ABMZ7050 | 50   | 50     | 42,280 | 50  | 200   |
| ABMZ7063 | 63   | 63     | 56,817 | 25  | 150   |





Double pipe clamp M7. Zinc plated

AB-D7 Z

 Technical info  
P. 421

SANITATION



| CODE      | SIZE  | ØD(mm) | €/100  |  |  |
|-----------|-------|--------|--------|---|---|
| ABDZ70810 | 8-10  | 8-10   | 31,750 | 50  | 600   |
| ABDZ71012 | 10-12 | 10-12  | 31,177 | 50  | 600   |
| ABDZ71214 | 12-14 | 12-14  | 34,647 | 50  | 600   |
| ABDZ71416 | 14-16 | 14-16  | 33,967 | 50  | 600   |
| ABDZ71618 | 16-18 | 16-18  | 37,313 | 50  | 600   |
| ABDZ71820 | 18-20 | 18-20  | 42,313 | 50  | 300   |
| ABDZ72022 | 20-22 | 20-22  | 49,600 | 50  | 300   |
| ABDZ72224 | 22-24 | 22-24  | 51,220 | 50  | 300   |
| ABDZ72628 | 26-28 | 26-28  | 53,823 | 50  | 300   |



# AB-7I Z

Isophonic pipe clamp M7. Zinc plated

02 Technical info P. 422

SANITATION



| CODE     | SIZE | ØD(mm) | €/100  |     |       |
|----------|------|--------|--------|-----|-------|
| AB7IZ010 | 10   | 10     | 29,130 | 100 | 1.200 |
| AB7IZ012 | 12   | 12     | 30,567 | 100 | 1.200 |
| AB7IZ014 | 14   | 14     | 31,420 | 100 | 1.200 |
| AB7IZ016 | 16   | 16     | 32,813 | 100 | 1.200 |
| AB7IZ018 | 18   | 18     | 33,100 | 100 | 600   |
| AB7IZ020 | 20   | 20     | 35,713 | 100 | 600   |
| AB7IZ022 | 22   | 22     | 37,663 | 100 | 600   |
| AB7IZ024 | 24   | 24     | 38,880 | 100 | 600   |
| AB7IZ026 | 26   | 26     | 42,690 | 100 | 600   |
| AB7IZ028 | 28   | 28     | 44,413 | 100 | 400   |
| AB7IZ032 | 32   | 32     | 46,503 | 50  | 300   |
| AB7IZ034 | 34   | 34     | 50,100 | 50  | 300   |
| AB7IZ036 | 36   | 36     | 52,437 | 50  | 300   |
| AB7IZ038 | 38   | 38     | 52,730 | 50  | 300   |
| AB7IZ040 | 40   | 40     | 58,563 | 50  | 300   |
| AB7IZ050 | 50   | 50     | 61,060 | 50  | 200   |

# AB-7ID Z

Double isophonic pipe clamp M7. Zinc plated

02 Technical info P. 422

SANITATION



| CODE       | SIZE  | ØD(mm) | €/100   |    |     |
|------------|-------|--------|---------|----|-----|
| AB7IDZ0810 | 08-10 | 08-10  | 51,247  | 50 | 600 |
| AB7IDZ1012 | 10-12 | 10-12  | 54,810  | 50 | 600 |
| AB7IDZ1214 | 12-14 | 12-14  | 56,560  | 50 | 600 |
| AB7IDZ1416 | 14-16 | 14-16  | 65,373  | 50 | 300 |
| AB7IDZ1618 | 16-18 | 16-18  | 71,337  | 50 | 300 |
| AB7IDZ1820 | 18-20 | 18-20  | 72,320  | 50 | 300 |
| AB7IDZ2022 | 20-22 | 20-22  | 82,167  | 50 | 300 |
| AB7IDZ2224 | 22-24 | 22-24  | 86,990  | 50 | 200 |
| AB7IDZ2628 | 26-28 | 26-28  | 107,233 | 50 | 200 |

Conduit clip with single hole

AB-PI

Technical info  
P. 423



| CODE    | SIZE | ØD(mm) | €/100  | SIZE IN INCHES | MAXIMUM LOAD |     |       |
|---------|------|--------|--------|----------------|--------------|-----|-------|
| ABPI006 | 6    | 6      | 5,667  | -              | 30           | 100 | 2.400 |
| ABPI008 | 8    | 8      | 6,060  | -              | 30           | 100 | 2.400 |
| ABPI010 | 10   | 10     | 6,730  | 1/8"           | 30           | 100 | 2.400 |
| ABPI012 | 12   | 12     | 7,103  | 1/4"           | 30           | 100 | 2.400 |
| ABPI014 | 14   | 14     | 8,917  | -              | 30           | 100 | 2.400 |
| ABPI016 | 16   | 16     | 10,913 | 3/8"           | 30           | 100 | 1.200 |
| ABPI018 | 18   | 18     | 11,847 | -              | 30           | 100 | 1.200 |
| ABPI020 | 20   | 20     | 14,080 | 1/2"           | 30           | 100 | 1.200 |
| ABPI022 | 22   | 22     | 15,390 | -              | 30           | 100 | 600   |
| ABPI025 | 25   | 25     | 17,163 | -              | 30           | 100 | 600   |
| ABPI026 | 26   | 26     | 17,757 | 3/4"           | 30           | 100 | 600   |
| ABPI028 | 28   | 28     | 18,643 | -              | 30           | 100 | 600   |
| ABPI032 | 32   | 32     | 25,470 | 1"             | 30           | 100 | 600   |
| ABPI040 | 40   | 40     | 34,910 | -              | 30           | 50  | 300   |
| ABPI042 | 42   | 42     | 41,163 | 1 1/4"         | 30           | 50  | 300   |
| ABPI047 | 47   | 47     | 42,897 | 1 1/2"         | 30           | 50  | 200   |
| ABPI050 | 50   | 50     | 44,370 | -              | 30           | 50  | 200   |
| ABPI063 | 63   | 63     | 66,513 | 2"             | 30           | 50  | 200   |



APPLICATION EXAMPLES



Blister

| CODE      | SIZE | €/BAG | PCS BAG | BAGS |
|-----------|------|-------|---------|------|
| BZABPI016 | 16   | 1,820 | 2       | 15   |
| BZABPI018 | 18   | 1,820 | 2       | 12   |
| BZABPI020 | 20   | 1,820 | 2       | 10   |
| BZABPI022 | 22   | 1,820 | 2       | 10   |
| BZABPI025 | 25   | 1,820 | 2       | 10   |
| BZABPI028 | 28   | 1,820 | 2       | 10   |
| BZABPI032 | 32   | 1,820 | 2       | 10   |

Self-service

| CODE      | SIZE | €/BAG | PCS BAG | BAGS |
|-----------|------|-------|---------|------|
| LSABPI016 | 16   | 4,314 | 20      | 5    |
| LSABPI018 | 18   | 4,435 | 20      | 5    |
| LSABPI020 | 20   | 4,608 | 20      | 5    |
| LSABPI022 | 22   | 5,045 | 20      | 5    |
| LSABPI025 | 25   | 4,615 | 15      | 5    |
| LSABPI028 | 28   | 3,902 | 10      | 6    |
| LSABPI032 | 32   | 3,231 | 6       | 6    |
| LSABPI040 | 40   | 3,066 | 4       | 6    |

Bridge conduit clip with double hole

AB-PU

Technical info  
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| CODE    | SIZE | ØD(mm) | €/100  | SIZE IN INCHES | MAXIMUM LOAD |     |       |
|---------|------|--------|--------|----------------|--------------|-----|-------|
| ABPU016 | 16   | 16     | 14,180 | 3/8"           | 75           | 100 | 1.200 |
| ABPU018 | 18   | 18     | 14,853 | -              | 75           | 100 | 1.200 |
| ABPU020 | 20   | 20     | 15,020 | 1/2"           | 75           | 100 | 600   |
| ABPU022 | 22   | 22     | 18,130 | -              | 75           | 100 | 600   |
| ABPU025 | 25   | 25     | 19,107 | -              | 75           | 100 | 600   |
| ABPU028 | 28   | 28     | 20,637 | -              | 75           | 100 | 600   |
| ABPU032 | 32   | 32     | 23,357 | 1"             | 75           | 50  | 300   |
| ABPU037 | 37   | 37     | 27,947 | -              | 75           | 50  | 300   |
| ABPU040 | 40   | 40     | 32,730 | -              | 75           | 50  | 300   |
| ABPU050 | 50   | 50     | 42,647 | -              | 75           | 50  | 200   |
| ABPU063 | 63   | 63     | 57,817 | 2"             | 75           | 50  | 150   |



APPLICATION EXAMPLES



Self-service

| CODE      | SIZE | €/BAG | PCS BAG | BAGS |
|-----------|------|-------|---------|------|
| LSABPU016 | 16   | 4,696 | 20      | 5    |
| LSABPU018 | 18   | 4,964 | 20      | 5    |
| LSABPU020 | 20   | 5,048 | 20      | 5    |
| LSABPU022 | 22   | 5,716 | 20      | 5    |
| LSABPU025 | 25   | 5,018 | 15      | 5    |
| LSABPU028 | 28   | 4,175 | 10      | 6    |
| LSABPU032 | 32   | 3,074 | 6       | 6    |
| LSABPU037 | 37   | 2,759 | 4       | 6    |
| LSABPU040 | 40   | 2,801 | 4       | 6    |
| LSABPU050 | 50   | 3,153 | 4       | 6    |
| LSABPU063 | 63   | 3,430 | 4       | 6    |



# AB-IP

Isophonic bridge conduit clip



02 Technical info P. 424

SANITATION



| CODE    | SIZE | ØD(mm) | €/100   | HOLE NUM | SIZE IN INCHES |    |     |
|---------|------|--------|---------|----------|----------------|----|-----|
| ABIP015 | 15   | 15     | 55,010  | 3        | -              | 50 | 600 |
| ABIP018 | 18   | 18     | 60,617  | 3        | 3/8"           | 50 | 300 |
| ABIP022 | 22   | 22     | 66,510  | 3        | 1/2"           | 50 | 300 |
| ABIP026 | 26   | 26     | 77,733  | 4        | 3/4"           | 50 | 300 |
| ABIP028 | 28   | 28     | 83,100  | 4        | -              | 50 | 300 |
| ABIP035 | 35   | 35     | 94,510  | 4        | 1"             | 50 | 150 |
| ABIP042 | 42   | 42     | 102,803 | 4        | 1 1/4"         | 25 | 100 |
| ABIP048 | 48   | 48     | 111,100 | 4        | 1 1/2"         | 25 | 100 |
| ABIP054 | 54   | 54     | 123,583 | 5        | -              | 25 | 100 |
| ABIP060 | 60   | 60     | 139,180 | 5        | 2"             | 25 | 75  |
| ABIP067 | 67   | 67     | 154,790 | 5        | -              | 25 | 75  |
| ABIP075 | 75   | 75     | 165,133 | 6        | 2 1/2"         | 25 | 75  |
| ABIP090 | 90   | 90     | 195,157 | 6        | 3"             | 25 | 75  |

# AB-SI

Fixing plate for Isophonic bridge conduit clip

## AB-SI

Fixing plate for Isophonic bridge conduit clip



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SANITATION



| CODE    | SIZE | METRIC DRILL | €/100   | HOLE NUM |    |     |
|---------|------|--------------|---------|----------|----|-----|
| ABSI003 | 3    | M6           | 186,877 | 3        | 25 | -   |
| ABSI004 | 4    | M6           | 217,540 | 4        | 25 | -   |
| ABSI005 | 5    | M6           | 250,057 | 5        | 25 | 150 |
| ABSI006 | 6    | M6           | 281,567 | 6        | 25 | -   |
| ABSI007 | 7    | M6           | 315,020 | 7        | 25 | -   |
| ABSI008 | 8    | M6           | 345,893 | 8        | 25 | -   |
| ABSI009 | 9    | M6           | 376,967 | 9        | 25 | -   |
| ABSI010 | 10   | M6           | 395,097 | 10       | 25 | -   |
| ABSI011 | 11   | M6           | 432,010 | 11       | 25 | -   |
| ABSI012 | 12   | M6           | 464,333 | 12       | 25 | -   |
| ABSI013 | 13   | M6           | 494,630 | 13       | 25 | -   |
| ABSI014 | 14   | M6           | 519,943 | 14       | 25 | -   |
| ABSI015 | 15   | M6           | 552,680 | 15       | 25 | -   |
| ABSI016 | 16   | M6           | 583,797 | 16       | 10 | -   |
| ABSI017 | 17   | M6           | 628,333 | 17       | 10 | -   |
| ABSI018 | 18   | M6           | 682,270 | 18       | 10 | -   |
| ABSI019 | 19   | M6           | 690,250 | 19       | 10 | -   |
| ABSI020 | 20   | M6           | 744,147 | 20       | 10 | -   |
| ABSI021 | 21   | M6           | 752,057 | 21       | 10 | -   |
| ABSI022 | 22   | M6           | 784,393 | 22       | 10 | -   |
| ABSI025 | 25   | M6           | 925,847 | 25       | 10 | -   |

# AB-TO

Screw for AB-IP



SANITATION



| CODE      | SIZE    | €/100 |     |
|-----------|---------|-------|-----|
| ABTO06015 | M6 x 15 | 8,340 | 100 |

## APPLICATION EXAMPLES



Hose clamp



# AB-SF

 Technical info  
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## AB-SF



Zinc-plated



| CODE      | SIZE    | ØD(mm)    | €/100         | SIZE IN INCHES  |  |  |
|-----------|---------|-----------|---------------|-----------------|---|---|
| ASF008016 | 8-16    | 8-16      | <b>27,337</b> | 5/16"- 5/8"     | 100   | 1.200   |
| ASF012022 | 12-22   | 12-22     | <b>28,207</b> | 1/2"- 7/8"      | 100   | 600   |
| ASF016027 | 16-27   | 16 - 27   | <b>29,697</b> | 5/8"- 1 1/16"   | 100   | 600   |
| ASF020032 | 20-32   | 20 - 32   | <b>33,300</b> | 3/4"- 1 1/4"    | 100   | 600   |
| ASF025040 | 25-40   | 25 - 40   | <b>38,850</b> | 1"- 1 5/8"      | 100   | 400   |
| ASF030045 | 30-45   | 30 - 45   | <b>43,373</b> | 1 3/16"- 1 3/4" | 100   | 300   |
| ASF035050 | 35-50   | 35 - 50   | <b>43,627</b> | 1 3/8"- 2"      | 100   | 200   |
| ASF040060 | 40-60   | 40 - 60   | <b>50,527</b> | 1 5/8"- 2 3/8"  | 100   | 200   |
| ASF050070 | 50-70   | 50 - 70   | <b>56,023</b> | 2"- 2 3/4"      | 50  | 100   |
| ASF060080 | 60-80   | 60 - 80   | <b>58,730</b> | 2 3/8"- 3 1/8"  | 50  | 100   |
| ASF070090 | 70-90   | 70 - 90   | <b>64,753</b> | 2 3/4"- 3 1/2"  | 50  | -   |
| ASF080100 | 80-100  | 80 - 100  | <b>69,927</b> | 3 1/8"- 4"      | 50  | -   |
| ASF090110 | 90-110  | 90 - 110  | <b>77,537</b> | 3 1/2"- 4 3/8"  | 50  | -   |
| ASF100120 | 100-120 | 100 - 120 | <b>85,100</b> | 4"- 4 3/4"      | 25  | -   |
| ASF110130 | 110-130 | 110 - 130 | <b>87,537</b> | 4 3/8"- 5 1/8"  | 25  | -   |
| ASF120140 | 120-140 | 120 - 140 | <b>93,177</b> | 4 3/4"- 5 1/2"  | 25  | -   |
| ASF130150 | 130-150 | 130 - 150 | <b>96,390</b> | 5 1/8"- 5 7/8"  | 25  | -   |



 Blister

 Self-service

| CODE        | SIZE  | €/BAG        | PCS  | BAGS  |
|-------------|-------|--------------|---|--|
| BZASF008016 | 8-16  | <b>2,302</b> | 2   | 20   |
| BZASF012022 | 12-22 | <b>2,302</b> | 2   | 20   |
| BZASF016027 | 16-27 | <b>2,302</b> | 2   | 20   |
| BZASF020032 | 20-32 | <b>2,302</b> | 2   | 10   |
| BZASF025040 | 25-40 | <b>2,302</b> | 2   | 10   |



| CODE        | SIZE  | €/BAG        | PCS  | BAGS  |
|-------------|-------|--------------|---|--|
| LSASF008016 | 8-16  | <b>6,709</b> | 15  | 7  |
| LSASF012022 | 12-22 | <b>5,866</b> | 12  | 7  |
| LSASF016027 | 16-27 | <b>6,011</b> | 12  | 7  |
| LSASF020032 | 20-32 | <b>5,716</b> | 10  | 7  |
| LSASF025040 | 25-40 | <b>3,983</b> | 6   | 7  |
| LSASF030045 | 30-45 | <b>4,389</b> | 6   | 7  |
| LSASF035050 | 35-50 | <b>4,428</b> | 6   | 7  |
| LSASF040060 | 40-60 | <b>3,634</b> | 4   | 7  |
| LSASF050070 | 50-70 | <b>3,884</b> | 4   | 7  |

 Technical info  
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## AB-SF A2

A2 Stainless steel

| CODE       | SIZE    | ØD(mm)    | €/100          | SIZE IN INCHES |  |  |
|------------|---------|-----------|----------------|----------------|---|---|
| ASF2010016 | 10-16   | 10-16     | <b>78,667</b>  | -              | 100   | 1.200   |
| ASF2012020 | 12-20   | 12-20     | <b>80,623</b>  | 1/2"- 7/8"     | 100   | 600   |
| ASF2016027 | 16-27   | 16 - 27   | <b>84,100</b>  | 5/8"- 1 1/16"  | 100   | 600   |
| ASF2020032 | 20-32   | 20 - 32   | <b>94,850</b>  | 3/4"- 1 1/4"   | 100   | 600   |
| ASF2025040 | 25-40   | 25 - 40   | <b>103,640</b> | 1"- 1 5/8"     | 100   | 200   |
| ASF2032050 | 32-50   | 32 - 50   | <b>144,253</b> | 1 3/8"- 2"     | 100   | 300   |
| ASF2040060 | 40-60   | 40 - 60   | <b>153,163</b> | 1 5/8"- 2 3/8" | 100   | 200   |
| ASF2050070 | 50-70   | 50 - 70   | <b>159,847</b> | 2"- 2 3/4"     | 50  | 100   |
| ASF2060080 | 60-80   | 60 - 80   | <b>168,033</b> | 2 3/8"- 3 1/8" | 50  | 100   |
| ASF2070090 | 70-90   | 70 - 90   | <b>176,967</b> | 2 3/4"- 3 1/2" | 50  | 100   |
| ASF2080100 | 80-100  | 80 - 100  | <b>182,903</b> | 3 1/8"- 4"     | 50  | 100   |
| ASF2090110 | 90-110  | 90 - 110  | <b>213,293</b> | 3 1/2"- 4 3/8" | 50  | 100   |
| ASF2100120 | 100-120 | 100 - 120 | <b>221,667</b> | 4"- 4 3/4"     | 25  | 25  |
| ASF2110130 | 110-130 | 110 - 130 | <b>230,020</b> | 4 3/8"- 5 1/8" | 25  | 25  |
| ASF2120140 | 120-140 | 120 - 140 | <b>241,733</b> | 4 3/4"- 5 1/2" | 25  | 25  |
| ASF2130150 | 130-150 | 130 - 150 | <b>250,940</b> | 5 1/8"- 5 7/8" | 25  | 25  |



APPLICATION EXAMPLES



# AB-SF IR

Stainless hose clamp roll

## AB-SF IR

Kit (Roll 3 m. + 8 heads). Stainless steel



STAINLESS STEEL



| CODE    | SIZE            | €/PC   |   |    |
|---------|-----------------|--------|---|----|
| ASFIR03 | 9 x 0,6 mm/ 3 m | 12,224 | 1 | 50 |

## AB-SF IRC

Head. Stainless steel



STAINLESS STEEL



| CODE    | SIZE    | €/100  |    |       |
|---------|---------|--------|----|-------|
| ASFIRCA | Cabezal | 87,327 | 50 | 1.000 |

## AB-SF IRR

Roll 30 m. Stainless steel



STAINLESS STEEL



| CODE    | SIZE             | €/PC   |   |    |
|---------|------------------|--------|---|----|
| ASFIR30 | 9 x 0,6 mm/ 30 m | 43,662 | 1 | 10 |

# CI-PE

Fixing band

## CI-PE

Round fixing band ATLANTIS C2-M



SANITATION



| CODE     | SIZE            | €/PC  | MIN. ORDER QTY. |   |    |
|----------|-----------------|-------|-----------------|---|----|
| CIPE1208 | 12 x 0,8 x 10 m | 6,792 | 10              | 1 | 40 |
| CIPE1708 | 17 x 0,8 x 10 m | 9,138 | 10              | 1 | 30 |



## CI-PE A2

Round fixing band. A2 Stainless steel



STAINLESS STEEL



| CODE       | SIZE            | €/PC   |   |    |
|------------|-----------------|--------|---|----|
| CIPEA21708 | 17 x 0,8 x 10 m | 32,706 | 1 | 30 |





Fixing band

# CI-PE

 Technical info  
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SANITATION



| CODE     | SIZE            | €/PC          | MIN. ORDER QTY. |  |  |
|----------|-----------------|---------------|-----------------|---|---|
| CIPR1908 | 19 x 0,8 x 10 m | <b>10,262</b> | 5               | 1   | 30  |
| CIPR1208 | 12 x 0,8 x 10 m | <b>7,391</b>  | 5               | 1   | 40  |

# CI-PR

Straight fixing band ATLANTIS C2-M





Chromed pipe clamp M6

# AB-CR

 Technical info  
P. 426

SANITATION



| CODE    | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|---------|---------|--------|---------------|----------------|--------------|---|---|
| ABCR010 | 10 (M6) | 10     | <b>32,837</b> | 1/8"           | 70           | 100   | 1.200   |
| ABCR012 | 12 (M6) | 12     | <b>34,597</b> | 1/4"           | 70           | 100   | 1.200   |



APPLICATION EXAMPLES





Stainless steel clamp Indextube

# AB-IT

SANITATION



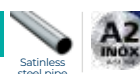
| CODE     | SIZE | €/100          |  |  |
|----------|------|----------------|---|--|
| ABITS015 | 15   | <b>122,600</b> | 100   | 600  |
| ABITS018 | 18   | <b>132,847</b> | 100   | 400  |
| ABITS022 | 22   | <b>196,913</b> | 100   | 400  |
| ABITS028 | 28   | <b>264,693</b> | 100   | 300  |



# AB-ITS

Simple



SANITATION



| CODE     | SIZE | €/100          |  |  |
|----------|------|----------------|---|--|
| ABITD015 | 15   | <b>453,273</b> | 50  | 300  |
| ABITD018 | 18   | <b>513,180</b> | 50  | 200  |
| ABITD022 | 22   | <b>643,220</b> | 50  | 100  |

# AB-ITD

Double



# AB-BU

Butane clamp



| CODE     | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES |    |     |
|----------|---------|--------|---------------|----------------|----|-----|
| ABBU1315 | 13 - 15 | 13-15  | <b>32,290</b> | 1/2" - 9/16"   | 50 | 600 |
| ABBU1618 | 16 - 18 | 16-18  | <b>32,290</b> | 5/8" - 11/16"  | 50 | 600 |
| ABBU1921 | 19 - 21 | 19-21  | <b>43,897</b> | 3/4" - 13/16"  | 50 | 600 |

### APPLICATION EXAMPLES



# AB-GM

Pipe clamp for gas yellow coated with chipboard screw



| CODE    | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES | MAXIMUN LOAD |     |     |
|---------|---------|--------|---------------|----------------|--------------|-----|-----|
| ABGM012 | 12 (M6) | 12     | <b>38,913</b> | 1/4"           | 70           | 100 | 600 |
| ABGM015 | 15 (M6) | 15     | <b>41,283</b> | -              | 70           | 100 | 600 |
| ABGM018 | 18 (M6) | 18     | <b>42,410</b> | 3/8"           | 70           | 100 | 600 |
| ABGM022 | 22 (M6) | 22     | <b>44,787</b> | 1/2"           | 70           | 50  | 200 |
| ABGM028 | 28 (M6) | 28     | <b>47,293</b> | 3/4"           | 70           | 50  | 200 |
| ABGM035 | 35 (M6) | 35     | <b>56,973</b> | -              | 70           | 50  | 200 |

According to a  
**UNE-EN ISO 4892**

### APPLICATION EXAMPLES







Pipe clamp for gas black coated M6 with chipboard screw

AB-GS

 Technical info  
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| CODE    | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES | MAXIMUN LOAD |  |  |
|---------|---------|--------|---------------|----------------|--------------|---|---|
| ABGS010 | 10 (M6) | 10     | <b>36,600</b> | 1/8"           | 70           | 100   | 600   |
| ABGS012 | 12 (M6) | 12     | <b>37,250</b> | 1/4"           | 70           | 100   | 600   |
| ABGS015 | 15 (M6) | 15     | <b>38,077</b> | -              | 70           | 100   | 600   |
| ABGS018 | 18 (M6) | 18     | <b>39,130</b> | 3/8"           | 70           | 100   | 600   |
| ABGS022 | 22 (M6) | 22     | <b>42,913</b> | 1/2"           | 70           | 50  | 200   |
| ABGS028 | 28 (M6) | 28     | <b>45,307</b> | 3/4"           | 70           | 50  | 200   |
| ABGS035 | 35 (M6) | 35     | <b>52,533</b> | -              | 70           | 50  | 200   |
| ABGS042 | 42 (M6) | 42     | <b>57,953</b> | 1 1/4"         | 70           | 25  | 100   |
| ABGS054 | 54 (M6) | 54     | <b>78,130</b> | -              | 70           | 25  | 100   |



According to a  
**UNE-EN ISO 4892**

 Self-service



| CODE      | SIZE    | €/BAG        | PCS  | BAGS  |
|-----------|---------|--------------|---|--|
| LSABGS015 | 15 (M6) | <b>5,987</b> | 10  | 6  |
| LSABGS018 | 18 (M6) | <b>4,946</b> | 8   | 6  |
| LSABGS022 | 22 (M6) | <b>4,494</b> | 6   | 6  |

Double pipe clamp for gas black coated M6 with chipboard screw

AB-GD

 Technical info  
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| CODE    | SIZE    | ØD(mm) | €/100         | SIZE IN INCHES | MAXIMUN LOAD |  |  |
|---------|---------|--------|---------------|----------------|--------------|---|---|
| ABGD012 | 12 (M6) | 12     | <b>50,670</b> | -              | 100          | 50  | 300   |
| ABGD015 | 15 (M6) | 15     | <b>54,707</b> | -              | 100          | 50  | 300   |
| ABGD018 | 18 (M6) | 18     | <b>56,210</b> | 3/8"           | 100          | 50  | 300   |
| ABGD022 | 22 (M6) | 22     | <b>61,340</b> | 1/2"           | 100          | 50  | 200   |
| ABGD028 | 28 (M6) | 28     | <b>83,057</b> | -              | 100          | 50  | 200   |



According to a  
**UNE-EN ISO 4892**

APPLICATION EXAMPLES







**FIRE PROTECTION SYSTEMS**

# AB-PE



## Sprinkler pipe clamp



 Technical info  
P. 428

SANITATION



| CODE    | SIZE      | ØD(mm) | €/100          | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|---------|-----------|--------|----------------|----------------|--------------|---|---|
| ABPE028 | 28 (M10)  | DN 20  | <b>89,497</b>  | 3/4"           | 154          | 50  | 200   |
| ABPE035 | 35 (M10)  | DN 25  | <b>93,863</b>  | 1"             | 186          | 50  | 200   |
| ABPE040 | 40 (M10)  | DN 32  | <b>109,873</b> | 1 1/4"         | 195          | 50  | 200   |
| ABPE048 | 48 (M10)  | DN 40  | <b>110,480</b> | 1 1/2"         | 236          | 50  | 200   |
| ABPE060 | 60 (M10)  | DN 50  | <b>125,150</b> | 2"             | 288          | 50  | 200   |
| ABPE075 | 75 (M10)  | DN 65  | <b>144,723</b> | 2 1/2"         | 426          | 25  | 100   |
| ABPE090 | 90 (M10)  | DN 80  | <b>162,983</b> | 3"             | 481          | 25  | 100   |
| ABPE100 | 100 (M10) | DN 90  | <b>200,853</b> | 3 1/2"         | 569          | 25  | 100   |
| ABPE115 | 115 (M10) | DN 100 | <b>271,713</b> | 4"             | 669          | 25  | 100   |
| ABPE140 | 140 (M12) | DN 125 | <b>484,110</b> | 5"             | 907          | 10  | 40  |
| ABPE160 | 160 (M12) | DN 150 | <b>565,627</b> | 6"             | 1186         | 10  | 40  |
| ABPE220 | 220 (M12) | DN 200 | <b>989,850</b> | 8"             | 1723         | 10  | 40  |

### APPLICATION EXAMPLES



# AB-CH


## Clevis hanger clamp



 Technical info  
P. 428

SANITATION




| CODE      | ASSESSMENT | SIZE   | ØD(mm) | €/100             |  |
|-----------|------------|--------|--------|-------------------|---|
| ABCH00034 | UL         | 3/4"   | 28     | <b>265,990</b>    | 50  |
| ABCH01000 | UL         | 1"     | 35     | <b>280,723</b>    | 50  |
| ABCH01014 | UL         | 1 1/4" | 42     | <b>282,473</b>    | 50  |
| ABCH01012 | UL         | 1 1/2" | 48     | <b>304,990</b>    | 50  |
| ABCH02000 | UL         | 2"     | 60     | <b>312,313</b>    | 50  |
| ABCH02012 | UL & FM    | 2 1/2" | 75     | <b>568,967</b>    | 30  |
| ABCH03000 | UL & FM    | 3"     | 90     | <b>586,990</b>    | 25  |
| ABCH04000 | UL & FM    | 4"     | 115    | <b>1.077,587</b>  | 25  |
| ABCH05000 | UL & FM    | 5"     | 140    | <b>1.494,980</b>  | 25  |
| ABCH06000 | UL & FM    | 6"     | 160    | <b>2.115,863</b>  | 10  |
| ABCH08000 | UL & FM    | 8"     | 220    | <b>3.171,697</b>  | 10  |
| ABCH10000 | UL         | 10"    | 275    | <b>5.409,553</b>  | 1   |
| ABCH12000 | UL         | 12"    | 325    | <b>7.180,697</b>  | 1   |
| ABCH14000 | -          | 14"    | 355    | <b>9.273,870</b>  | 1   |
| ABCH16000 | -          | 16"    | 405    | <b>13.320,037</b> | 1   |

Fire-rated collar for multiple diameters

AB-CI



| CODE      | SIZE          | €/PC           |  |
|-----------|---------------|----------------|--|
| ABCIKIT25 | 2,5 m x 50 mm | <b>484,513</b> | 1  |
| ABCIKIT30 | 3 m x 50 mm   | <b>572,727</b> | 1  |





Ceiling wedge anchor ETA Assessed

AN-CU

02 Technical info p. 331



| CODE      | SIZE      | €/100         | DRILL Ø |  |  |
|-----------|-----------|---------------|---------|---|---|
| ANCU06040 | 6 x 40 Ø6 | <b>26,587</b> | 6       | 100   | 1.200   |
| ANCU06070 | 6 x 70 Ø6 | <b>41,673</b> | 6       | 100   | 1.200   |









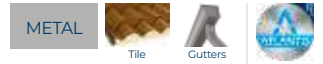
**GUTTER SUPPORTS**

# TE

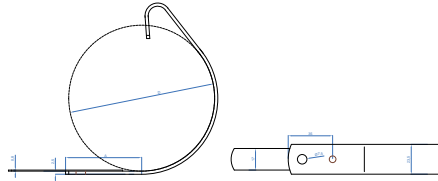
## Spiral anchor

### TE-MO

Module for PVC channel

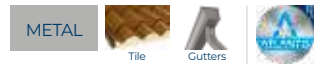


| CODE   | ØD(mm) | A(MM) | €/100          |    |
|--------|--------|-------|----------------|----|
| TEM025 | 100    | 60    | <b>247,690</b> | 50 |
| TEM033 | 150    | 80    | <b>305,280</b> | 50 |

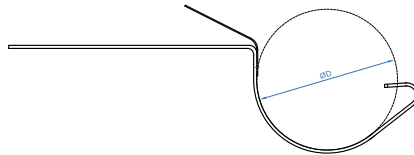


### TE-GA

Hook for PVC channel

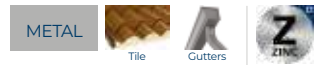


| CODE   | ØD(mm) | €/100          |    |
|--------|--------|----------------|----|
| TEGA25 | 100    | <b>373,407</b> | 50 |
| TEGA33 | 150    | <b>390,123</b> | 50 |

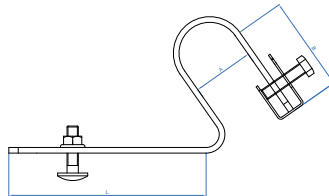


### TE-GR

Big tile plate

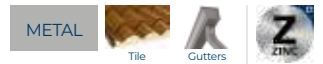


| CODE     | A(MM) | B(MM) | L(MM) | €/100          |    |
|----------|-------|-------|-------|----------------|----|
| TEGR2530 | 35    | 50    | 80    | <b>241,920</b> | 50 |

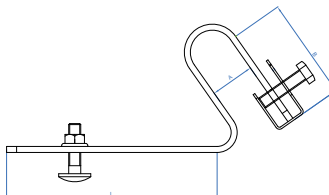


### TE-PE

Tile plate



| CODE     | A(MM) | B(MM) | L(MM) | €/100          |    |
|----------|-------|-------|-------|----------------|----|
| TEPE2530 | 22    | 50    | 100   | <b>225,910</b> | 50 |



#### APPLICATION EXAMPLES





# PLASTIC CLAMPS





Nylon® cable ties and their accessories are some of the most highly demanded products in the professional installation world. They are suitable for all types of applications, such as electrical installations, landscaping, industrial cabling, construction, DIY, production lines and photovoltaic installations. The INDEX cable tie range is made up of a wide variety of colours and sizes, detectable cable ties and various accessories. We have UNE-EN 62275 certification (CE mark) and UL approval.



## QUALITIES AND ADVANTAGES



### FAST AND SIMPLE INSTALLATION

The ergonomic design of the flexible tape makes for smooth and easy threading.



### HIGH PERFORMANCE

The design of the head ensures high resistance to traction, guaranteeing strong tensioning. Up to 122.3 kg\* of breaking load under EN 50146

\*For cable ties that are 12 mm wide.



### INNER GEAR RACK

The design of the inner gear rack ensures an optimal tightening of the cable tie without damaging the object being secured.



### MAXIMUM QUALITY AND GUARANTEES

The quality of INDEX cable ties is guaranteed with the highest quality standards, thanks to their certification under the UNE-EN 62275 standard, which has UL approval and allows for CE marking.

## APPLICATIONS



- Wiring in general: Electrical wiring, hose clamping, cable hose bundling
- Solar Plants
- Automotive and Aeronautics
- Product Packaging
- Children's parks
- Pharmaceutical and Food Industry
- DIY and Gardening
- Arts and Crafts
- Facilities with HACCP/APPCC requirements (disposable cable ties)

## RANGE



### BLACK AND WHITE CABLE TIES

The black and white Nylon® cable ties with inner gear rack are very versatile, and can be used for numerous applications in multiple industries. They are available in a wide variety of sizes, enabling an optimal fastening of any element, such as cable harnesses, pipes and/or hoses.

The black cable ties, manufactured from polyamide with a black additive, provide greater resistance to ultraviolet radiation, making them suitable for outdoor applications. The white cable ties (natural) are suitable for indoor applications.



They are ideally suited for use in installations requiring high resistance to alkalis, oils, greases, oil by-products or chlorinated solvents. However, they offer limited resistance to acids and no resistance to phenols.



### COLOURED CABLE TIES

The coloured cable ties are suitable for wiring in connection boxes where different bundles of cables are grouped, allowing them to be identified quickly and easily and making it possible to visually organize the work space. They are also used in those applications where cable ties need to go unnoticed (fencing).

Available in a wide range of sizes in **brown, yellow, blue, red, green and grey.**



### DETECTABLE CABLE TIES

Detectable cable ties are especially designed for use in the food, cosmetics and pharmaceutical industries, and in any others with applications that must **comply with the requirements of the HACCP\* methodology** (Hazard Analysis and Critical Control Points).

Manufactured in 6.6 Polyamide with metal particles, their **magnetic properties allow them to be detected by a metal detector** or X-ray inspection equipment. And their unique blue colour makes them easy to detect visually.



## PACKAGING AND POINT OF SALE



The bag the cable ties are sold in contains all the necessary information in a single glance.

Printed on the label are the dimensions of the cable tie, the usage temperature, the maximum and minimum diameter size, the breaking load, code and EAN. It is a high quality plastic bag that ensures watertightness to maintain the recommended humidity level.

There are three shelving display options for cable ties:



BAGS HUNG ON HOOKS



BAGS ARRANGED IN TRAYS



BAGS IN DISPLAY BOXES

## RECOMMENDATIONS ON THE USE AND STORAGE OF THE CABLE TIES

INDEX cable ties are manufactured in high quality polyamide, a hygroscopic plastic material, which means that the material absorbs and loses water depending on the external conditions (humidity and temperature). To guarantee correct handling and optimal conservation of the polyamide, the bags of cable ties contain the proper level of humidity.

We recommend the following to ensure correct product behaviour:



Do not open the bag until using them, and once open use them as soon as possible or store them in hermetic plastic bags.



Do not store near heat sources.



Optimal storage conditions: 23°C temperature and 50% relative humidity.



Do not expose to direct sunlight.





Nylon cable tie

BN



BN-N

Black

| CODE    | SIZE        | €/100   |     |       |
|---------|-------------|---------|-----|-------|
| BN25080 | 2,5 x 80    | 1,227   | 100 | 1.000 |
| BN25100 | 2,5 x 100   | 1,397   | 100 | 1.000 |
| BN25140 | 2,5 x 140   | 2,077   | 100 | 1.000 |
| BN25160 | 2,5 x 160   | 2,303   | 100 | 1.000 |
| BN25200 | 2,5 x 200   | 2,997   | 100 | 1.000 |
| BN36140 | 3,6 x 140   | 2,867   | 100 | 1.000 |
| BN36200 | 3,6 x 200   | 3,903   | 100 | 1.000 |
| BN36250 | 3,6 x 250   | 5,297   | 100 | 1.000 |
| BN36300 | 3,6 x 300   | 6,343   | 100 | 1.000 |
| BN36370 | 3,6 x 370   | 8,597   | 100 | 1.000 |
| BN48120 | 4,8 x 120   | 4,180   | 100 | 1.000 |
| BN48160 | 4,8 x 160   | 4,647   | 100 | 1.000 |
| BN48180 | 4,8 x 180   | 4,960   | 100 | 1.000 |
| BN48200 | 4,8 x 200   | 5,070   | 100 | 1.000 |
| BN48250 | 4,8 x 250   | 7,327   | 100 | 1.000 |
| BN48290 | 4,8 x 290   | 7,933   | 100 | 1.000 |
| BN48370 | 4,8 x 370   | 10,223  | 100 | 1.000 |
| BN48430 | 4,8 x 430   | 14,470  | 100 | 1.000 |
| BN76150 | 7,6 x 150   | 11,260  | 100 | 1.000 |
| BN76200 | 7,6 x 200   | 12,060  | 100 | 1.000 |
| BN76290 | 7,6 x 290   | 15,187  | 100 | 1.000 |
| BN76370 | 7,6 x 370   | 19,713  | 100 | 1.000 |
| BN76450 | 7,6 x 450   | 30,023  | 100 | 1.000 |
| BN76540 | 7,6 x 540   | 37,123  | 100 | 1.000 |
| BN88770 | 8,8 x 770   | 65,807  | 50  | 1.000 |
| BN12225 | 12,5 x 225  | 43,007  | 50  | 500   |
| BN12500 | 12,5 x 500  | 90,767  | 50  | 500   |
| BN12720 | 12,5 x 720  | 128,930 | 50  | 500   |
| BN12850 | 12,5 x 850  | 149,097 | 50  | 500   |
| BN12100 | 12,5 x 1000 | 183,063 | 50  | 500   |



PAHs

Blister

| CODE      | SIZE      | €/BAG | PCS | BAGS |
|-----------|-----------|-------|-----|------|
| BZBN25100 | 2,5 x 100 | 1,820 | 20  | 20   |
| BZBN25160 | 2,5 x 160 | 1,820 | 20  | 20   |
| BZBN25200 | 2,5 x 200 | 1,820 | 20  | 20   |
| BZBN36140 | 3,6 x 140 | 1,820 | 20  | 20   |
| BZBN36200 | 3,6 x 200 | 1,820 | 20  | 20   |
| BZBN36300 | 3,6 x 300 | 2,302 | 20  | 15   |
| BZBN48160 | 4,8 x 160 | 2,302 | 20  | 15   |
| BZBN48200 | 4,8 x 200 | 2,302 | 20  | 15   |
| BZBN48290 | 4,8 x 290 | 2,302 | 10  | 15   |
| BZBN48370 | 4,8 x 370 | 2,302 | 10  | 15   |

Display for counter

| CODE      | SIZE       | €/BAG  | PCS | BAGS |
|-----------|------------|--------|-----|------|
| CKBN25080 | 2,5 x 80   | 1,285  | 100 | 30   |
| CKBN25100 | 2,5 x 100  | 1,465  | 100 | 30   |
| CKBN25140 | 2,5 x 140  | 2,174  | 100 | 30   |
| CKBN25160 | 2,5 x 160  | 2,414  | 100 | 20   |
| CKBN25200 | 2,5 x 200  | 3,144  | 100 | 20   |
| CKBN36140 | 3,6 x 140  | 3,007  | 100 | 20   |
| CKBN36200 | 3,6 x 200  | 4,096  | 100 | 20   |
| CKBN36300 | 3,6 x 300  | 6,661  | 100 | 10   |
| CKBN36370 | 3,6 x 370  | 9,021  | 100 | 10   |
| CKBN48120 | 4,8 x 120  | 4,392  | 100 | 20   |
| CKBN48160 | 4,8 x 160  | 4,883  | 100 | 20   |
| CKBN48180 | 4,8 x 180  | 5,201  | 100 | 20   |
| CKBN48200 | 4,8 x 200  | 5,327  | 100 | 20   |
| CKBN48250 | 4,8 x 250  | 7,692  | 100 | 10   |
| CKBN48290 | 4,8 x 290  | 8,325  | 100 | 10   |
| CKBN48370 | 4,8 x 370  | 10,731 | 100 | 10   |
| CKBN76200 | 7,6 x 200  | 12,663 | 100 | 10   |
| CKBN76290 | 7,6 x 290  | 15,946 | 100 | 10   |
| CKBN76370 | 7,6 x 370  | 20,696 | 100 | 8    |
| CKBN12225 | 12,5 x 225 | 22,575 | 50  | 10   |

# BN

Nylon cable tie

## BN-B

White

MULTI-MATERIAL



| CODE    | SIZE        | €/100   |     |       |
|---------|-------------|---------|-----|-------|
| BB25080 | 2,5 x 80    | 1,227   | 100 | 1.000 |
| BB25100 | 2,5 x 100   | 1,397   | 100 | 1.000 |
| BB25140 | 2,5 x 140   | 2,077   | 100 | 1.000 |
| BB25160 | 2,5 x 160   | 2,303   | 100 | 1.000 |
| BB25200 | 2,5 x 200   | 2,997   | 100 | 1.000 |
| BB36140 | 3,6 x 140   | 2,867   | 100 | 1.000 |
| BB36200 | 3,6 x 200   | 3,903   | 100 | 1.000 |
| BB36250 | 3,6 x 250   | 5,297   | 100 | 1.000 |
| BB36300 | 3,6 x 300   | 6,343   | 100 | 1.000 |
| BB36370 | 3,6 x 370   | 8,597   | 100 | 1.000 |
| BB48120 | 4,8 x 120   | 4,180   | 100 | 1.000 |
| BB48160 | 4,8 x 160   | 4,647   | 100 | 1.000 |
| BB48180 | 4,8 x 180   | 4,960   | 100 | 1.000 |
| BB48200 | 4,8 x 200   | 5,070   | 100 | 1.000 |
| BB48250 | 4,8 x 250   | 7,327   | 100 | 1.000 |
| BB48290 | 4,8 x 290   | 7,933   | 100 | 1.000 |
| BB48370 | 4,8 x 370   | 10,223  | 100 | 1.000 |
| BB48430 | 4,8 x 430   | 14,470  | 100 | 1.000 |
| BB76150 | 7,6 x 150   | 11,260  | 100 | 1.000 |
| BB76200 | 7,6 x 200   | 12,060  | 100 | 1.000 |
| BB76290 | 7,6 x 290   | 15,187  | 100 | 1.000 |
| BB76370 | 7,6 x 370   | 19,713  | 100 | 1.000 |
| BB76450 | 7,6 x 450   | 30,023  | 100 | 1.000 |
| BB76540 | 7,6 x 540   | 37,123  | 100 | 1.000 |
| BB88770 | 8,8 x 770   | 65,807  | 50  | 1.000 |
| BB12225 | 12,5 x 225  | 43,007  | 50  | 500   |
| BB12500 | 12,5 x 500  | 90,767  | 50  | 500   |
| BB12720 | 12,5 x 720  | 128,930 | 50  | 500   |
| BB12850 | 12,5 x 850  | 149,097 | 50  | 500   |
| BB12100 | 12,5 x 1000 | 183,063 | 50  | 500   |

### Blister

| CODE      | SIZE      | €/BAG | PCS | BAGS |
|-----------|-----------|-------|-----|------|
| BZBB25100 | 2,5 x 100 | 1,820 | 20  | 20   |
| BZBB25160 | 2,5 x 160 | 1,820 | 20  | 20   |
| BZBB25200 | 2,5 x 200 | 1,820 | 20  | 20   |
| BZBB36140 | 3,6 x 140 | 1,820 | 20  | 20   |
| BZBB36200 | 3,6 x 200 | 1,820 | 20  | 20   |
| BZBB36300 | 3,6 x 300 | 2,302 | 20  | 15   |
| BZBB48160 | 4,8 x 160 | 2,302 | 20  | 15   |
| BZBB48200 | 4,8 x 200 | 2,302 | 20  | 15   |
| BZBB48290 | 4,8 x 290 | 2,302 | 10  | 15   |
| BZBB48370 | 4,8 x 370 | 2,302 | 10  | 15   |

### Display for counter

| CODE      | SIZE       | €/BAG  | PCS | BAGS |
|-----------|------------|--------|-----|------|
| CKBB25080 | 2,5 x 80   | 1,285  | 100 | 30   |
| CKBB25100 | 2,5 x 100  | 1,465  | 100 | 30   |
| CKBB25140 | 2,5 x 140  | 2,174  | 100 | 30   |
| CKBB25160 | 2,5 x 160  | 2,414  | 100 | 20   |
| CKBB25200 | 2,5 x 200  | 3,144  | 100 | 20   |
| CKBB36140 | 3,6 x 140  | 3,007  | 100 | 20   |
| CKBB36200 | 3,6 x 200  | 4,096  | 100 | 20   |
| CKBB36300 | 3,6 x 300  | 6,661  | 100 | 10   |
| CKBB36370 | 3,6 x 370  | 9,021  | 100 | 10   |
| CKBB48120 | 4,8 x 120  | 4,392  | 100 | 20   |
| CKBB48160 | 4,8 x 160  | 4,883  | 100 | 20   |
| CKBB48180 | 4,8 x 180  | 5,201  | 100 | 20   |
| CKBB48200 | 4,8 x 200  | 5,327  | 100 | 20   |
| CKBB48250 | 4,8 x 250  | 7,692  | 100 | 20   |
| CKBB48290 | 4,8 x 290  | 8,325  | 100 | 10   |
| CKBB48370 | 4,8 x 370  | 10,731 | 100 | 10   |
| CKBB76200 | 7,6 x 200  | 12,663 | 100 | 10   |
| CKBB76290 | 7,6 x 290  | 15,946 | 100 | 10   |
| CKBB76370 | 7,6 x 370  | 20,696 | 100 | 8    |
| CKBB12225 | 12,5 x 225 | 22,575 | 50  | 8    |

Nylon cable tie. Colours

# BN-CO



| CODE      | SIZE      | €/100        |  |  |
|-----------|-----------|--------------|---|---|
| BC25100GR | 2,5 x 100 | <b>1,883</b> | 100   | 50.000  |
| BC36140GR | 3,6 x 140 | <b>3,440</b> | 100   | 30.000  |
| BC36200GR | 3,6 x 200 | <b>4,840</b> | 100   | 25.000  |
| BC48200GR | 4,8 x 200 | <b>6,147</b> | 100   | 16.000  |
| BC48290GR | 4,8 x 290 | <b>9,657</b> | 100   | 11.000  |

## BN-GR

Gray




| CODE      | SIZE      | €/100         |  |  |
|-----------|-----------|---------------|---|---|
| BC25100VE | 2,5 x 100 | <b>1,537</b>  | 100   | 50.000  |
| BC36140VE | 3,6 x 140 | <b>3,890</b>  | 100   | 30.000  |
| BC36200VE | 3,6 x 200 | <b>5,003</b>  | 100   | 25.000  |
| BC48200VE | 4,8 x 200 | <b>6,850</b>  | 100   | 16.000  |
| BC48290VE | 4,8 x 290 | <b>10,233</b> | 100   | 11.000  |

## BN-VE

Green



 Display for counter

| CODE        | SIZE      | €/BAG         | PCS  | BAGS  |
|-------------|-----------|---------------|---|--|
| CKBC25100VE | 2,5 x 100 | <b>1,614</b>  | 100   | 30   |
| CKBC36140VE | 3,6 x 140 | <b>4,090</b>  | 100   | 20   |
| CKBC36200VE | 3,6 x 200 | <b>5,247</b>  | 100   | 20   |
| CKBC48200VE | 4,8 x 200 | <b>7,196</b>  | 100   | 20   |
| CKBC48290VE | 4,8 x 290 | <b>10,745</b> | 100   | 10   |





| CODE      | SIZE      | €/100         |  |  |
|-----------|-----------|---------------|---|---|
| BC25100MA | 2,5 x 100 | <b>1,537</b>  | 100   | 50.000  |
| BC36140MA | 3,6 x 140 | <b>3,890</b>  | 100   | 30.000  |
| BC36200MA | 3,6 x 200 | <b>5,003</b>  | 100   | 25.000  |
| BC48200MA | 4,8 x 200 | <b>6,850</b>  | 100   | 16.000  |
| BC48290MA | 4,8 x 290 | <b>10,233</b> | 100   | 11.000  |

## BN-MA

Brown



 Display for counter

| CODE        | SIZE      | €/BAG         | PCS  | BAGS  |
|-------------|-----------|---------------|---|--|
| CKBC25100MA | 2,5 x 100 | <b>1,614</b>  | 100   | 30   |
| CKBC36140MA | 3,6 x 140 | <b>4,090</b>  | 100   | 20   |
| CKBC36200MA | 3,6 x 200 | <b>5,247</b>  | 100   | 20   |
| CKBC48200MA | 4,8 x 200 | <b>7,196</b>  | 100   | 18   |
| CKBC48290MA | 4,8 x 290 | <b>10,745</b> | 100   | 10   |



| CODE      | SIZE      | €/100         |  |  |
|-----------|-----------|---------------|---|---|
| BC25100AM | 2,5 x 100 | <b>1,537</b>  | 100   | 50.000  |
| BC36140AM | 3,6 x 140 | <b>3,890</b>  | 100   | 30.000  |
| BC36200AM | 3,6 x 200 | <b>5,003</b>  | 100   | 25.000  |
| BC48200AM | 4,8 x 200 | <b>6,850</b>  | 100   | 16.000  |
| BC48290AM | 4,8 x 290 | <b>10,233</b> | 100   | 11.000  |

## BN-AM

Yellow



# BN-CO

Nylon cable tie. Colours

## BN-AZ

Blue



| CODE      | SIZE      | €/100         |     |        |
|-----------|-----------|---------------|-----|--------|
| BC25100AZ | 2,5 x 100 | <b>1,537</b>  | 100 | 50.000 |
| BC36140AZ | 3,6 x 140 | <b>3,890</b>  | 100 | 30.000 |
| BC36200AZ | 3,6 x 200 | <b>5,003</b>  | 100 | 25.000 |
| BC48200AZ | 4,8 x 200 | <b>6,850</b>  | 100 | 16.000 |
| BC48290AZ | 4,8 x 290 | <b>10,233</b> | 100 | 11.000 |

Display for counter

| CODE        | SIZE      | €/BAG         | PCS | BAGS |
|-------------|-----------|---------------|-----|------|
| CKBC25100AZ | 2,5 x 100 | <b>1,614</b>  | 100 | 30   |
| CKBC36140AZ | 3,6 x 140 | <b>4,090</b>  | 100 | 20   |
| CKBC36200AZ | 3,6 x 200 | <b>5,247</b>  | 100 | 20   |
| CKBC48200AZ | 4,8 x 200 | <b>7,196</b>  | 100 | 18   |
| CKBC48290AZ | 4,8 x 290 | <b>10,745</b> | 100 | 10   |

## BN-RO

Red



| CODE      | SIZE      | €/100         |     |        |
|-----------|-----------|---------------|-----|--------|
| BC25100RO | 2,5 x 100 | <b>1,537</b>  | 100 | 50.000 |
| BC36140RO | 3,6 x 140 | <b>3,890</b>  | 100 | 30.000 |
| BC36200RO | 3,6 x 200 | <b>5,003</b>  | 100 | 25.000 |
| BC48200RO | 4,8 x 200 | <b>6,850</b>  | 100 | 16.000 |
| BC48290RO | 4,8 x 290 | <b>10,233</b> | 100 | 11.000 |

Display for counter

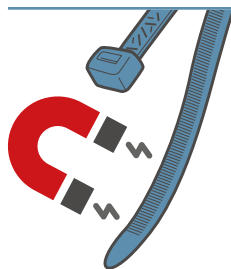
| CODE        | SIZE      | €/BAG         | PCS | BAGS |
|-------------|-----------|---------------|-----|------|
| CKBC25100RO | 2,5 x 100 | <b>1,614</b>  | 100 | 30   |
| CKBC36140RO | 3,6 x 140 | <b>4,090</b>  | 100 | 20   |
| CKBC36200RO | 3,6 x 200 | <b>5,247</b>  | 100 | 20   |
| CKBC48200RO | 4,8 x 200 | <b>7,196</b>  | 100 | 18   |
| CKBC48290RO | 4,8 x 290 | <b>10,745</b> | 100 | 10   |

# BN-DT

Detectable cable tie



| CODE      | SIZE      | €/100         |     |        |
|-----------|-----------|---------------|-----|--------|
| BNDT25100 | 2,5 x 100 | <b>4,247</b>  | 100 | 50.000 |
| BNDT36150 | 3,6 x 150 | <b>9,903</b>  | 100 | 30.000 |
| BNDT36200 | 3,6 x 200 | <b>12,730</b> | 100 | 25.000 |
| BNDT48200 | 4,8 x 200 | <b>15,557</b> | 100 | 16.000 |
| BNDT48300 | 4,8 x 300 | <b>24,040</b> | 100 | 11.000 |
| BNDT48370 | 4,8 x 370 | <b>33,943</b> | 100 | 8.000  |
| BNDT76370 | 7,6 x 370 | <b>62,233</b> | 100 | 5.000  |



## DETECTABLE CABLE TIE with metal particles

- TRIPLE DETECTION:



MAGNETIC



X-RAYS



VISUAL

- COMPATIBLE AS PART OF THE HACCP\*/APPCC\*\* PROCESS.

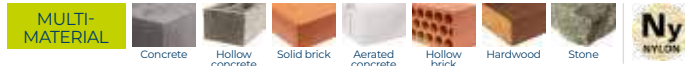
\*HACCP: Hazard Analysis and Critical Control Points). Food safety system based on the identification of all potential hazards in ingredients and various food production processes.

\*\* APPCC: Hazard Analysis and Critical Control Points.



Cable tie plug

# TACOBRI



| CODE     | SIZE | COLOR | €/100 |     |       |
|----------|------|-------|-------|-----|-------|
| TACOBRI6 | Ø6   | BLACK | 6,080 | 100 | 5.000 |
| TACOBRI8 | Ø8   | BLACK | 5,700 | 100 | 5.000 |

Blister

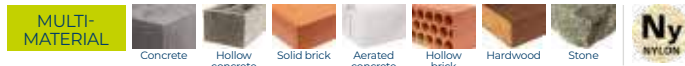
| CODE     | SIZE | €/BAG | PCS | BAGS |
|----------|------|-------|-----|------|
| BZTABRI6 | Ø6   | 1,820 | 4   | 15   |

Display for counter

| CODE       | SIZE | €/BAG | PCS | BAGS |
|------------|------|-------|-----|------|
| CKTACOBRI6 | Ø6   | 6,380 | 100 | 10   |
| CKTACOBRI8 | Ø8   | 5,983 | 100 | 10   |

## TACOBRI N

Black



| CODE     | SIZE | COLOR | €/100 |     |       |
|----------|------|-------|-------|-----|-------|
| TACOBRI6 | Ø6   | WHITE | 6,213 | 100 | 5.000 |
| TACOBRI8 | Ø8   | WHITE | 5,700 | 100 | 5.000 |

Blister

| CODE     | SIZE | €/BAG | PCS | BAGS |
|----------|------|-------|-----|------|
| BZTABRI8 | Ø8   | 1,820 | 4   | 15   |

Display for counter

| CODE       | SIZE | €/BAG | PCS | BAGS |
|------------|------|-------|-----|------|
| CKTACOBRI6 | Ø6   | 6,522 | 100 | 10   |
| CKTACOBRI8 | Ø8   | 5,983 | 100 | 10   |

## TACOBRI B

White



| CODE     | SIZE | COLOR | €/100 |     |       |
|----------|------|-------|-------|-----|-------|
| TACOBRI8 | Ø8   | GREY  | 7,480 | 100 | 5.000 |

## TACOBRI G

Gray



Nylon cable tie for identification

# BN-ID



| CODE     | SIZE      | €/100  |     |        |        |
|----------|-----------|--------|-----|--------|--------|
| BID25110 | 2,5 x 110 | 10,647 | 100 | 16.000 |        |
| BID25210 | 2,5 x 210 | 23,423 | 100 |        | 12.000 |

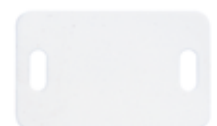


Identification plaque for nylon cable ties up to 4,8 mm.

# BN-PL



| CODE     | SIZE        | €/100  |     |       |
|----------|-------------|--------|-----|-------|
| BPL02616 | 26,4 x 16,2 | 25,103 | 100 | 5.000 |





# BN-BA

Two-way, adhesive base for nylon cable ties



MULTI-MATERIAL



| CODE    | SIZE    | COLOR | €/100  |     |        |
|---------|---------|-------|--------|-----|--------|
| BBANA19 | 19 x 19 | WHITE | 21,743 | 100 | 15.000 |
| BBANA27 | 27 x 27 | WHITE | 31,103 | 100 | 6.000  |
| BBANE19 | 19 x 19 | BLACK | 21,743 | 100 | 15.000 |
| BBANE27 | 27 x 27 | BLACK | 31,103 | 100 | 6.000  |

# AB-IN

Simple polypropylene pipe clip with M6 threaded brass insert



Technical info P. 425

SANITATION



| CODE    | SIZE  | ØD(mm) | €/100  |     |       |
|---------|-------|--------|--------|-----|-------|
| ABIN012 | 12    | 12     | 25,807 | 100 | 1.200 |
| ABIN014 | 14-15 | 14-15  | 28,067 | 100 | 600   |
| ABIN016 | 16-18 | 16-18  | 35,313 | 100 | 600   |
| ABIN020 | 20-22 | 20-22  | 36,987 | 100 | 400   |
| ABIN025 | 25    | 25     | 46,870 | 50  | 300   |
| ABIN028 | 28    | 28     | 47,857 | 50  | 300   |
| ABIN032 | 32    | 32     | 64,157 | 25  | 150   |
| ABIN035 | 35    | 35     | 72,800 | 25  | 300   |

Self-service

| CODE      | SIZE  | €/BAG | PCS | BAGS |
|-----------|-------|-------|-----|------|
| LSABIN012 | 12    | 5,361 | 10  | 6    |
| LSABIN014 | 14-15 | 5,611 | 10  | 5    |
| LSABIN016 | 16-18 | 5,214 | 8   | 6    |
| LSABIN020 | 20-22 | 4,525 | 6   | 5    |
| LSABIN028 | 28    | 4,125 | 4   | 6    |

INSTALLATION CHANNEL



# AB-ID

Double nylon pipe clip (polyamide 6.6) with M6 threaded brass insert



Technical info P. 425

SANITATION



| CODE    | SIZE  | ØD(mm) | €/100   |    |     |
|---------|-------|--------|---------|----|-----|
| ABID012 | 12    | 12     | 62,743  | 50 | 200 |
| ABID014 | 14-15 | 14-15  | 65,863  | 50 | 300 |
| ABID016 | 16-18 | 16-18  | 84,040  | 50 | 200 |
| ABID020 | 20-22 | 20-22  | 89,027  | 50 | 150 |
| ABID028 | 28    | 28     | 109,917 | 25 | 100 |

Self-service

| CODE      | SIZE  | €/BAG | PCS | BAGS |
|-----------|-------|-------|-----|------|
| LSABID012 | 12    | 5,523 | 6   | 6    |
| LSABID014 | 14-15 | 5,749 | 6   | 5    |
| LSABID016 | 16-18 | 3,357 | 2   | 6    |
| LSABID020 | 20-22 | 3,453 | 2   | 6    |
| LSABID028 | 28    | 3,868 | 2   | 6    |

INSTALLATION CHANNEL



## APPLICATION EXAMPLES





Closed polypropilene pipe clip with pre-thread M6

# AB-GU



Technical info  
P. 429

SANITATION



| CODE    | SIZE | ØD(mm) | €/100  |     |     |
|---------|------|--------|--------|-----|-----|
| ABGUG15 | 15   | 15     | 21,263 | 100 | 400 |
| ABGUG18 | 18   | 18     | 21,477 | 100 | 400 |
| ABGUG20 | 20   | 20     | 22,603 | 100 | 400 |
| ABGUG22 | 22   | 22     | 23,943 | 100 | 300 |
| ABGUG25 | 25   | 25     | 26,603 | 50  | 300 |
| ABGUG28 | 28   | 28     | 33,277 | 50  | 200 |
| ABGUG32 | 32   | 32     | 36,233 | 25  | 150 |
| ABGUG40 | 40   | 40     | 48,190 | 25  | 150 |
| ABGUG50 | 50   | 50     | 57,793 | 25  | 100 |



Self-service

| CODE      | SIZE | €/BAG | PCS | BAGS |
|-----------|------|-------|-----|------|
| LSABGUG15 | 15   | 3,216 | 8   | 6    |
| LSABGUG18 | 18   | 2,945 | 6   | 6    |
| LSABGUG20 | 20   | 2,524 | 4   | 7    |
| LSABGUG22 | 22   | 2,641 | 4   | 7    |
| LSABGUG25 | 25   | 2,331 | 2   | 6    |
| LSABGUG28 | 28   | 2,370 | 2   | 6    |
| LSABGUG32 | 32   | 2,488 | 2   | 6    |
| LSABGUG40 | 40   | 2,677 | 2   | 6    |
| LSABGUG50 | 50   | 2,873 | 2   | 6    |

INSTALLATION



Multiuse pipe clamp

# AB-MUG



Technical info  
P. 430

SANITATION



| CODE    | SIZE  | ØD(mm) | €/100  |     |     |
|---------|-------|--------|--------|-----|-----|
| ABMUG15 | 15-16 | 15     | 20,877 | 100 | 400 |
| ABMUG18 | 18-20 | 18     | 26,317 | 100 | 400 |
| ABMUG22 | 22-25 | 22     | 31,263 | 100 | 300 |
| ABMUG26 | 26-28 | 26     | 39,047 | 50  | 150 |
| ABMUG32 | 32-35 | 32     | 50,393 | 50  | 150 |
| ABMUG40 | 40-42 | 40     | 68,180 | 50  | 100 |
| ABMUG48 | 48-50 | 42     | 81,950 | 25  | 75  |



Self-service

| CODE      | SIZE  | €/BAG | PCS | BAGS |
|-----------|-------|-------|-----|------|
| LSABMUG15 | 15-16 | 3,228 | 8   | 6    |
| LSABMUG18 | 18-20 | 3,138 | 6   | 6    |
| LSABMUG22 | 22-25 | 2,792 | 4   | 7    |
| LSABMUG26 | 26-28 | 2,392 | 2   | 6    |
| LSABMUG32 | 32-35 | 2,620 | 2   | 6    |

INSTALLATION



# AB-PR

Duty pipe clamp with pre-thread M6



SANITATION



| CODE    | SIZE  | ØD(mm) | €/100         |     |     |
|---------|-------|--------|---------------|-----|-----|
| ABPRG15 | 15-18 | 15-18  | <b>23,473</b> | 100 | 400 |
| ABPRG20 | 20-22 | 20-22  | <b>24,230</b> | 100 | 400 |
| ABPRG25 | 25-28 | 25-28  | <b>29,330</b> | 100 | 300 |
| ABPRG32 | 32-35 | 32-35  | <b>41,333</b> | 25  | 150 |
| ABPRG40 | 40    | 40     | <b>53,350</b> | 25  | 150 |
| ABPRG50 | 50    | 50     | <b>67,240</b> | 25  | 100 |

Self-service

| CODE      | SIZE  | €/BAG        | PCS | BAGS |
|-----------|-------|--------------|-----|------|
| LSABPRG15 | 15-18 | <b>3,541</b> | 8   | 6    |
| LSABPRG20 | 20-22 | <b>2,816</b> | 4   | 5    |
| LSABPRG25 | 25-28 | <b>2,638</b> | 3   | 6    |

INSTALLATION



# AB-MS

Multitube clamp + plug. Single



Technical info  
P. 430

SANITATION



| CODE   | SIZE        | ØD(mm) | €/100          | MAXIMUM LOAD |     |       |
|--------|-------------|--------|----------------|--------------|-----|-------|
| ABMS10 | 5 x 20 Ø5   | 10     | <b>31,460</b>  | 9            | 100 | 1.200 |
| ABMS12 | 5 x 20 Ø5   | 12     | <b>33,533</b>  | 9            | 100 | 1.200 |
| ABMS14 | 6 x 25 Ø6   | 14     | <b>46,743</b>  | 15           | 100 | 600   |
| ABMS16 | 6 x 25 Ø6   | 16     | <b>48,247</b>  | 15           | 100 | 600   |
| ABMS18 | 8 x 30 Ø8   | 18     | <b>63,443</b>  | 16           | 100 | 300   |
| ABMS20 | 8 x 30 Ø8   | 20     | <b>64,953</b>  | 16           | 50  | 300   |
| ABMS22 | 8 x 30 Ø8   | 22     | <b>66,393</b>  | 16           | 50  | 300   |
| ABMS26 | 10 x 40 Ø10 | 26     | <b>124,960</b> | 30           | 50  | 150   |
| ABMS28 | 10 x 40 Ø10 | 28     | <b>126,960</b> | 30           | 50  | 150   |

# AB-MD

Multitube clamp + plug. Double



Technical info  
P. 431

SANITATION



| CODE   | SIZE        | ØD(mm) | €/100          | MAXIMUM LOAD |     |     |
|--------|-------------|--------|----------------|--------------|-----|-----|
| ABMD10 | 8 x 30 Ø8   | 10     | <b>62,213</b>  | 16           | 100 | 300 |
| ABMD12 | 8 x 30 Ø8   | 12     | <b>63,477</b>  | 16           | 100 | 300 |
| ABMD14 | 8 x 30 Ø8   | 14     | <b>64,743</b>  | 16           | 100 | 300 |
| ABMD16 | 8 x 30 Ø8   | 16     | <b>63,727</b>  | 16           | 100 | 300 |
| ABMD18 | 10 x 40 Ø10 | 18     | <b>90,033</b>  | 30           | 100 | 200 |
| ABMD20 | 10 x 40 Ø10 | 20     | <b>95,567</b>  | 30           | 50  | 150 |
| ABMD22 | 10 x 40 Ø10 | 22     | <b>98,430</b>  | 30           | 50  | 150 |
| ABMD26 | 10 x 40 Ø10 | 26     | <b>157,130</b> | 30           | 50  | 100 |
| ABMD28 | 10 x 40 Ø10 | 28     | <b>158,337</b> | 30           | 50  | 100 |



INDEXring tube fixing plug

# AB-T

02 Technical info P. 431

SANITATION



| CODE    | SIZE | ØD(mm)  | €/100         | SIZE IN INCHES |     |     |
|---------|------|---------|---------------|----------------|-----|-----|
| ABTS014 | 14   | 14 - 15 | <b>29,143</b> | -              | 100 | 600 |
| ABTS016 | 16   | 16 - 17 | <b>30,190</b> | 3/8"           | 100 | 400 |
| ABTS018 | 18   | 18 - 19 | <b>32,627</b> | -              | 100 | 400 |
| ABTS020 | 20   | 20 - 21 | <b>33,170</b> | 1/2"           | 100 | 300 |
| ABTS022 | 22   | 22 - 23 | <b>34,020</b> | -              | 100 | 300 |
| ABTS025 | 25   | 25 - 26 | <b>35,120</b> | 3/4"           | 100 | 300 |
| ABTS028 | 28   | 28 - 29 | <b>41,697</b> | -              | 100 | 200 |
| ABTS032 | 30   | 30 - 32 | <b>53,740</b> | -              | 50  | 150 |

Self-service

| CODE      | SIZE | €/BAG        | PCS | BAGS |
|-----------|------|--------------|-----|------|
| LSABTS018 | 18   | <b>3,525</b> | 6   | 6    |
| LSABTS022 | 22   | <b>3,754</b> | 6   | 6    |

## AB-TS

Simple



02 Technical info P. 431

SANITATION



| CODE    | SIZE | ØD(mm)  | €/100         | SIZE IN INCHES |     |     |
|---------|------|---------|---------------|----------------|-----|-----|
| ABTD016 | 16   | 15 - 16 | <b>35,537</b> | 3/8"           | 100 | 400 |
| ABTD018 | 18   | 18 - 19 | <b>40,407</b> | -              | 100 | 300 |
| ABTD020 | 20   | 20 - 21 | <b>41,370</b> | 1/2"           | 100 | 200 |
| ABTD022 | 22   | 22 - 23 | <b>44,550</b> | -              | 100 | 200 |
| ABTD025 | 25   | 25 - 26 | <b>48,507</b> | 3/4"           | 100 | 200 |
| ABTD028 | 28   | 28 - 29 | <b>64,647</b> | -              | 50  | 150 |

Self-service

| CODE      | SIZE | €/BAG        | PCS | BAGS |
|-----------|------|--------------|-----|------|
| LSABTD018 | 18   | <b>3,288</b> | 4   | 6    |
| LSABTD022 | 22   | <b>2,464</b> | 2   | 7    |

## AB-TD

Double



02 Technical info P. 432

SANITATION



| CODE    | SIZE | ØD(mm)  | €/100         | SIZE IN INCHES |    |     |
|---------|------|---------|---------------|----------------|----|-----|
| ABTC020 | 20   | 20 - 21 | <b>68,830</b> | 1/2"           | 50 | 100 |
| ABTC025 | 25   | 25 - 26 | <b>84,633</b> | 3/4"           | 50 | 100 |

## AB-TC

Quadruple



APPLICATION EXAMPLES



# FI-CA



Cable clamp

## FI-CA AB

Clamp



MULTI-MATERIAL  Cable 

| CODE      | SIZE | €/100          |  |  |
|-----------|------|----------------|---|---|
| FICAAB080 | 80   | <b>160,000</b> | 50  |   |
| FICAAB119 | 119  | <b>266,667</b> | 25  |   |

## FI-CA PS

Single clamp



MULTI-MATERIAL  Cable 



| CODE      | SIZE | €/100         |  |  |
|-----------|------|---------------|---|---|
| FICAPS080 | 80   | <b>76,667</b> | 50  | 1.500   |

## FI-CA PD

Double clamp



MULTI-MATERIAL  Cable 



| CODE      | SIZE    | €/100          |  |  |
|-----------|---------|----------------|---|---|
| FICAPD160 | 80 (x2) | <b>113,333</b> | 50  | 800   |

## FI-CA CL

Clip



MULTI-MATERIAL  Cable 

| CODE     | SIZE | €/100         | DRILL |  |  |
|----------|------|---------------|-------|---|---|
| FICACL13 | Ø13  | <b>16,333</b> | 6     | 200   | 2.400   |
| FICACL26 | Ø16  | <b>21,667</b> | 6     | 100   | 1.200   |





Cable clamp

# FI-CA



## GR-NY BL

Nylon cable clips (polyethylene 6.6), with steel zinc-plated nail. White



| CODE    | SIZE              | SUITABLE FOR          | €/100  | MIN. ORDER QTY. |     |
|---------|-------------------|-----------------------|--------|-----------------|-----|
| GRBL010 | 2 x 0,7 - 2 x 1   | Cable Plano 6 x 3     | 7,637  | 400             | 100 |
| GRBL100 | 2 x 4             | Cable redondo Ø10     | 10,887 | 200             | 100 |
| GRBL120 | 3 x 6             | Cable redondo Ø12     | 13,367 | 200             | 100 |
| GRBL001 | 2 x 0,7           | Cable Paralelo        | 6,010  | 400             | 100 |
| GRBL002 | 2 x 0,4 - 0,7 ó 1 | Cable Paralelo        | 6,340  | 400             | 100 |
| GRBL020 | 2 x 1,5 - 3 x 1   | Cable Plano 7,5 x 3,5 | 7,757  | 400             | 100 |
| GRBL003 | 2 x 1 - 3 x 0,7   | Cable Plano 6 x 2     | 6,417  | 400             | 100 |
| GRBL030 | 3 x 1,5 - 3 x 2,5 | Cable Plano 10 x 3,5  | 9,383  | 400             | 100 |
| GRBL040 | 1 x 1 - 2 x 0,5   | Cable Redondo Ø4      | 7,393  | 400             | 100 |
| GRBL050 | 2 x 0,75          | Cable Redondo Ø5      | 7,597  | 400             | 100 |
| GRBL060 | 2 x 1             | Cable Redondo Ø6      | 8,043  | 400             | 100 |
| GRBL070 | 2 x 1-1,5         | Cable Redondo Ø7      | 8,777  | 400             | 100 |
| GRBL080 | 2 x 2,5           | Cable Redondo Ø8      | 8,853  | 400             | 100 |
| GRBL090 | 3 x 2,5           | Cable Redondo Ø9      | 9,753  | 400             | 100 |
| GRBL140 | 4 x 6             | Cable Redondo Ø14     | 15,880 | 200             | 100 |

Blister

| CODE     | SIZE            | €/BAG | PCS | BAGS |
|----------|-----------------|-------|-----|------|
| BZGRB100 | 2 x 4           | 2,302 | 6   | 20   |
| BZGRB010 | 2 x 0,7 - 2 x 1 | 2,302 | 6   | 20   |
| BZGRB120 | 3 x 6           | 2,302 | 6   | 15   |
| BZGRB001 | 2 x 0,7         | 2,302 | 6   | 20   |
| BZGRB050 | 2 x 0,75        | 2,302 | 6   | 20   |
| BZGRB060 | 2 x 1           | 2,302 | 6   | 20   |
| BZGRB070 | 2 x 1-1,5       | 2,302 | 6   | 20   |
| BZGRB080 | 2 x 2,5         | 2,302 | 6   | 20   |
| BZGRB090 | 3 x 2,5         | 2,302 | 6   | 20   |



## GR-NY N

Nylon cable clips (polyethylene 6.6), with steel zinc-plated nail. Black



| CODE    | SIZE            | SUITABLE FOR  | €/100  | MIN. ORDER QTY. |     |
|---------|-----------------|---------------|--------|-----------------|-----|
| GRNE060 | 2 x 1           | Cable Redondo | 8,043  | 400             | 100 |
| GRNE070 | 2 x 1 - 2 x 1,5 | Cable Redondo | 8,777  | 400             | 100 |
| GRNE080 | 2 x 2,50        | Cable Redondo | 8,853  | 400             | 100 |
| GRNE090 | 3 x 2,50        | Cable Redondo | 9,753  | 400             | 100 |
| GRNE100 | 2 x 4           | Cable Redondo | 10,887 | 200             | 100 |
| GRNE120 | 3 x 6           | Cable Redondo | 13,367 | 200             | 100 |



## GR-NY NT

Nylon cable clips (polyethylene 6.6), with steel zinc-plated nail. Natural colour



| CODE    | SIZE                                | SUITABLE FOR  | €/100  | MIN. ORDER QTY. |     |       |
|---------|-------------------------------------|---------------|--------|-----------------|-----|-------|
| GRNATTV | GRAPILLA - CLIP - CRAMPON TV - CLIP | Cable Redondo | 10,503 | 200             | 100 | 2.000 |





# PROFILES AND SUPPORTS



COMPATIBILITY TABLE

|                  |                |             | CHANNEL CANTILEVER ARMS |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     | CHANNEL BRACKETS     |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
|------------------|----------------|-------------|-------------------------|---------------|-----------------|-----------------|------------|------------|------------|------------|------------|------------|-------|-------|-------|-------|---------------------|---------------------|----------------------|-------|---------|---------|---------|----------------|-----------------|------------|---------|------------|------------|------------|-------------------|----------|---|---|
| Code             | Size (mm)      | LENGTH (mm) | Vertical IM10           | Vertical IM10 | Horizontal IM10 | Horizontal IM10 | Horizontal | Horizontal | Horizontal | Horizontal | Vertical   | 0°         | 45°   | 45°   | 90°   | Flat  | 45° Stainless steel | 90° Stainless steel | Stainless steel flat | 45°   | 90°     | 130°    | 90°     | 3-hole L-joint | T-joint 4 holes | 90°        | 1-hole  | 2 holes    | 3 holes    | 4 holes    | Union of 2 guides |          |   |   |
|                  |                |             | SPV2718                 | SPV3840       | SPH2718         | SPH3840         | SPCH2718   | SPCH3840   | SPRXH4121  | SPRXV4121  | SPUX412100 | SPUX412145 | PPX01 | RTX01 | EMZ45 | EMZ90 | EMZ00               | EMI45               | EMI90                | EMI00 | EMX4502 | EMX9002 | EMX1302 | EMX9004        | UNEX412103      | UNTX412104 | SCRX090 | UNPX412101 | UNPX412102 | UNPX412103 | UNPX412104        | EMPX4121 |   |   |
| <b>GPZ201010</b> | 20 x 10 x 1    | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPZ250808</b> | 25 x 8 x 0,8   | 1.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPG271812</b> | 27 x 18 x 1,25 | 2.000       | •                       |               | •               |                 | •          |            |            |            |            |            |       |       | •     | •     | •                   |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPG283018</b> | 28 x 30 x 1,8  | 2.000       | •                       |               | •               |                 | •          |            |            |            |            |            |       |       | •     | •     | •                   |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPG351312</b> | 35 x 13 x 1,2  | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPG384020</b> | 38 x 40 x 2    | 2.000       |                         | •             |                 | •               |            | •          |            |            |            |            |       |       | •     | •     | •                   |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPG402015</b> | 40 x 20 x 1,5  | 2.000       |                         | •             |                 | •               |            | •          |            |            |            |            |       |       | •     | •     | •                   |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPI271812</b> | 27 x 18 x 1,25 | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       | •                   | •                   | •                    |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPI283015</b> | 28 x 30 x 1,8  | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       | •                   | •                   | •                    |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPP271812</b> | 27 x 18 x 1,25 | 1.000       | •                       |               | •               |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPV251120</b> | 25 x 11 x 2    | 1.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       | •     | •     | •                   |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GLO357510</b> | 35 x 7,5 x 1   | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GLO351515</b> | 35 x 15 x 1,5  | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPO357510</b> | 35 x 7,5 x 1   | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPO351515</b> | 35 x 15 x 1,5  | 2.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>GPX412115</b> | 41 x 21 x 1,5  | 3.000       |                         |               |                 |                 |            |            |            | •          | •          | •          | •     | •     | •     | •     |                     |                     |                      | •     | •       | •       | •       | •              | •               | •          | •       | •          | •          | •          | •                 | •        | • | • |
| <b>GPX412120</b> | 41 x 21 x 2,00 | 3.000       |                         |               |                 |                 |            |            |            | •          | •          | •          | •     | •     | •     | •     |                     |                     |                      | •     | •       | •       | •       | •              | •               | •          | •       | •          | •          | •          | •                 | •        | • | • |
| <b>GPX412125</b> | 41 x 21 x 2,5  | 3.000       |                         |               |                 |                 |            |            |            | •          | •          | •          | •     | •     | •     | •     |                     |                     |                      | •     | •       | •       | •       | •              | •               | •          | •       | •          | •          | •          | •                 | •        | • | • |
| <b>GPX414115</b> | 41 x 41 x 1,50 | 3.000       |                         |               |                 |                 |            |            |            | •          | •          | •          | •     | •     | •     | •     |                     |                     |                      | •     | •       | •       | •       | •              | •               | •          | •       | •          | •          | •          | •                 | •        | • | • |
| <b>GPX414120</b> | 41 x 41 x 2,00 | 3.000       |                         |               |                 |                 |            |            |            | •          | •          | •          | •     | •     | •     | •     |                     |                     |                      | •     | •       | •       | •       | •              | •               | •          | •       | •          | •          | •          | •                 | •        | • | • |
| <b>GPX414125</b> | 41 x 41 x 2,5  | 3.000       |                         |               |                 |                 |            |            |            | •          | •          | •          | •     | •     | •     | •     |                     |                     |                      | •     | •       | •       | •       | •              | •               | •          | •       | •          | •          | •          | •                 | •        | • | • |
| <b>SPZ271820</b> | 27 x 18 x 1,25 | 200         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ271830</b> | 27 x 18 x 1,25 | 300         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ384020</b> | 38 x 40 x 2    | 200         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ384025</b> | 38 x 40 x 2    | 250         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ384030</b> | 38 x 40 x 2    | 300         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ384035</b> | 38 x 40 x 2    | 350         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ384040</b> | 38 x 40 x 2    | 400         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ384050</b> | 38 x 40 x 2    | 500         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPZ384060</b> | 38 x 40 x 2    | 600         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX412115</b> | 41 x 21 x 2,5  | 150         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX412130</b> | 41 x 21 x 2,5  | 300         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX412145</b> | 41 x 21 x 2,5  | 450         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX414115</b> | 41 x 41 x 2,5  | 150         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX414130</b> | 41 x 41 x 2,5  | 300         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX414145</b> | 41 x 41 x 2,5  | 450         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX414160</b> | 41 x 41 x 2,5  | 600         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX414175</b> | 41 x 41 x 2,5  | 750         |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |
| <b>SPX414110</b> | 41 x 41 x 2,5  | 1.000       |                         |               |                 |                 |            |            |            |            |            |            |       |       |       |       |                     |                     |                      |       |         |         |         |                |                 |            |         |            |            |            |                   |          |   |   |

| CHANNEL U-FITTINGS |            | CHANNEL STUD NUTS |  | CHANNEL NUTS |  | PLASTIC CAPS |  |
|--------------------|------------|-------------------|--|--------------|--|--------------|--|
| GZ2718             |            |                   |  |              |  |              |  |
| PGZ2830            |            |                   |  |              |  |              |  |
| PGZ3840            |            |                   |  |              |  |              |  |
| PGI2718            |            |                   |  |              |  |              |  |
| PGI2830            |            |                   |  |              |  |              |  |
| PGI3840            |            |                   |  |              |  |              |  |
| PGX4121            |            |                   |  |              |  |              |  |
| PGX4141            |            |                   |  |              |  |              |  |
| TC230620           | M6 x 20    |                   |  |              |  |              |  |
| TC230820           | M8 x 20    |                   |  |              |  |              |  |
| TC230830           | M8 x 30    |                   |  |              |  |              |  |
| TC340830           | M8 x 30    |                   |  |              |  |              |  |
| TC341030           | M10 x 30   |                   |  |              |  |              |  |
| TCR230620          | M6 x 20    |                   |  |              |  |              |  |
| TCR230820          | M8 x 20    |                   |  |              |  |              |  |
| TCR230830          | M8 x 30    |                   |  |              |  |              |  |
| TCR340830          | M8 x 30    |                   |  |              |  |              |  |
| TCR341030          | M10 x 30   |                   |  |              |  |              |  |
| TCRX0830           | M8 x 30    |                   |  |              |  |              |  |
| TCRX0860           | M8 x 60    |                   |  |              |  |              |  |
| TCRX1030           | M10 x 30   |                   |  |              |  |              |  |
| TCRX1060           | M10 x 60   |                   |  |              |  |              |  |
| TUG201006          | M6         |                   |  |              |  |              |  |
| TUG201008          | M8         |                   |  |              |  |              |  |
| TUG271808          | M8         |                   |  |              |  |              |  |
| TUG271810          | M10        |                   |  |              |  |              |  |
| TUGRA2706          | M6         |                   |  |              |  |              |  |
| TUGRA2708          | M8         |                   |  |              |  |              |  |
| TUGRA3808          | M8         |                   |  |              |  |              |  |
| TUGRA3810          | M10        |                   |  |              |  |              |  |
| TUCX08             | M8         |                   |  |              |  |              |  |
| TUCX10             | M10        |                   |  |              |  |              |  |
| TUCXMU08           | Spring nut |                   |  |              |  |              |  |
| TUCXMU10           | Spring nut |                   |  |              |  |              |  |
| TURX08             |            |                   |  |              |  |              |  |
| TURX10             |            |                   |  |              |  |              |  |
| TURX12             |            |                   |  |              |  |              |  |
| TURXA08            |            |                   |  |              |  |              |  |
| TURXA10            |            |                   |  |              |  |              |  |
| SOTP2718           |            |                   |  |              |  |              |  |
| SOTP2830           |            |                   |  |              |  |              |  |
| SOTP3840           |            |                   |  |              |  |              |  |
| SOTP4121           |            |                   |  |              |  |              |  |
| SOTP4141           |            |                   |  |              |  |              |  |



# GP

Type "C" profiles for light loads


## GP-Z

Slotted strut channel. Zinc-plated



METAL



| CODE      | SIZE                 | €/100          | LENGTH |  |
|-----------|----------------------|----------------|--------|---|
| GPZ201010 | 20 x 10 x 1 x 2000   | <b>790,317</b> | 2.000  | 30  |
| GPZ250808 | 25 x 8 x 0,80 x 1000 | <b>547,667</b> | 1.000  | 30  |


## GP-G

Slotted strut channel. ATLANTIS C2-H



METAL



| CODE      | SIZE                  | €/100            | LENGTH |  |
|-----------|-----------------------|------------------|--------|---|
| GPG271812 | 27 x 18 x 1,25 x 2000 | <b>1.289,257</b> | 2.000  | 10  |
| GPG283018 | 28 x 30 x 1,8 x 2000  | <b>2.726,040</b> | 2.000  | 10  |
| GPG351312 | 35 x 13 x 1,2 x 2000  | <b>2.639,597</b> | 2.000  | 10  |
| GPG384020 | 38 x 40 x 2 x 2000    | <b>4.286,003</b> | 2.000  | 6   |
| GPG402015 | 40 x 20 x 1,50 x 2000 | <b>2.071,213</b> | 2.000  | 10  |


## GP-A2

Slotted strut channel. A2 Stainless steel



STAINLESS  
STEEL



| CODE      | SIZE                  | €/100             | LENGTH |  |
|-----------|-----------------------|-------------------|--------|---|
| GPI271812 | 27 x 18 x 1,25 x 2000 | <b>10.485,197</b> | 2.000  | 6   |
| GPI283015 | 28 x 30 x 1,50 x 2000 | <b>22.468,757</b> | 2.000  | 6   |
| GPI384020 | 38 x 40 x 2,00 x 2000 | <b>26.493,367</b> | -      | 5   |

## GP-PL

Slotted strut channel. Yellow plastified



METAL



| CODE      | SIZE           | €/100            | LENGTH |  |
|-----------|----------------|------------------|--------|---|
| GPP271812 | 27 x 18 x 1,25 | <b>1.662,273</b> | 1.000  | 10  |

## GP-PVC

Slotted strut channel. PVC



METAL



| CODE      | SIZE               | €/100          | LENGTH |  |
|-----------|--------------------|----------------|--------|---|
| GPV251120 | 25 x 11 x 2 x 1000 | <b>677,597</b> | 1.000  | 30  |

Type "C" profiles for light loads


GP

METAL



**GL-O**

ATLANTIS C2-M Smooth Omega guide

| CODE      | SIZE       | €/100            |  |
|-----------|------------|------------------|--|
| GLO357510 | 35x7,5x1,0 | <b>1.002,700</b> | 10   |
| GLO351515 | 35x15x1,5  | <b>1.329,240</b> | 10   |



METAL

**GP-O**

ATLANTIS C2-M Perforated Omega guide

| CODE      | SIZE       | €/100            |  |
|-----------|------------|------------------|--|
| GPO357510 | 35x7,5x1,0 | <b>1.010,977</b> | 10   |
| GPO351515 | 35x15x1,5  | <b>1.325,130</b> | 10   |



Type "C" supports for light loads


SP

METAL



**SP-Z**

Zinc-plated perforated support

| CODE      | SIZE                 | €/100            |  |
|-----------|----------------------|------------------|--|
| SPZ271820 | 27 x 18 x 1,25 x 200 | <b>683,687</b>   | 10   |
| SPZ271830 | 27 x 18 x 1,25 x 300 | <b>737,777</b>   | 10   |
| SPZ384020 | 38 x 40 x 2 x 200    | <b>1.117,973</b> | 10   |
| SPZ384025 | 38 x 40 x 2 x 250    | <b>1.255,027</b> | 10   |
| SPZ384030 | 38 x 40 x 2 x 300    | <b>1.379,980</b> | 10   |
| SPZ384035 | 38 x 40 x 2 x 350    | <b>1.478,490</b> | 10   |
| SPZ384040 | 38 x 40 x 2 x 400    | <b>1.723,220</b> | 10   |
| SPZ384050 | 38 x 40 x 2 x 500    | <b>2.092,737</b> | 10   |
| SPZ384060 | 38 x 40 x 2 x 600    | <b>2.330,450</b> | 10   |




METAL



**SP-V**

Vertical support

| CODE    | SIZE              | SUITABLE FOR  | €/100          |  |
|---------|-------------------|---------------|----------------|--|
| SPV2718 | M10 (27/18-28/30) | 27/18 - 28/30 | <b>489,720</b> | 50   |
| SPV3840 | M10 (38/40-40/20) | 38/40 - 40/20 | <b>520,663</b> | 50   |



# SP

Type "C" supports for light loads

## SP-H

Horizontal support



METAL



| CODE    | SIZE              | SUITABLE FOR  | €/100          |    |
|---------|-------------------|---------------|----------------|----|
| SPH2718 | M10 (27/18-28/30) | 27/18 - 28/30 | <b>437,433</b> | 50 |
| SPH3840 | M10 (38/40-40/20) | 38/40 - 40/20 | <b>453,693</b> | 50 |

## SP-HX

Horizontal channel arm



METAL



| CODE     | SIZE                          | SUITABLE FOR                  | €/100            |    |
|----------|-------------------------------|-------------------------------|------------------|----|
| SPGH2718 | M10 (27/18-28/30)             | 27/18 - 28/30                 | <b>686,793</b>   | 10 |
| SPGH3840 | M10 (38/40-40/20-41/21-41/41) | 38/40 - 40/20 - 41/21 - 41/41 | <b>1.334,823</b> | 10 |

# PE-AC

Accessories for type "C" profiles

## TO-GU

Guide stop screw



METAL



| CODE     | SIZE     | SUITABLE FOR                          | €/100          |     |     |
|----------|----------|---------------------------------------|----------------|-----|-----|
| TG230620 | M6 x 20  | 20/10 - 27/18 - 28/30 - 25/08 - 25/11 | <b>65,040</b>  | 100 | 800 |
| TG230820 | M8 x 20  | 27/18 - 28/30 - 25/08                 | <b>80,960</b>  | 100 | 400 |
| TG230830 | M8 x 30  | 27/18 - 28/30 - 25/08                 | <b>85,213</b>  | 100 | 600 |
| TG340830 | M8 x 30  | 38/40 - 40/20                         | <b>117,257</b> | 100 | 600 |
| TG341030 | M10 x 30 | 38/40 - 40/21                         | <b>158,163</b> | 100 | 400 |

## TO-GR

Fast-fixing guide stop screw



METAL



| CODE      | SIZE   | SUITABLE FOR                          | €/100          |     |     |
|-----------|--------|---------------------------------------|----------------|-----|-----|
| TGR230620 | M6x20  | 20/10 - 25/08 - 25/11 - 27/18 - 28/30 | <b>180,037</b> | 100 | 600 |
| TGR230820 | M8x20  | 20/10 - 25/08 - 25/11 - 27/18 - 28/30 | <b>190,303</b> | 100 | 600 |
| TGR230830 | M8x30  | 20/10 - 25/08 - 25/11 - 27/18 - 28/30 | <b>194,837</b> | 100 | 600 |
| TGR340830 | M8x30  | 27/18 - 28/30 - 38/40 - 40/20         | <b>244,717</b> | 100 | 400 |
| TGR341030 | M10x30 | 27/18 - 28/30 - 38/40 - 40/20         | <b>276,320</b> | 50  | 300 |

## TU-GU

Channel nuts



METAL




| CODE      | SIZE | SUITABLE FOR                  | €/100         |     |       |
|-----------|------|-------------------------------|---------------|-----|-------|
| TUG201006 | M6   | 20/10 - 25/08 - 27/18 - 28/30 | <b>15,803</b> | 100 | 3.000 |
| TUG201008 | M8   | 20/10 - 25/08 - 27/18 - 28/30 | <b>15,803</b> | 100 | 2.400 |
| TUG271808 | M8   | 27/18 - 28/30 - 38/40 - 40/20 | <b>42,557</b> | 100 | 1.200 |
| TUG271810 | M10  | 27/18 - 28/30 - 38/40 - 40/20 | <b>42,557</b> | 100 | 1.200 |

Accessories for type "C" profiles

# PE-AC

METAL



| CODE      | SIZE | SUITABLE FOR                          | €/100          |  |  |
|-----------|------|---------------------------------------|----------------|---|---|
| TUGRA2706 | M6   | 20/10 - 25/08 - 25/11 - 27/18 - 28/30 | <b>145,337</b> | 50  | 600   |
| TUGRA2708 | M8   | 20/10 - 25/08 - 25/11 - 27/18 - 28/30 | <b>145,337</b> | 50  | 600   |
| TUGRA3808 | M8   | 27/18 - 28/30 - 38/40 - 40/20         | <b>186,383</b> | 50  | 600   |
| TUGRA3810 | M10  | 27/18 - 28/30 - 38/40 - 40/20         | <b>198,413</b> | 50  | 600   |

## TU-GRA

Guide nut with fast-fixing washer



METAL



| CODE  | SIZE        | SUITABLE FOR  | €/100          |  |  |
|-------|-------------|---|----------------|--|---|
| EMZ45 | 50 x 50 45° | 25/11 - 27/18 - 28/30 - 38/40 - 40/20 - 41/21 - 41/41 | <b>111,147</b> | 100  | 400   |
| EMZ90 | 54 x 54 90° | 25/11 - 27/18 - 28/30 - 38/40 - 40/20 - 41/21 - 41/41 | <b>111,147</b> | 100  | 300   |
| EMZ00 | 100 180°    | 25/11 - 27/18 - 28/30 - 38/40 - 40/20 - 41/21 - 41/41 | <b>108,367</b> | 100  | -   |

## EG-Z

Zinc-plated channel bracket



STAINLESS  
STEEL



| CODE  | SIZE        | SUITABLE FOR          | €/100          |  |  |
|-------|-------------|-----------------------|----------------|---|---|
| EMI45 | 50 x 50 45° | 27/18 - 28/30 - 38/40 | <b>543,020</b> | 50  | 200   |
| EMI90 | 54 x 54 90° | 27/18 - 28/30 - 38/40 | <b>543,020</b> | 50  | -   |
| EMI00 | 100 180°    | 27/18 - 28/30 - 38/40 | <b>538,363</b> | 50  | 200   |

## EG-A2

A2 Stainless steel channel bracket



METAL



| CODE    | SIZE             | SUITABLE FOR | €/100         |  |
|---------|------------------|--------------|---------------|--|
| PUZ2718 | M8 (27/18-28/30) | 27/18-28/30  | <b>50,133</b> | 50   |
| PUZ3840 | M8 (38/40)       | 38/40        | <b>55,443</b> | 50   |

## PU-Z

Union plate for profiles



METAL



| CODE    | SIZE         | SUITABLE FOR | €/100          |  |  |
|---------|--------------|--------------|----------------|---|---|
| PGZ2718 | 27 / 18 x 81 | 27/18        | <b>93,777</b>  | 50  | 300   |
| PGZ2830 | 28 / 30 x 81 | 28/30        | <b>113,570</b> | 50  | 300   |
| PGZ3840 | 38 / 40 x 93 | 38/40        | <b>126,710</b> | 50  | 100   |

## PG-Z

Zinc-plated Channel U-fitting



STAINLESS  
STEEL



| CODE    | SIZE         | SUITABLE FOR | €/100          |  |  |
|---------|--------------|--------------|----------------|---|---|
| PGI2718 | 27 / 18 x 81 | 27/18        | <b>264,863</b> | 50  | 300   |
| PGI2830 | 28 / 30 x 81 | 28/30        | <b>304,597</b> | 50  | 200   |
| PGI3840 | 38 / 40 x 93 | 38/40        | <b>370,813</b> | 50  | 100   |

## PG-A2

A2 Stainless steel Channel U-fitting



# PE-AC

Accessories for type "C" profiles

## SO-TP

Plastic caps

METAL



| CODE     | SIZE  | SUITABLE FOR | €/100         |     |     |
|----------|-------|--------------|---------------|-----|-----|
| SOTP2718 | 27/18 | 27/18        | <b>29,583</b> | 100 | 400 |
| SOTP2830 | 28/30 | 28/30        | <b>35,583</b> | 100 | 300 |
| SOTP3840 | 38/40 | 38/40        | <b>57,687</b> | 100 | 300 |
| SOTP4121 | 41/21 | 41/21        | <b>47,407</b> | 100 | 600 |
| SOTP4141 | 41/41 | 41/41        | <b>49,707</b> | 100 | 300 |

# GPX

Indextrut Profiles for heavy loads

## GP-X 21

Indextrut Perforated guide 41x21

METAL



| CODE        | SIZE          | €/100            | LENGTH |    |
|-------------|---------------|------------------|--------|----|
| GPX412115   | 41 x 21 x 1,5 | <b>4.217,910</b> | 3.000  | 10 |
| GPX412120   | 41 x 21 x 2   | <b>4.936,667</b> | 3.000  | 10 |
| GPX412125   | 41 x 21 x 2,5 | <b>7.058,433</b> | 3.000  | 6  |
| GPX2M412120 | 41 x 21 x 2   | <b>3.444,440</b> | 2.000  | 10 |

## GP-X 41

Indextrut Perforated guide 41x41

METAL



| CODE        | SIZE          | €/100            | LENGTH |    |
|-------------|---------------|------------------|--------|----|
| GPX414115   | 41 x 41 x 1,5 | <b>5.489,327</b> | 3.000  | 10 |
| GPX414120   | 41 x 41 x 2   | <b>8.035,067</b> | 3.000  | 6  |
| GPX414125   | 41 x 41 x 2,5 | <b>9.966,557</b> | 3.000  | 6  |
| GPX2M414120 | 41 x 41 x 2   | <b>5.420,700</b> | 2.000  | 10 |

# SPX

Indextrut Supports for heavy loads

## SP-X

Indextrut Perforated support

METAL



| CODE      | SIZE                 | €/100            | LENGTH |    |
|-----------|----------------------|------------------|--------|----|
| SPX412115 | 41 x 21 x 2,5 x 150  | <b>989,170</b>   | 150    | 10 |
| SPX412130 | 41 x 21 x 2,5 x 300  | <b>1.361,757</b> | 300    | 10 |
| SPX412145 | 41 x 21 x 2,5 x 450  | <b>1.729,377</b> | 450    | 10 |
| SPX414115 | 41 x 41 x 2,5 x 150  | <b>1.281,780</b> | 150    | 10 |
| SPX414130 | 41 x 41 x 2,5 x 300  | <b>1.795,667</b> | 300    | 10 |
| SPX414145 | 41 x 41 x 2,5 x 450  | <b>2.348,147</b> | 450    | 10 |
| SPX414160 | 41 x 41 x 2,5 x 600  | <b>2.952,300</b> | 600    | 10 |
| SPX414175 | 41 x 41 x 2,5 x 750  | <b>3.560,063</b> | 750    | 10 |
| SPX414110 | 41 x 41 x 2,5 x 1000 | <b>4.477,057</b> | 1.000  | 2  |

## SP-RX

Indextrut Rectangular-base "U" support

METAL



| CODE      | SIZE             | SUITABLE FOR            | €/100            |    |
|-----------|------------------|-------------------------|------------------|----|
| SPRXH4121 | M12(41/21-41/41) | Indextrut 41/41 - 41/21 | <b>1.313,243</b> | 12 |
| SPRXV4121 | M12(41/21-41/41) | Indextrut 41/41 - 41/21 | <b>1.313,243</b> | 12 |



Indextrut Supports for heavy loads

SPX

METAL



| CODE       | SIZE              | SUITABLE FOR            | €/100            |  |
|------------|-------------------|-------------------------|------------------|--|
| SPUX412100 | M16 (41/21-41/41) | Indextrut 41/41 - 41/21 | <b>1.668,747</b> | 12   |
| SPUX412145 | M16 (41/21-41/41) | Indextrut 41/41 - 41/21 | <b>1.668,747</b> | 12   |

SP-UX

Indextrut Square-base "U" support



METAL



| CODE  | SIZE             | SUITABLE FOR            | €/100            |  |
|-------|------------------|-------------------------|------------------|--|
| PRX01 | M8 (41/21-41/41) | Indextrut 41/41 - 41/21 | <b>1.449,870</b> | 12   |

PR-X

Indextrut Adjustable support



METAL



| CODE    | SIZE                | SUITABLE FOR            | €/100            |  |  |
|---------|---------------------|-------------------------|------------------|---|---|
| RESX300 | 252 x 252 x 6 (300) | Indextrut 41/41 - 41/21 | <b>1.100,993</b> | 10  | 20  |
| RESX550 | 428 x 428 x 6 (550) | Indextrut 41/41 - 41/21 | <b>1.753,927</b> | 10  | 20  |

RE-SX

Indextrut Support reinforcement




Indextrut Accessories for profiles

PX-AC

METAL



| CODE     | SIZE  | SUITABLE FOR | €/100         |  |  |
|----------|-------|--------------|---------------|---|---|
| SOTP2718 | 27/18 | 27/18        | <b>29,583</b> | 100   | 400   |
| SOTP2830 | 28/30 | 28/30        | <b>35,583</b> | 100   | 300   |
| SOTP3840 | 38/40 | 38/40        | <b>57,687</b> | 100   | 300   |
| SOTP4121 | 41/21 | 41/21        | <b>47,407</b> | 100   | 600   |
| SOTP4141 | 41/41 | 41/41        | <b>49,707</b> | 100   | 300   |

SO-TP

Plastic caps



METAL



| CODE    | SIZE     | SUITABLE FOR            | €/100          |  |  |
|---------|----------|-------------------------|----------------|---|---|
| TGX0840 | M8 x 40  | Indextrut 41/41 - 41/21 | <b>116,910</b> | 100   | 400   |
| TGX0860 | M8 x 60  | Indextrut 41/41 - 41/21 | <b>125,307</b> | 50  | 300   |
| TGX1040 | M10 x 40 | Indextrut 41/41 - 41/21 | <b>149,437</b> | 50  | 300   |
| TGX1060 | M10 x 60 | Indextrut 41/41 - 41/21 | <b>167,613</b> | 50  | 200   |


TG-X

Indextrut Guide stop screw



METAL



| CODE     | SIZE   | €/100          |  |
|----------|--------|----------------|--|
| TGRX0830 | M8x30  | <b>274,053</b> | 100  |
| TGRX0860 | M8x60  | <b>286,590</b> | 50   |
| TGRX1030 | M10x30 | <b>311,527</b> | 50   |
| TGRX1060 | M10x60 | <b>330,733</b> | 50   |

TO-GRX

Indextrut Fast-fixing guide stop screw



# PX-AC

Indextrut Accessories for profiles

## TU-GX

Indextrut Guide nut



METAL



| CODE   | SIZE | SUITABLE FOR            | €/100         |     |     |
|--------|------|-------------------------|---------------|-----|-----|
| TUGX08 | M8   | Indextrut 41/41 - 41/21 | <b>64,477</b> | 100 | 800 |
| TUGX10 | M10  | Indextrut 41/41 - 41/21 | <b>71,293</b> | 100 | 800 |

## TU-MU

Indextrut channel spring nut



METAL



| CODE     | SIZE | SUITABLE FOR    | €/100         |     |     |
|----------|------|-----------------|---------------|-----|-----|
| TUGXMU08 | M8   | Indextrut 41/41 | <b>94,217</b> | 100 | 400 |
| TUGXMU10 | M10  | Indextrut 41/41 | <b>94,217</b> | 100 | 400 |

## TU-RX

Indextrut Fast-fixing guide nut



METAL



| CODE   | SIZE | SUITABLE FOR            | €/100          |     |     |
|--------|------|-------------------------|----------------|-----|-----|
| TURX08 | M8   | Indextrut 41/41 - 41/21 | <b>89,247</b>  | 100 | 400 |
| TURX10 | M10  | Indextrut 41/41 - 41/21 | <b>101,960</b> | 100 | 400 |
| TURX12 | M12  | Indextrut 41/41 - 41/21 | <b>113,073</b> | 50  | 300 |

## TU-RXA

Indextrut Guide nut with fast-fixing washer



METAL



| CODE    | SIZE | €/100          |    |
|---------|------|----------------|----|
| TURXA08 | M8   | <b>215,400</b> | 50 |
| TURXA10 | M10  | <b>235,457</b> | 50 |

## EG-X

Channel bracket Indextrut



METAL



| CODE    | SIZE                | SUITABLE FOR            | €/100          | HOLE NUM |    |     |
|---------|---------------------|-------------------------|----------------|----------|----|-----|
| EMX4502 | 86/52 x 40 x 5 45°  | Indextrut 41/41 - 41/21 | <b>263,987</b> | 2        | 25 | 125 |
| EMX1302 | 71/48 x 40 x 5 135° | Indextrut 41/41 - 41/21 | <b>281,023</b> | 2        | 20 | 100 |
| EMX9002 | 48 x 51 x 5 90°     | Indextrut 41/41 - 41/21 | <b>172,443</b> | 2        | 50 | 150 |
| EMX9004 | 95 x 98 x 5 90°     | Indextrut 41/41 - 41/21 | <b>272,507</b> | 4        | 25 | 75  |

Indextrut Accessories for profiles

PX-AC

METAL



| CODE    | SIZE           | SUITABLE FOR            | €/100          |  |
|---------|----------------|-------------------------|----------------|--|
| SCRX090 | 100 x 100 x 40 | Indextrut 41/41 - 41/21 | <b>648,797</b> | 10   |

**SC-RX**

Heavyduty angled bracket Indextrut



METAL



| CODE     | SIZE             | SUITABLE FOR            | €/100            |  |
|----------|------------------|-------------------------|------------------|--|
| EMPX4121 | M8 (41/21-41/41) | Indextrut 41/41 - 41/21 | <b>1.017,557</b> | 10   |

**EMP-X**

Indextrut Splice



METAL



| CODE  | SIZE   | SUITABLE FOR          | €/100          |  |
|-------|--------|-----------------------|----------------|--|
| RTX01 | 50 x 5 | 41/21 - 41/41 - 41/62 | <b>780,000</b> | 10   |



**RT-X**

Indextrut Ball bushing support



METAL



| CODE       | SIZE         | €/100          | HOLE NUM |  |  |
|------------|--------------|----------------|----------|---|---|
| UNPX412101 | 40 x 40 x 5  | <b>68,900</b>  | 1        | 50  | 300   |
| UNPX412102 | 40 x 90 x 5  | <b>142,240</b> | 2        | 25  | 150   |
| UNPX412103 | 40 x 138 x 5 | <b>200,027</b> | 3        | 25  | 125   |
| UNPX412104 | 40 x 186 x 5 | <b>248,917</b> | 4        | 10  | 60  |

**UN-PX**

Indextrut Connector plate



METAL



| CODE       | SIZE        | €/100          | HOLE NUM |  |
|------------|-------------|----------------|----------|--|
| ENEX412103 | 89 x 89 x 5 | <b>362,250</b> | 3        | 25   |

**UN-EX**

Connector plate Indextrut Square



# PX-AC

Indextrut Accessories for profiles

## UN-TX

Connector plate "T" Indextrut



METAL



| CODE       | SIZE         | €/100          | HOLE NUM |    |
|------------|--------------|----------------|----------|----|
| UNTX412104 | 138 x 89 x 5 | <b>266,700</b> | 4        | 25 |

## PG-X

Channel U-fitting Indextrut



METAL



| CODE    | SIZE       | SUITABLE FOR    | €/100          |    |    |
|---------|------------|-----------------|----------------|----|----|
| PGX4121 | 41/21 x 40 | Indextrut 41/21 | <b>334,467</b> | 15 | 90 |
| PGX4141 | 41/41 x 40 | Indextrut 41/41 | <b>443,303</b> | 10 | 60 |

## AB-GX

Perforated profile clamp Indextrut



METAL



| CODE     | SIZE          | SUITABLE FOR            | €/100          |    |
|----------|---------------|-------------------------|----------------|----|
| ABGX4121 | 41x21 - 41x41 | Indextrut 41/41 - 41/21 | <b>514,947</b> | 20 |

# VE-AC

Ventilation accessories

## UN-CO

Conduit union type "C"



METAL



| CODE     | SIZE    | €/100         |     |     |
|----------|---------|---------------|-----|-----|
| UNCO3220 | 32 x 20 | <b>52,277</b> | 100 | 400 |

## SO-PG

Isophonic rubber profile for support



METAL



| CODE   | SIZE | SUITABLE FOR  | €/PC           |   |
|--------|------|---------------|----------------|---|
| SOPG27 | 27   | 27/18 - 28/30 | <b>137,800</b> | 1 |
| SOPG38 | 38   | 38/40 - 40/20 | <b>196,631</b> | 1 |
| SOPG41 | 41   | 41/21 - 41/41 | <b>201,163</b> | 1 |



# INSTALLATION SYSTEMS AND FIXINGS FOR SOLAR PANELS





# ISF-GG

Clamps for photovoltaic modules assembly

## KFR-SC

Quick pre-assembled clamp



| CODE      | SIZE    | €/100          |  |  |
|-----------|---------|----------------|---|---|
| KFRSC3050 | 30 - 50 | <b>583,910</b> | 10  | 240   |

## PGS-A

Simple clamp



| CODE   | SIZE | €/100         |  |  |
|--------|------|---------------|---|---|
| PGSA26 | 26   | <b>95,602</b> | 20  | 720   |

## GM-A

Aluminium gauge for solar frame



| CODE              | SIZE | €/100          |  |  |
|-------------------|------|----------------|---|---|
| GMA035            | 35   | <b>172,689</b> | 10  | 120   |
| GMA040            | 40   | <b>190,220</b> | 10  | 120   |
| GMA030 <b>NEW</b> | 30   | <b>166,646</b> | 10  | 120   |


# ISF-PU

Profiles, joints, channels and connectors for supporting structure

## GP-XS

INDEXTRUT solar perforated guide. Atlantis C4-M steel



| CODE                   | SIZE                     | €/100            |  |
|------------------------|--------------------------|------------------|---|
| GPXS4115012            | 41 x 41 x 1,5 - L.125mm  | <b>360,934</b>   | 50  |
| GPXS4115125 <b>NEW</b> | 41 x 41 x 1,5 - L.1250mm | <b>2.026,550</b> | 10  |
| GPXS4115187 <b>NEW</b> | 41 x 41 x 1,5 - L.1875mm | <b>3.008,747</b> | 10  |
| GPXS4115250 <b>NEW</b> | 41 x 41 x 1,5 - L.2500mm | <b>3.998,713</b> | 6   |
| GPXS4115362 <b>NEW</b> | 41 x 41 x 1,5 - L.3625mm | <b>5.779,227</b> | 6   |

## EMP-XS

INDEXTRUT solar connector. Atlantis C4-M steel





| CODE      | SIZE     | €/100          |  |
|-----------|----------|----------------|---|
| EMPXS4115 | 41 x 1,5 | <b>369,069</b> | 40  |

Profiles, joints, channels and connectors for supporting structure

# ISF-PU

METAL



| CODE        | SIZE           | €/100          |  |  |
|-------------|----------------|----------------|---|---|
| GPVD4162012 | 16 x 20 x 1,20 | <b>689,233</b> | 50  | -   |


## GP-VD NEW

INDEXTRUT solar perforated guide for fixing in discontinuous valley. Atlantis C4-M steel



METAL



| CODE                        | SIZE               | €/100            |  |
|-----------------------------|--------------------|------------------|--|
| PSAA0400                    | 80 x 35 - L.400    | <b>1.132,690</b> | 20   |
| PSAA1250                    | 80 x 35 - L.1250   | <b>3.105,327</b> | 2  |
| PSAA1875 <small>NEW</small> | 80 x 35 - L.1875mm | <b>4.457,927</b> | 2  |
| PSAA2500 <small>NEW</small> | 80 x 35 - L.2500mm | <b>5.962,750</b> | 2  |
| PSAA3625 <small>NEW</small> | 80 x 35 - L.3625mm | <b>8.415,697</b> | 2  |


## PSA-A

Winged aluminum profile



METAL



| CODE     | SIZE | SUITABLE FOR | €/100          |  |
|----------|------|--------------|----------------|--|
| PSAUN200 | 200  | PSA-UN       | <b>363,110</b> | 20   |


## PSA-UN

Aluminium connector for profile PSA-A



METAL



| CODE      | SIZE            | €/100          |  |
|-----------|-----------------|----------------|--|
| PSAAV0150 | 90 x 75 - L.150 | <b>975,520</b> | 20   |

## PSA-AV

Aluminium profile with wings for discontinuous direct valley fixing



METAL



| CODE       | SIZE               | €/100             |  |
|------------|--------------------|-------------------|--|
| PSEA601250 | 47 x 60 - L.1250mm | <b>3.956,283</b>  | 2  |
| PSEA601875 | 47 x 60 - L.1875mm | <b>5.842,287</b>  | 2  |
| PSEA602500 | 47 x 60 - L.2500mm | <b>7.766,230</b>  | 2  |
| PSEA603625 | 47 x 60 - L.3625mm | <b>11.169,717</b> | 2  |

## PSE-A

Aluminium profile for assembled fixing



# ISF-PU

Profiles, joints, channels and connectors for supporting structure


## PSE-UN

Aluminium connector for PSE-A profile



METAL



| CODE        | SIZE     | SUITABLE FOR | €/100          |  |
|-------------|----------|--------------|----------------|---|
| PSEUN060200 | 60 x 200 | PSE-A        | <b>514,100</b> | 20  |


## **NEW** PSE-C

Aluminium profile for side mounting



METAL



| CODE       | SIZE               | €/100            |  |
|------------|--------------------|------------------|---|
| PSEC410125 | 41 x 41 - L.125mm  | <b>418,820</b>   | 20  |
| PSEC410200 | 41 x 41 - L.200mm  | <b>589,513</b>   | 20  |
| PSEC411250 | 41 x 41 - L.1250mm | <b>2.902,063</b> | 2   |
| PSEC411875 | 41 x 41 - L.1875mm | <b>4.166,273</b> | 2   |
| PSEC412500 | 41 x 41 - L.2500mm | <b>5.572,777</b> | 2   |
| PSEC413625 | 41 x 41 - L.3625mm | <b>7.786,350</b> | 2   |

## **NEW** PSE-CUN

Aluminium connector for PSE-C profile



METAL



| CODE      | SIZE   | €/100          |  |
|-----------|--------|----------------|---|
| PSECUN200 | 200 mm | <b>404,947</b> | 10  |

# ISF-CC

Connectors + Accessories for the solar structures assembly

## KFS-FI

Cross connector for bottom fixing.  
Stainless steel A2



METAL



| CODE     | SIZE | €/100          |  |  |
|----------|------|----------------|---|---|
| KFSFIM08 | M8   | <b>165,977</b> | 100   | 900   |

## KFS-FL

Cross connector for lateral fixing.  
Stainless steel A2



METAL





| CODE     | SIZE | €/100          |  |  |
|----------|------|----------------|---|---|
| KFSFLM08 | M8   | <b>294,530</b> | 10  | 80  |

Connectors + Accessories for the solar structures assembly

# ISF-CC

METAL



| CODE     | SIZE | €/100   |  |  |
|----------|------|---------|---|---|
| TURXA208 | M8   | 141,600 | 50  | 300   |

## TU-RX A2

INDEXTRUT quick nut. Stainless steel A2



METAL



| CODE       | SIZE    | €/100  |  |  |
|------------|---------|--------|---|---|
| D603I08016 | M8 x 16 | 42,047 | 200   | 2.400   |

## DIN-603 A2


Screw DIN-603. Round head screw with square neck. Stainless steel A2



Available in different coatings. Ask for price and delivery time.

METAL



| CODE       | SIZE    | €/100   | INSTALLATION KEY |  |  |
|------------|---------|---------|------------------|---|---|
| 6921I08020 | M8 x 20 | 50,523  | 13               | 200   | 2.400   |
| 6921I08050 | M8 x 50 | 80,817  | 13               | 100   | 600   |
| 6921I08070 | M8 x 70 | 117,303 | 13               | 100   | 600   |



## DIN-6921 A2

Screw DIN-6921. Hexagonal flanged bolt with serration. Stainless steel A2



METAL



| CODE      | SIZE | €/100  | INSTALLATION KEY |  |  |
|-----------|------|--------|------------------|---|---|
| D6923IM08 | M8   | 24,660 | 13               | 250   | 3.000   |
| D6923IM10 | M10  | 47,753 | 15               | 250   | 3.000   |
| D6923IM12 | M12  | 70,740 | 18               | 250   | 1.500   |



## DIN-6923 A2

DIN-6923 Hexagonal flange nut with serration. Stainless steel A2



METAL



| CODE     | SIZE | €/100  |  |  |
|----------|------|--------|---|---|
| D127IM08 | M8   | 4,530  | 200   | 9.000   |
| D127IM10 | M10  | 7,237  | 100   | 4.500   |
| D127IM12 | M12  | 10,923 | 100   | 4.500   |

## DIN-127 A2

Grower spring washer DIN-127. Stainless steel A2



# ISF-TR

Triangular structures for the solar panels installation


## TPA-R

Pre-assembled and adjustable aluminium triangle



METAL



| CODE       | SIZE                     | SUITABLE FOR | €/PC          |  |
|------------|--------------------------|--------------|---------------|---|
| TPAR251500 | 25° / 30° / 35° - L.1500 | PSE-A        | <b>57,737</b> | 4   |


## TPA-P

Strut profile for pre-assembled aluminium triangle



METAL



| CODE       | SIZE             | €/100            |  |
|------------|------------------|------------------|---|
| TPAP352000 | 35 x 35 - L.2000 | <b>1.535,633</b> | 2   |

## TRP-XS

Pre-assembled and adjustable triangle INDEXTRUT. Steel with Atlantis C4-M coating



METAL



| CODE        | SIZE             | SUITABLE FOR | €/PC          |  |
|-------------|------------------|--------------|---------------|---|
| TRPXS412515 | 25°-35° - L.1500 | GP-XS        | <b>56,582</b> | 4   |



## NU-XS

Articulated joint INDEXTRUT. Steel with Atlantis C4-M coating



METAL





| CODE      | SIZE | SUITABLE FOR | €/100          |  |  |
|-----------|------|--------------|----------------|---|---|
| NUXSM0841 | M8   | GP-XS        | <b>732,827</b> | 10  | 100   |



Adjustable studs for the installation of solar panels

# ISF-KFS




| CODE                  | SIZE     | €/100            | INSTALLATION KEY |  |  |
|-----------------------|----------|------------------|------------------|---|---|
| KFSMA10200            | 10 x 200 | <b>555,310</b>   | 7                | 25  | 150   |
| KFSMA10250            | 10 x 250 | <b>626,317</b>   | 7                | 25  | 150   |
| KFSMA12300 <b>NEW</b> | 12 x 300 | <b>1.214,187</b> | 9                | 25  | 75  |
| KFSMA12350 <b>NEW</b> | 12 x 350 | <b>1.321,193</b> | 9                | 25  | 75  |

## KFS-MA

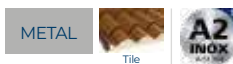
Double threaded stud. Stainless steel A2





| CODE       | SIZE     | €/100            | INSTALLATION KEY |  |  |
|------------|----------|------------------|------------------|---|---|
| KFSAU10160 | 10 x 160 | <b>2.496,347</b> | 13               | 25  | 150   |
| KFSAU10200 | 10 x 200 | <b>2.896,505</b> | 13               | 25  | 75  |

## KFS-AU

Self-tapping screw. Stainless steel A2



| CODE       | SIZE     | €/100            | INSTALLATION KEY |  |  |
|------------|----------|------------------|------------------|---|---|
| KFSRV10250 | 10 x 250 | <b>626,317</b>   | 7                | 25  | 150   |
| KFSRV12350 | 12 x 350 | <b>1.228,876</b> | 9                | 25  | 75  |

## KFS-RV

Threaded rod for chemical anchor installation. Stainless steel A2



# ISF-FR

Adjustable accessories for solar panels installation

## GS-TC

Adjustable roof hook for curved roof tile. Stainless steel A2



METAL



| CODE       | SIZE     | €/100            |  |
|------------|----------|------------------|---|
| GSTC040080 | 40 - 80  | <b>2.659,303</b> | 20  |
| GSTC080120 | 80 - 120 | <b>2.709,631</b> | 20  |

## GS-TU

Adjustable roof hook for universal roof tile. Stainless steel A2



METAL



| CODE       | SIZE    | €/100            |  |
|------------|---------|------------------|---|
| GSTU040055 | 40 - 55 | <b>2.872,957</b> | 20  |

## STR

Adjustable support for trapezoidal roof. Stainless steel A2



METAL



| CODE    | SIZE    | €/100            |  |
|---------|---------|------------------|---|
| STR1680 | 16 - 80 | <b>1.944,180</b> | 40  |



## PMO

Plate for double threaded screw. Stainless steel A2



METAL



| CODE    | SIZE     | €/100          |  |  |
|---------|----------|----------------|---|---|
| PMO1012 | M10 -M12 | <b>263,027</b> | 25  | 300   |


## **NEW** PMO-L

Aluminium L-shaped plate for lateral fixing. Suitable for PSE-C profile



METAL




| CODE     | SIZE     | €/100          | MIN. ORDER QTY. |  |
|----------|----------|----------------|-----------------|---|
| PMOL1012 | M10 -M12 | <b>156,117</b> | -               | 25  |

Adjustable accessories for solar panels installation

ISF-FR

CHEMICAL



| CODE      | SIZE     | €/100   | MIN. ORDER QTY. |  |
|-----------|----------|---------|-----------------|--|
| MOTL16330 | 16 x 330 | 312,333 | -               | 10   |

MO-TL **NEW**

Long cut-out sieve for fixing on tile roof + scraper



CHEMICAL



| CODE    | SIZE   | €/PC  | MIN. ORDER QTY. |  |
|---------|--------|-------|-----------------|--|
| MOPC185 | 185 mm | 4,587 | -               | 1  |

MO-PC **NEW**

Nozzle extender for chemical fixings





Direct fixing accessories for solar panels installation

ISF-FD

METAL



| CODE       | SIZE         | €/100  | N° RECESS |  |  |
|------------|--------------|--------|-----------|---|---|
| TACN165525 | 5,5 x 25 P16 | 41,087 | 8         | 500   | 2.000   |

TAC + ARVUL

Atlantis C4-M thin sheet screw + vulcanised EPDM washer



METAL



| CODE       | SIZE       | €/100  | N° RECESS |  |  |
|------------|------------|--------|-----------|---|---|
| TACB166025 | 6 x 25 P16 | 99,783 | 8         | 500   | 2.000   |

TAC BIMETAL+ARVUL A2

Bi-metal thin sheet screw + vulcanised EPDM-stainless steel A2 washer



METAL



| CODE        | SIZE           | €/100  |  |  |
|-------------|----------------|--------|---|---|
| AUENI166325 | 6,25 x 25 P-16 | 38,000 | 500   | 2.000   |

AUE NI + ARVUL **NEW**

Atlantis C4-M self-tapping screw + EPDM-stainless steel vulcanised washer A2



# ISF-FD

Direct fixing accessories for solar panels installation



## **NEW** DIN-7504-K RE NI + ARVUL

Atlantis C4-M reduced point self-drilling screw + Vulcanised EPDM-stainless steel washer A2



METAL



| CODE       | SIZE           | €/100         |  |  |  |
|------------|----------------|---------------|---|---|---|
| AREN166325 | 6,25 x 25 P-16 | <b>32,300</b> | 8   | 500   | 3.000   |



## RE-TE

Watertight trebol rivet + vulcanised EPDM steel washer



METAL



| CODE     | SIZE     | €/100         | DRILL Ø |  |  |
|----------|----------|---------------|---------|---|---|
| RETE5220 | 5,2 x 20 | <b>99,830</b> | 5,3     | 250   | 3.000   |

# ISF-ES

Sealing accessories for solar panel installation



## ARS-P

Stainless steel A2 umbrella washer + EPDM



METAL



| CODE   | SIZE | €/100         |  |  |
|--------|------|---------------|---|---|
| ARSP08 | M8   | <b>51,876</b> | 100   | 1.200   |
| ARSP10 | M10  | <b>51,876</b> | 100   | 1.200   |



## ARS-S

Washer for double threaded bolt



METAL



| CODE   | SIZE | €/100         |  |  |
|--------|------|---------------|---|---|
| ARSS10 | M10  | <b>25,678</b> | 100   | 1.200   |
| ARSS12 | M12  | <b>25,678</b> | 100   | 1.200   |

## CS-B

Butylene adhesive sealing tape



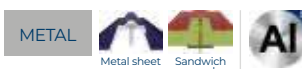
METAL




| CODE       | SIZE          | €/PC          |  |  |
|------------|---------------|---------------|---|---|
| CSB0104010 | 40 x 1 - L.10 | <b>20,623</b> | 1   | 27  |
| CSB0108010 | 80 x 1 - L.10 | <b>40,300</b> | 1   | 18  |

Kits for solar installations

# ISF-KT




| CODE                 | SIZE                | €/PC    |  |
|----------------------|---------------------|---------|--|
| KCP5A0235            | x2 (35 mm) - ORIGEN | 190,373 | 1  |
| KCP5A0240            | x2 (40 mm) - ORIGEN | 190,373 | 1  |
| KCP5A0335            | x3 (35 mm) - ORIGEN | 264,587 | 1  |
| KCP5A0340            | x3 (40 mm) - ORIGEN | 264,587 | 1  |
| KCP5A0230 <b>NEW</b> | x2 (30 mm) - ORIGEN | 190,373 | 1  |
| KCP5A0330 <b>NEW</b> | x3 (30 mm) - ORIGEN | 264,587 | 1  |
| KCP5A03AM <b>NEW</b> | x3 - AMPLIACION     | 254,907 | 1  |
| KCP5A02AM <b>NEW</b> | x2 - AMPLIACION     | 182,307 | 1  |

## KC-PSA

Coplanar with winged aluminum profile (PSA-A). Direct fixing





| CODE      | SIZE                | €/PC   |  |
|-----------|---------------------|--------|--|
| KCP5D0135 | x1 (35 mm) - ORIGEN | 85,378 | 1  |
| KCP5D0140 | x1 (40 mm) - ORIGEN | 85,378 | 1  |
| KCP5D01AM | x1 - AMPLIACION     | 42,689 | 1  |
| KCP5D0130 | x1 (30 mm) - ORIGEN | 85,378 | 1  |

## KC-PSD

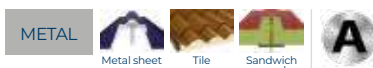
Coplanar with winged aluminum profile (PSA-A). Direct fixing. Discontinuous profile format




| CODE      | SIZE                | €/PC    |  |  |
|-----------|---------------------|---------|---|---|
| KCP5C0235 | x2 (35 mm) - ORIGEN | 183,920 | 1   | -   |
| KCP5C02AM | x2 - AMPLIACION     | 172,498 | 1   | -   |
| KCP5C0240 | x2 (40 mm) - ORIGEN | 183,920 | 1   | -   |
| KCP5C0335 | x3 (35 mm) - ORIGEN | 250,760 | 1   | -   |
| KCP5C0340 | x3 (40 mm) - ORIGEN | 250,760 | 1   | -   |
| KCP5C0330 | x3 (30 mm) - ORIGEN | 250,760 | 1   | -   |
| KCP5C0230 | x2 (30 mm) - ORIGEN | 183,920 | 1   | -   |
| KCP5C03AM | x3 - AMPLIACION     | 240,387 | 1   | -   |

## KC-PSC **NEW**

Coplanar with aluminium profile PSE-C. Lateral assembled fastening



| CODE                 | SIZE                | €/PC    |  |
|----------------------|---------------------|---------|--|
| KCGPX0235            | x2 (35 mm) - ORIGEN | 154,000 | 1  |
| KCGPX0240            | x2 (40 mm) - ORIGEN | 154,000 | 1  |
| KCGPX0335            | x3 (35 mm) - ORIGEN | 210,540 | 1  |
| KCGPX0340            | x3 (40 mm) - ORIGEN | 210,540 | 1  |
| KCGPX0330 <b>NEW</b> | x3 (30 mm) - ORIGEN | 210,540 | 1  |
| KCGPX03AM <b>NEW</b> | x3 - AMPLIACION     | 205,333 | 1  |
| KCGPX0230 <b>NEW</b> | x2 (30 mm) - ORIGEN | 154,000 | 1  |
| KCGPX02AM <b>NEW</b> | x2 - AMPLIACION     | 148,830 | 1  |

## KC-GPX

Coplanar with perforated steel channel Atlantis C4-M INDEXTRUT SOLAR GP-XS



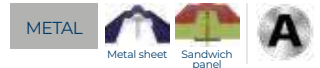



# ISF-KT

Kits for solar installations

## KC-GPD

Coplanar with perforated steel channel Atlantis C4-M. Discontinuous channel format




| CODE      | SIZE                | €/PC          |  |
|-----------|---------------------|---------------|---|
| KCGPD0135 | x1 (35 mm) - ORIGEN | <b>52,250</b> | 1   |
| KCGPD0140 | x1 (40 mm) - ORIGEN | <b>52,250</b> | 1   |
| KCGPD01AM | x1 - AMPLIACION     | <b>24,384</b> | 1   |
| KCGPD0130 | x1 (30 mm) - ORIGEN | <b>52,250</b> | 1   |

## KT-PSE

Triangular with PSE-A aluminium profile. Assembled fixing




| CODE      | SIZE                | €/PC           |  |
|-----------|---------------------|----------------|---|
| KTPSE0235 | x2 (35 mm) - ORIGEN | <b>380,747</b> | 1   |
| KTPSE0240 | x2 (40 mm) - ORIGEN | <b>380,747</b> | 1   |
| KTPSE0335 | x3 (35 mm) - ORIGEN | <b>542,080</b> | 1   |
| KTPSE0340 | x3 (40 mm) - ORIGEN | <b>542,080</b> | 1   |
| KTPSE0330 | x3 (30 mm) - ORIGEN | <b>542,080</b> | 1   |
| KTPSE03AM | x3 - AMPLIACION     | <b>529,173</b> | 1   |
| KTPSE0230 | x2 (30 mm) - ORIGEN | <b>380,747</b> | 1   |
| KTPSE02AM | x2 - AMPLIACION     | <b>375,907</b> | 1   |

## KT-GPX

Triangular with perforated steel channel Atlantis C4-M INDEXTRUT SOLAR GP-XS



| CODE      | SIZE                | €/PC           |  |
|-----------|---------------------|----------------|---|
| KTGPX0235 | x2 (35 mm) - ORIGEN | <b>285,450</b> | 1   |
| KTGPX0240 | x2 (40 mm) - ORIGEN | <b>285,450</b> | 1   |
| KTGPX0335 | x3 (35 mm) - ORIGEN | <b>409,200</b> | 1   |
| KTGPX0340 | x3 (40 mm) - ORIGEN | <b>409,200</b> | 1   |
| KTGPX0230 | x2 (30 mm) - ORIGEN | <b>285,450</b> | 1   |
| KTGPX02AM | x2 - AMPLIACION     | <b>277,200</b> | 1   |
| KTGPX03AM | x3 - AMPLIACION     | <b>402,600</b> | 1   |
| KTGPX0330 | x3 (30 mm) - ORIGEN | <b>409,200</b> | 1   |



# QUICK BEAM ATTACHMENT SYSTEM



# SU

## Quick beam attachment system

### SU-MO



Beam clamp



Technical info

METAL



| CODE    | SIZE        | €/100          | MAX. BEAM WIDTH |  |  |
|---------|-------------|----------------|-----------------|---|---|
| SUMOP09 | PASANTE Ø9  | <b>370,423</b> | 20              | 50  | 200   |
| SUMOP11 | PASANTE Ø11 | <b>407,273</b> | 20              | 50  | 150   |
| SUMOP13 | PASANTE Ø13 | <b>619,903</b> | 25              | 50  | 100   |
| SUMOM06 | ROSCADO M6  | <b>317,863</b> | 20              | 50  | 200   |
| SUMOM08 | ROSCADO M8  | <b>370,423</b> | 20              | 50  | 200   |
| SUMOM10 | ROSCADO M10 | <b>407,273</b> | 20              | 50  | 150   |
| SUMOM12 | ROSCADO M12 | <b>619,903</b> | 25              | 50  | -   |

### SU-CL



Suspension clip



Technical info

METAL



| CODE   | SIZE | €/100         | MIN. BEAM LENGTH | BEAM THICKNESS |  |  |
|--------|------|---------------|------------------|----------------|---|---|
| SUCL02 | 6.3  | <b>36,647</b> | 14               | 1,5 - 4        | 100   | 1.200   |
| SUCL04 | 6.3  | <b>52,417</b> | 23               | 4 - 10         | 100   | 400   |
| SUCL10 | 6.3  | <b>61,047</b> | 23               | 10 - 15        | 100   | 300   |
| SUCL15 | 6.3  | <b>81,393</b> | 23               | 15 - 20        | 100   | 300   |

### SU-VA



Rod clip



Technical info

METAL



| CODE     | SIZE | €/100          | MIN. BEAM LENGTH | BEAM THICKNESS |  |  |
|----------|------|----------------|------------------|----------------|---|---|
| SUVA0602 | M6   | <b>94,090</b>  | 14               | 1,5 - 4        | 100   | 300   |
| SUVA0604 | M6   | <b>114,617</b> | 23               | 4 - 10         | 100   | 200   |
| SUVA0610 | M6   | <b>168,600</b> | 23               | 10 - 15        | 100   | -   |
| SUVA0615 | M6   | <b>203,490</b> | 23               | 15 - 20        | 100   | -   |
| SUVA0802 | M8   | <b>94,090</b>  | 14               | 1,5 - 4        | 100   | 300   |
| SUVA0804 | M8   | <b>114,617</b> | 23               | 4 - 10         | 100   | 200   |
| SUVA0810 | M8   | <b>168,600</b> | 23               | 10 - 15        | 100   | 200   |
| SUVA0815 | M8   | <b>203,490</b> | 23               | 15 - 20        | 100   | -   |

Quick beam attachment system



SU

 Technical info  
P. 433



SU-CU

Holder clip

| CODE     | SIZE | €/100          | BEAM THICKNESS |  |  |
|----------|------|----------------|----------------|---|---|
| SUCU0602 | M6   | <b>94,510</b>  | 1,5 - 5        | 100   | 300   |
| SUCU0605 | M6   | <b>105,040</b> | 5 - 7          | 100   | 300   |
| SUCU0606 | M6   | <b>131,493</b> | 3 - 7          | 100   | 200   |
| SUCU0607 | M6   | <b>154,990</b> | 7 - 10         | 100   | 200   |





 Technical info  
P. 433



SU-AB

Beam clip for clamp

| CODE     | SIZE | €/100         | SCREW SIZE | THICKNESS MAX. FIXTURE | MAX. BEAM WIDTH |  |  |
|----------|------|---------------|------------|------------------------|-----------------|--|---|
| SUAB0603 | M6   | <b>89,323</b> | M6 x 9     | 3 - 7                  | 3 - 7           | 100  | 300   |
| SUAB0607 | M6   | <b>89,680</b> | M6 x 9     | 7 - 13                 | 7 - 13          | 100  | 200   |
| SUAB0614 | M6   | <b>93,437</b> | M6 x 9     | 14 - 20                | 14 - 20         | 100  | 200   |





 Technical info  
P. 433



SU-CA

Beam clip for cable

| CODE     | SIZE  | €/100         | THICKNESS MAX. FIXTURE |  |  |
|----------|-------|---------------|------------------------|---|---|
| SUCA0602 | 6-7   | <b>30,887</b> | 1 - 4                  | 100   | 2.400   |
| SUCA0604 | 6-7   | <b>31,600</b> | 4 - 7,5                | 100   | 1.200   |
| SUCA0607 | 6-7   | <b>32,087</b> | 7,5 - 12               | 100   | 1.200   |
| SUCA0802 | 8-9   | <b>32,193</b> | 1 - 4                  | 100   | 1.200   |
| SUCA0804 | 8-9   | <b>32,687</b> | 4 - 7,5                | 100   | 1.200   |
| SUCA0807 | 8-9   | <b>33,100</b> | 7,5 - 12               | 100   | 1.200   |
| SUCA1002 | 10-11 | <b>32,837</b> | 1 - 4                  | 100   | 1.200   |
| SUCA1004 | 10-11 | <b>33,347</b> | 4 - 7,5                | 100   | 1.200   |
| SUCA1007 | 10-11 | <b>33,787</b> | 7,5 - 12               | 100   | 1.200   |
| SUCA1202 | 12-14 | <b>33,617</b> | 1 - 4                  | 100   | 1.200   |
| SUCA1204 | 12-14 | <b>34,107</b> | 4 - 7,5                | 100   | 1.200   |
| SUCA1207 | 12-14 | <b>34,233</b> | 7,5 - 12               | 100   | 1.200   |
| SUCA1502 | 15-18 | <b>34,350</b> | 1 - 4                  | 100   | 1.200   |
| SUCA1504 | 15-18 | <b>35,087</b> | 4 - 7,5                | 100   | 1.200   |
| SUCA1507 | 15-18 | <b>35,227</b> | 7,5 - 12               | 100   | 1.200   |
| SUCA1902 | 19-24 | <b>35,147</b> | 1 - 4                  | 100   | 1.200   |
| SUCA1904 | 19-24 | <b>42,590</b> | 4 - 7,5                | 100   | 600   |
| SUCA1907 | 19-24 | <b>43,413</b> | 7,5 - 12               | 100   | 600   |
| SUCA2502 | 25-30 | <b>43,777</b> | 1 - 4                  | 100   | 600   |
| SUCA2504 | 25-30 | <b>48,833</b> | 4 - 7,5                | 100   | 600   |
| SUCA2507 | 25-30 | <b>53,470</b> | 7,5 - 12               | 100   | 600   |









# THREADED ROD AND FIXING ACCESSORIES





# RV

## Threaded rod

### RV-ZN

Zinc-plated. 1 meter

METAL



| CODE    | SIZE       | €/100     | LENGTH | PITCH |     |
|---------|------------|-----------|--------|-------|-----|
| 975ZM04 | M4 x 1000  | 94,263    | 1.000  | 0.7   | 100 |
| 975ZM05 | M5 x 1000  | 125,683   | 1.000  | 0.8   | 100 |
| 975ZM06 | M6 x 1000  | 122,890   | 1.000  | 1     | 100 |
| 975ZM08 | M8 x 1000  | 214,783   | 1.000  | 1.25  | 50  |
| 975ZM10 | M10 x 1000 | 323,700   | 1.000  | 1.5   | 25  |
| 975ZM12 | M12 x 1000 | 502,837   | 1.000  | 1.75  | 20  |
| 975ZM14 | M14 x 1000 | 690,837   | 1.000  | 2     | 10  |
| 975ZM16 | M16 x 1000 | 884,393   | 1.000  | 2     | 10  |
| 975ZM18 | M18 x 1000 | 1.241,280 | 1.000  | 2.5   | 10  |
| 975ZM20 | M20 x 1000 | 1.576,747 | 1.000  | 2.5   | 5   |
| 975ZM22 | M22 x 1000 | 2.129,027 | 1.000  | 2.5   | 5   |
| 975ZM24 | M24 x 1000 | 2.248,883 | 1.000  | 3     | 5   |
| 975ZM27 | M27 x 1000 | 2.597,580 | 1.000  | 3     | 5   |
| 975ZM30 | M30 x 1000 | 3.432,750 | 1.000  | 3.5   | 5   |
| 975ZM33 | M33 x 1000 | 4.224,123 | 1.000  | 3.5   | 3   |
| 975ZM36 | M36 x 1000 | 4.994,527 | 1.000  | 4     | 3   |

### RV-ZN 8.8

8.8, zinc-plated

METAL



| CODE     | SIZE       | €/100     | LENGTH | PITCH |     |
|----------|------------|-----------|--------|-------|-----|
| 9758ZM05 | M5 x 1000  | 169,670   | 1.000  | 0.8   | 100 |
| 9758ZM06 | M6 x 1000  | 174,513   | 1.000  | 1     | 100 |
| 9758ZM08 | M8 x 1000  | 300,693   | 1.000  | 1.25  | 50  |
| 9758ZM10 | M10 x 1000 | 453,180   | 1.000  | 1.5   | 25  |
| 9758ZM12 | M12 x 1000 | 678,830   | 1.000  | 1.75  | 20  |
| 9758ZM14 | M14 x 1000 | 932,633   | 1.000  | 2     | 10  |
| 9758ZM16 | M16 x 1000 | 1.149,710 | 1.000  | 2     | 10  |
| 9758ZM18 | M18 x 1000 | 1.588,833 | 1.000  | 2.5   | 5   |
| 9758ZM20 | M20 x 1000 | 1.986,700 | 1.000  | 2.5   | 5   |
| 9758ZM22 | M22 x 1000 | 2.682,567 | 1.000  | 2.5   | 5   |
| 9758ZM24 | M24 x 1000 | 2.811,107 | 1.000  | 3     | 5   |
| 9758ZM27 | M27 x 1000 | 3.221,003 | 1.000  | 3     | 5   |
| 9758ZM30 | M30 x 1000 | 4.187,950 | 1.000  | 3.5   | 5   |
| 9758ZM33 | M33 x 1000 | 5.068,950 | 1.000  | 3.5   | 3   |
| 9758ZM36 | M36 x 1000 | 5.993,437 | 1.000  | 4     | 3   |

### RV-A2

A2 Stainless steel. 1 meter

STAINLESS STEEL



| CODE     | SIZE       | €/100      | LENGTH | PITCH |   |
|----------|------------|------------|--------|-------|---|
| 975A2M04 | M4 x 1000  | 331,050    | 1.000  | 0.7   | 1 |
| 975A2M05 | M5 x 1000  | 390,363    | 1.000  | 0.8   | 1 |
| 975A2M06 | M6 x 1000  | 538,960    | 1.000  | 1     | 1 |
| 975A2M08 | M8 x 1000  | 874,627    | 1.000  | 1.25  | 1 |
| 975A2M10 | M10 x 1000 | 1.267,020  | 1.000  | 1.5   | 1 |
| 975A2M12 | M12 x 1000 | 1.928,897  | 1.000  | 1.75  | 1 |
| 975A2M14 | M14 x 1000 | 3.377,737  | 1.000  | 2     | 1 |
| 975A2M16 | M16 x 1000 | 3.900,350  | 1.000  | 2     | 1 |
| 975A2M18 | M18 x 1000 | 4.254,923  | 1.000  | 2.5   | 1 |
| 975A2M20 | M20 x 1000 | 5.871,797  | 1.000  | 2.5   | 1 |
| 975A2M22 | M22 x 1000 | 6.863,907  | 1.000  | 2.5   | 1 |
| 975A2M24 | M24 x 1000 | 9.265,300  | 1.000  | 3     | 1 |
| 975A2M27 | M27 x 1000 | 11.166,597 | 1.000  | 3     | 1 |
| 975A2M30 | M30 x 1000 | 17.378,990 | 1.000  | 3.5   | 1 |
| 975A2M33 | M33 x 1000 | 21.818,293 | 1.000  | 3.5   | 1 |
| 975A2M36 | M36 x 1000 | 25.094,577 | 1.000  | 4     | 1 |

Threaded rod

RV

METAL



RV-2M

Zinc-plated. 2 meters

| CODE      | SIZE       | €/100   | LENGTH | PITCH |  |
|-----------|------------|---------|--------|-------|---|
| 975ZM2M06 | M6 x 2.000 | 245,780 | 2.000  | 1     | 50  |





Small threaded bolt

VR-SE

METAL



| CODE      | SIZE     | €/100  |  |  |
|-----------|----------|--------|---|---|
| VRSE06020 | M6 x 20  | 11,407 | 200   | 4,800   |
| VRSE06030 | M6 x 30  | 16,040 | 200   | 4,800   |
| VRSE08020 | M8 x 20  | 14,917 | 200   | 3,200   |
| VRSE08030 | M8 x 30  | 19,980 | 200   | 2,400   |
| VRSE10030 | M10 x 30 | 29,337 | 200   | 2,400   |
| VRSE12030 | M12 x 35 | 60,137 | 100   | 800   |



 Self-service

| CODE        | SIZE    | €/BAG | PCS  | BAGS  |
|-------------|---------|-------|---|--|
| LSVRSE06030 | M6 x 30 | 6,242 | 30  | 8  |

Coupling nut



MA

METAL



MA-HE

Hexagonal


| CODE    | SIZE     | €/100   | LENGTH |  |  |
|---------|----------|---------|--------|---|---|
| MAE0620 | M6 x 20  | 17,103  | 20     | 200   | 2,400   |
| MAE0630 | M6 x 30  | 23,073  | 30     | 200   | 1,600   |
| MAE0825 | M8 x 25  | 18,687  | 25     | 200   | 1,600   |
| MAE1030 | M10 x 30 | 24,873  | 30     | 150   | 900   |
| MAE1235 | M12 x 35 | 58,037  | 35     | 100   | 600   |
| MAE1650 | M16 x 50 | 178,980 | 50     | 50  | 100   |
| MAE2060 | M20 x 60 | 488,613 | 60     | 25  | -   |



 Blister

| CODE      | SIZE     | €/BAG | PCS  | BAGS  |
|-----------|----------|-------|---|--|
| BZMAE0630 | M6 x 30  | 2,302 | 6   | 15   |
| BZMAE0825 | M8 x 25  | 2,302 | 6   | 15   |
| BZMAE1030 | M10 x 30 | 2,302 | 4   | 15   |

 Window box

| CODE     | SIZE     | €/BOX | PCS  | BOXES  |
|----------|----------|-------|---|---|
| VMAE0630 | M6 x 30  | 6,771 | 20  | 8   |
| VMAE0825 | M8 x 25  | 5,463 | 20  | 8   |
| VMAE1030 | M10 x 30 | 5,729 | 15  | 8   |

 Self-service

| CODE      | SIZE     | €/BAG  | PCS  | BAGS  |
|-----------|----------|--------|---|--|
| LSMAE0630 | M6 x 30  | 11,510 | 40  | 6  |
| LSMAE0825 | M8 x 25  | 7,031  | 30  | 5  |
| LSMAE1030 | M10 x 30 | 6,237  | 20  | 6  |



# MA

## Coupling nut

### MA-RE

METAL



Round



| CODE    | SIZE       | €/100          | LENGTH |     |       |
|---------|------------|----------------|--------|-----|-------|
| MAR5322 | 5/32W x 20 | <b>20,387</b>  | 20     | 200 | 4.800 |
| MAR0420 | M4 x 20    | <b>13,683</b>  | 20     | 200 | 4.800 |
| MAR0620 | M6 x 20    | <b>14,437</b>  | 20     | 200 | 2.400 |
| MAR0630 | M6 x 30    | <b>21,443</b>  | 30     | 200 | 1.600 |
| MAR0825 | M8 x 25    | <b>17,897</b>  | 25     | 200 | 2.400 |
| MAR0830 | M8 x 30    | <b>22,190</b>  | 30     | 200 | 1.600 |
| MAR1030 | M10 x 30   | <b>23,687</b>  | 30     | 150 | 900   |
| MAR1235 | M12 x 35   | <b>40,020</b>  | 35     | 100 | 600   |
| MAR1650 | M16 x 50   | <b>142,833</b> | 50     | 50  | 300   |

#### Window box

| CODE     | SIZE     | €/BOX        | PCS | BOXES |
|----------|----------|--------------|-----|-------|
| VMAR0420 | M4 x 20  | <b>5,218</b> | 25  | 8     |
| VMAR0630 | M6 x 30  | <b>6,546</b> | 20  | 8     |
| VMAR0830 | M8 x 30  | <b>6,776</b> | 20  | 8     |
| VMAR1030 | M10 x 30 | <b>5,465</b> | 15  | 8     |

#### Self-service

| CODE      | SIZE     | €/BAG         | PCS | BAGS |
|-----------|----------|---------------|-----|------|
| LSMAR0420 | M4 x 20  | <b>7,163</b>  | 40  | 8    |
| LSMAR0630 | M6 x 30  | <b>11,237</b> | 40  | 7    |
| LSMAR0830 | M8 x 30  | <b>10,177</b> | 35  | 5    |
| LSMAR1030 | M10 x 30 | <b>6,261</b>  | 20  | 6    |

### MA-RI

STAINLESS STEEL



Round. A2 Stainless steel



| CODE     | SIZE     | €/100          | LENGTH |     |
|----------|----------|----------------|--------|-----|
| MARI0830 | M8 x 30  | <b>194,450</b> | 30     | 100 |
| MARI1030 | M10 x 30 | <b>267,700</b> | 30     | 100 |

### MA-MH

METAL



Spacer nut Male/Female



| CODE     | SIZE    | €/100         | LENGTH |     |       |
|----------|---------|---------------|--------|-----|-------|
| MAMH0610 | M6 x 10 | <b>38,457</b> | 10     | 100 | 3.000 |
| MAMH0620 | M6 x 20 | <b>47,290</b> | 20     | 100 | 1.200 |
| MAMH0630 | M6 x 30 | <b>74,577</b> | 30     | 100 | 1.200 |
| MAMH0640 | M6 x 40 | <b>84,817</b> | 40     | 100 | 1.000 |
| MAMH0650 | M6 x 50 | <b>94,830</b> | 50     | 50  | 1.000 |

# AR-FO

## Forged eye bolt

METAL



| CODE     | SIZE     | €/100          | THREAD LENGHT | EYE BOLT Ø |     |       |
|----------|----------|----------------|---------------|------------|-----|-------|
| ARFOM6Z  | M6 x 55  | <b>79,283</b>  | 55            | 10         | 100 | 1.200 |
| ARFOM8Z  | M8 x 60  | <b>106,290</b> | 60            | 11.8       | 100 | 600   |
| ARFOM10Z | M10 x 73 | <b>149,920</b> | 73            | 14.5       | 50  | 300   |
| ARFOM12Z | M12 x 90 | <b>289,443</b> | 90            | 17         | 50  | 200   |
| ARFOM16Z | M16 x 95 | <b>652,090</b> | 95            | 23.5       | 25  | 50    |



Forged hook bolt

GA-FO

METAL



| CODE     | SIZE     | €/100          | LENGTH | THREAD LENGTH | APERTURE HOOK |     |       |
|----------|----------|----------------|--------|---------------|---------------|-----|-------|
| GAFOM06Z | M6 x 55  | <b>76,927</b>  | 82     | 55            | 8             | 100 | 1.200 |
| GAFOM08Z | M8 x 60  | <b>126,527</b> | 98     | 60            | 10            | 100 | 600   |
| GAFOM10Z | M10 x 73 | <b>207,133</b> | 117    | 73            | 12.5          | 50  | 300   |
| GAFOM12Z | M12 x 90 | <b>359,537</b> | 146    | 90            | 16            | 50  | 100   |
| GAFOM16Z | M16 x 95 | <b>714,527</b> | 170    | 95            | 19            | 25  | 50    |



Hook spiral

GE-SP

METAL



| CODE      | SIZE     | €/100          | THREAD LENGTH |    |     |
|-----------|----------|----------------|---------------|----|-----|
| GESPM08ZE | M8 x 60  | <b>125,370</b> | 65            | 25 | 300 |
| GESPM10ZE | M10 x 73 | <b>139,343</b> | 78            | 15 | 90  |



Threaded screw clamp and staple

TAG



SANITATION



AB-TA

Zinc-plated. Slotted

| CODE     | SIZE     | €/100         |     |       |
|----------|----------|---------------|-----|-------|
| ABTA0630 | M6 x 30  | <b>4,593</b>  | 100 | 4.500 |
| ABTA0640 | M6 x 40  | <b>5,513</b>  | 100 | 2.400 |
| ABTA0650 | M6 x 50  | <b>6,230</b>  | 100 | 2.400 |
| ABTA0730 | M7 x 30  | <b>4,470</b>  | 100 | 2.400 |
| ABTA0740 | M7 x 40  | <b>5,513</b>  | 100 | 2.400 |
| ABTA0750 | M7 x 50  | <b>6,230</b>  | 100 | 2.400 |
| ABTA0760 | M7 x 60  | <b>10,783</b> | 100 | 1.200 |
| ABTA0770 | M7 x 70  | <b>14,207</b> | 100 | 1.200 |
| ABTA0780 | M7 x 80  | <b>15,610</b> | 100 | 1.200 |
| ABTA0840 | M8 x 40  | <b>7,660</b>  | 100 | 2.400 |
| ABTA0860 | M8 x 60  | <b>10,210</b> | 100 | 1.200 |
| ABTA0880 | M8 x 80  | <b>14,660</b> | 100 | 1.200 |
| ABTA1050 | M10 x 50 | <b>17,167</b> | 100 | 1.200 |
| ABTA1070 | M10 x 70 | <b>21,940</b> | 100 | 800   |
| ABTA1090 | M10 x 90 | <b>27,337</b> | 100 | 600   |

\* Not include slot



Self-service

| CODE       | SIZE    | €/BAG        | PCS | BAGS |
|------------|---------|--------------|-----|------|
| LSABTA0630 | M6 x 30 | <b>2,521</b> | 15  | 10   |
| LSABTA0640 | M6 x 40 | <b>2,677</b> | 15  | 10   |
| LSABTA0650 | M6 x 50 | <b>2,840</b> | 15  | 10   |
| LSABTA0840 | M8 x 40 | <b>3,396</b> | 15  | 10   |
| LSABTA0860 | M8 x 60 | <b>3,718</b> | 15  | 10   |



SANITATION



AB-TA B

Yellow zinc-plated. Slotted

| CODE      | SIZE    | €/100        |     |       |
|-----------|---------|--------------|-----|-------|
| ABTAB0630 | M6 x 30 | <b>4,593</b> | 100 | 4.500 |
| ABTAB0640 | M6 x 40 | <b>5,513</b> | 100 | 2.400 |
| ABTAB0650 | M6 x 50 | <b>6,230</b> | 100 | 2.400 |



Self-service

| CODE        | SIZE    | €/BAG        | PCS | BAGS |
|-------------|---------|--------------|-----|------|
| LSABTAB0630 | M6 x 30 | <b>2,521</b> | 15  | 10   |
| LSABTAB0640 | M6 x 40 | <b>2,677</b> | 15  | 10   |
| LSABTAB0650 | M6 x 50 | <b>2,840</b> | 15  | 10   |



# TAG

Threaded screw clamp and staple

## AB-TA A2

A2 Stainless steel



STAINLESS STEEL



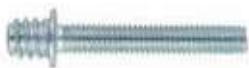
| CODE      | SIZE    | €/100  |     |       |
|-----------|---------|--------|-----|-------|
| ABTA20630 | M6 x 30 | 67,270 | 100 | 2.400 |

## AB-TR

Threaded screw for clamps



SANITATION



| CODE      | SIZE    | €/100  |     |       |
|-----------|---------|--------|-----|-------|
| ABTR05030 | M5 x 30 | 10,307 | 100 | 2.400 |
| ABTR05040 | M5 x 40 | 10,673 | 100 | 2.400 |
| ABTR05050 | M5 x 50 | 11,897 | 100 | 2.400 |
| ABTR05060 | M5 x 60 | 14,093 | 100 | 1.200 |
| ABTR06040 | M6 x 40 | 13,620 | 100 | 2.400 |
| ABTR06050 | M6 x 50 | 16,517 | 100 | 1.200 |
| ABTR06060 | M6 x 60 | 18,970 | 100 | 1.200 |

## AB-PM7

Cilindrical spacer for clamps M7



SANITATION



| CODE    | SIZE | €/100   |    |       |
|---------|------|---------|----|-------|
| ABPM720 | 20   | 107,060 | 50 | 2.250 |
| ABPM730 | 30   | 140,293 | 50 | 2.250 |
| ABPM740 | 40   | 157,990 | 50 | 1.200 |

## AB-TG

Threaded screws for clips



SANITATION



| CODE     | SIZE     | €/100 |     | MIN. ORDER QTY. |     |       |
|----------|----------|-------|-----|-----------------|-----|-------|
| ABTG4530 | 4,5 x 30 | 6,257 | PZ2 | 200             | 100 | 4.500 |
| ABTG4535 | 4,5 x 35 | 6,660 | PZ2 | 200             | 100 | 4.500 |
| ABTG4540 | 4,5 x 40 | 6,937 | PZ2 | 200             | 100 | 2.400 |
| ABTG5030 | 5 x 30   | 8,270 | PZ3 | 200             | 100 | 2.400 |
| ABTG5040 | 5 x 40   | 8,757 | PZ3 | 200             | 100 | 2.400 |

## TM-VR

Screw Coupling nut for threaded rod



SANITATION



| CODE      | SIZE   | €/100   |    |       |
|-----------|--------|---------|----|-------|
| TMVR06065 | 6 x 65 | 151,730 | 50 | 1.200 |
| TMVR07065 | 7 x 65 | 158,963 | 50 | 1.200 |
| TMVR08065 | 8 x 65 | 162,187 | 50 | 1.200 |



Double threaded screw

# ES-DR



 Technical info  
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SANITATION





## ES-DR

Zinc-plated. TX

| CODE      | SIZE      | €/100  | INSTALLATION KEY |  |  |
|-----------|-----------|--------|------------------|---|---|
| ESDR06040 | M6 x 40   | 8,613  | -                | 100   | 3.000   |
| ESDR06050 | M6 x 50   | 10,270 | -                | 100   | 2.400   |
| ESDR06060 | M6 x 60   | 11,860 | -                | 100   | 2.400   |
| ESDR06070 | M6 x 70   | 13,873 | -                | 100   | 1.600   |
| ESDR06080 | M6 x 80   | 15,527 | -                | 100   | 1.600   |
| ESDR08050 | M8 x 50   | 11,653 | -                | 100   | 1.600   |
| ESDR08060 | M8 x 60   | 14,153 | -                | 100   | 800   |
| ESDR08070 | M8 x 70   | 16,200 | -                | 100   | 800   |
| ESDR08080 | M8 x 80   | 18,193 | 6                | 100   | 800   |
| ESDR08090 | M8 x 90   | 19,673 | 6                | 100   | 800   |
| ESDR08100 | M8 x 100  | 21,087 | 6                | 100   | 800   |
| ESDR08110 | M8 x 110  | 24,103 | 6                | 100   | 800   |
| ESDR08120 | M8 x 120  | 29,887 | 6                | 100   | 800   |
| ESDR08130 | M8 x 130  | 35,283 | 6                | 100   | 800   |
| ESDR10080 | M10 x 80  | 28,207 | 8                | 100   | 800   |
| ESDR10100 | M10 x 100 | 33,847 | 8                | 100   | 400   |
| ESDR10110 | M10 x 110 | 37,713 | 8                | 100   | 400   |
| ESDR10120 | M10 x 120 | 47,147 | 8                | 100   | 400   |
| ESDR10130 | M10 x 130 | 57,950 | 8                | 100   | 400   |
| ESDR10140 | M10 x 140 | 61,673 | 8                | 100   | 400   |
| ESDR10150 | M10 x 150 | 65,267 | 8                | 100   | 400   |
| ESDR10180 | M10 x 180 | 88,197 | 8                | 100   | 300   |
| ESDR10200 | M10 x 200 | 98,053 | 8                | 100   | 200   |



### Self-service

| CODE        | SIZE      | €/BAG | PCS  | BAGS  |
|-------------|-----------|-------|--|---|
| LSESDR06080 | M6 x 80   | 5,111 | 25   | 7   |
| LSESDR08060 | M8 x 60   | 5,240 | 25   | 7   |
| LSESDR08080 | M8 x 80   | 6,498 | 25   | 6   |
| LSESDR08100 | M8 x 100  | 7,659 | 25   | 6   |
| LSESDR08120 | M8 x 120  | 7,789 | 20   | 6   |
| LSESDR10080 | M10 x 80  | 7,362 | 20   | 6   |
| LSESDR10100 | M10 x 100 | 8,006 | 18   | 6   |
| LSESDR10120 | M10 x 120 | 8,463 | 15   | 7   |



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STAINLESS STEEL



## ES-DA2

A2 Stainless steel. TX

| CODE       | SIZE     | €/100   | INSTALLATION KEY |  |  |
|------------|----------|---------|------------------|---|---|
| ESDA208060 | M8 x 60  | 101,123 | 6                | 100   | 800   |
| ESDA210060 | M10 x 60 | 188,120 | 8                | 100   | 800   |



Washer for clamps



# AB-F

SANITATION



## AB-FP

Flat washer for clamps

| CODE   | SIZE | €/100 |  |  |
|--------|------|-------|---|---|
| ABFP25 | 25   | 6,673 | 100   | 2.400   |
| ABFP32 | 32   | 9,813 | 100   | 2.400   |



# AB-F

Washer for clamps



## AB-FC

Conical washer for clamps



SANITATION



| CODE   | SIZE | €/100         |  |  |
|--------|------|---------------|---|---|
| ABFC09 | 9    | <b>10,823</b> | 100   | 2.400   |
| ABFC14 | 14   | <b>16,870</b> | 100   | 1.200   |
| ABFC19 | 19   | <b>26,900</b> | 100   | 1.200   |

# PF

Flat bar for fixation



## PF-ZN

Zinc-plated



METAL



| CODE      | SIZE   | €/100         |  |  |
|-----------|--------|---------------|---|---|
| PFZNM0800 | M8     | <b>50,680</b> | 100   | 600   |
| PFZNM0810 | M8+M10 | <b>63,713</b> | 100   | 600   |
| PFZNM1000 | M10    | <b>61,293</b> | 100   | 600   |



## PF-A4

A4 Stainless steel



STAINLESS  
STEEL



| CODE      | SIZE   | €/100          |  |  |
|-----------|--------|----------------|---|---|
| PFA4M0800 | M8     | <b>292,830</b> | 100   | 600   |
| PFA4M0810 | M8+M10 | <b>349,020</b> | 100   | 600   |
| PFA4M1000 | M10    | <b>334,547</b> | 100   | 600   |

# ABE-R

Self-drilling screw with male thread and accessories


## NEW ABE-RM

Self-drilling screw with male thread



METAL





| CODE       | SIZE    | €/100         |  |  |
|------------|---------|---------------|---|---|
| ABERM06006 | M6 x 5  | <b>54,460</b> | 200   | 2.400   |
| ABERM08010 | M8 x 10 | <b>80,807</b> | 100   | 1.200   |
| ABERM08015 | M8 x 15 | <b>87,697</b> | 100   | 1.200   |

## NEW ABE-BO

Hexagonal nut setter for ABE-RM



METAL

| CODE    | SIZE   | €/100            |  |  |
|---------|--------|------------------|---|---|
| ABEB010 | 10 mm. | <b>1.349,333</b> | 5   | 150   |
| ABEB013 | 13 mm. | <b>1.349,333</b> | 5   | 150   |



# BATHROOM AND AIR CONDITIONING FIXINGS

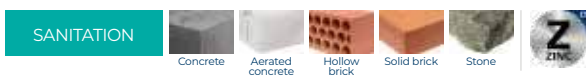


# RA

## Aluminium radiator supports

### RA-TRG

Adjustable triangular support with anti vibrations rubber. 2 PCS x KIT

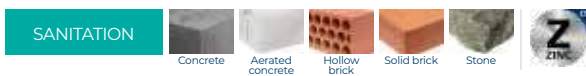


| CODE     | SIZE | €/KIT | KITS x |
|----------|------|-------|--------|
| RATRG095 | 95   | 4,517 | 50     |



### RA-TRI

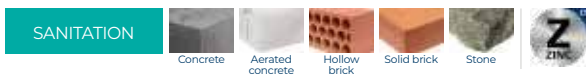
1" triangular support



| CODE     | SIZE | €/100   | KITS x |
|----------|------|---------|--------|
| RATRI095 | 95   | 142,927 | 100    |

### RA-FRE

Straight Ferroli support. 2 PCS x KIT



| CODE     | SIZE | €/KIT | KITS x |
|----------|------|-------|--------|
| RAFRE095 | 95   | 4,343 | 50     |



### RA-FIN

Inclined Ferroli support. 2 PCS x KIT



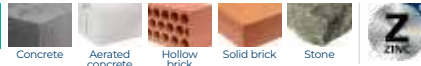
| CODE     | SIZE | €/KIT | KITS x |
|----------|------|-------|--------|
| RAFIN100 | 100  | 4,591 | 50     |



Aluminium radiator supports

RA

SANITATION



| CODE    | SIZE | €/KIT | KITS |
|---------|------|-------|------|
| RAR0100 | 100  | 7,189 | 50   |

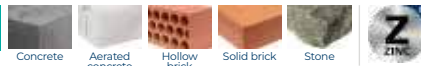
**TN4S**  
With multimaterial high-quality nylon plug

**RA-RO**

Roca support. 2 PCS x KIT



SANITATION



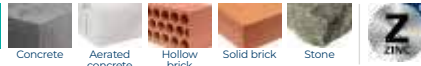
| CODE     | SIZE | €/100   | KITS |
|----------|------|---------|------|
| RAFEM145 | 145  | 125,743 | 250  |
| RAFEM175 | 175  | 132,247 | 250  |

**RA-FEM**

Ferrolli support to recess



SANITATION



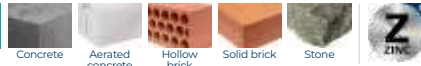
| CODE     | SIZE    | €/100   | KITS |
|----------|---------|---------|------|
| RARAY032 | 32 x 78 | 101,990 | 250  |

**RA-RAY**

Rayco support



SANITATION



| CODE     | SIZE    | €/100   | KITS |
|----------|---------|---------|------|
| RAPES032 | 32 x 78 | 104,863 | 250  |

**RA-PES**

Universal support



**22 KITS SOLUTIONS**

**easykits**

INCREASES CROSS-SELLING

ATTRACTIVE VISUAL PACKAGING

USEFUL INFORMATION ON PACKAGING

SOLUTIONS FOR COMMON PRODUCTS

# SA Sanitary fixings

## SA-LN

Sanitary fixings with nylon nut. 2 PCS x KIT



|           |           | SANITATION |        |  |  |  |  |  | Ny NYLON | Z ZINC |  |
|-----------|-----------|------------|--------|--|--|--|--|--|----------|--------|--|
| CODE      | SIZE      | € /KIT     | KITS x |  |  |  |  |  |          |        |  |
| SALN08100 | M8 x 100  | 2,290      | 50     |  |  |  |  |  |          |        |  |
| SALN10120 | M10 x 120 | 2,977      | 50     |  |  |  |  |  |          |        |  |

**TN4S**  
With multimaterial high-quality nylon plug

## SA-LH

Sanitary fixings with iron nut. 2 PCS x KIT

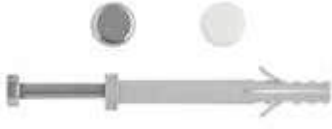


|           |           | SANITATION |        |  |  |  |  |  | Ny NYLON | Z ZINC |  |
|-----------|-----------|------------|--------|--|--|--|--|--|----------|--------|--|
| CODE      | SIZE      | € /KIT     | KITS x |  |  |  |  |  |          |        |  |
| SALH08100 | M8 x 100  | 2,453      | 100    |  |  |  |  |  |          |        |  |
| SALH10120 | M10 x 120 | 3,250      | 50     |  |  |  |  |  |          |        |  |

ALSO AVAILABLE  
**easykits**  
**TN4S**  
With multimaterial high-quality nylon plug

## SA-IL

Stainless steel WC and bidet fixing kit with long nylon plug. 2 PCS x KIT



|           |         | SANITATION |        |  |  |  |  |  | A2 INOX | Ny NYLON |  |
|-----------|---------|------------|--------|--|--|--|--|--|---------|----------|--|
| CODE      | SIZE    | € /KIT     | KITS x |  |  |  |  |  |         |          |  |
| SAIL06080 | M6 x 80 | 3,257      | 100    |  |  |  |  |  |         |          |  |

## SA-WZ

WC and bidet fixing kit, zinc-plated. 2 PCS x KIT



|           |         | SANITATION |        |  |  |  |  |  | Ny NYLON | Z ZINC |  |
|-----------|---------|------------|--------|--|--|--|--|--|----------|--------|--|
| CODE      | SIZE    | € /KIT     | KITS x |  |  |  |  |  |          |        |  |
| SAWZ05080 | M5 x 80 | 1,350      | 300    |  |  |  |  |  |          |        |  |

**TN4S**  
With multimaterial high-quality nylon plug

## SA-WL

WC and bidet fixing kit, brass. 2 PCS x KIT



|           |         | SANITATION |        |  |  |  |  |  | L BRASS | Ny NYLON |  |
|-----------|---------|------------|--------|--|--|--|--|--|---------|----------|--|
| CODE      | SIZE    | € /KIT     | KITS x |  |  |  |  |  |         |          |  |
| SAWL05080 | M5 x 80 | 3,443      | 100    |  |  |  |  |  |         |          |  |

**TN4S**  
With multimaterial high-quality nylon plug



Sanitary fixings

SA

SANITATION



| CODE      | SIZE    | €/KIT | KITS x KIT |
|-----------|---------|-------|------------|
| SACI06080 | M6 x 80 | 6,187 | 100        |



SA-CI

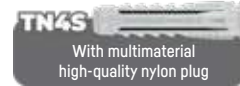
Cistern fixing kit. 2 PCS x KIT



SANITATION



| CODE      | SIZE    | €/KIT | KITS x KIT |
|-----------|---------|-------|------------|
| SAWH06070 | M6 x 70 | 2,360 | 50         |



SA-WH

Horizontal WC fixing kit. 2 PCS x KIT



SANITATION



| CODE       | SIZE  | €/KIT | KITS x KIT |
|------------|-------|-------|------------|
| SAWHM06060 | ∅6x60 | 5,897 | 50         |

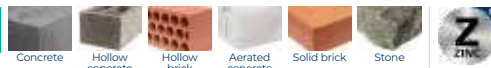


SA-WHM

Horizontal multiposition fixing elements for WC. 2 PCS x KIT



SANITATION



| CODE      | SIZE   | €/100   | KITS x KIT |
|-----------|--------|---------|------------|
| SATEB0860 | ∅8x60  | 135,817 | 50         |
| SATEB1080 | ∅10x80 | 240,517 | 50         |

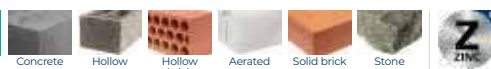


SA-TE TB

Fixing elements for boilers and heaters. Screw. 2 PCS x KIT



SANITATION



| CODE      | SIZE   | €/100   | KITS x KIT |
|-----------|--------|---------|------------|
| SATEA0865 | ∅8x65  | 129,510 | 50         |
| SATEA1075 | ∅10x75 | 181,587 | 50         |



SA-TE AL

Fixing elements for boilers and heaters. Hook screw. 2 PCS x KIT




# CO

## Kit for air-conditioning sets

### CO-SO

Kit for air-conditioning sets. 2 PCS x KIT



| CODE      | SIZE      | €/KIT         | KITS x  |
|-----------|-----------|---------------|--|
| COSO15400 | 1,5 x 400 | <b>34,820</b> | 1  |
| COSO15450 | 1,5 x 450 | <b>37,903</b> | 1  |
| COSO15500 | 1,5 x 500 | <b>46,693</b> | 1  |
| COSO20400 | 2 x 400   | <b>52,930</b> | 1  |
| COSO20450 | 2 x 450   | <b>57,007</b> | 1  |
| COSO20500 | 2 x 500   | <b>58,243</b> | 1  |


SANITATION 



### CO-KS

Silent block support kit for AC. 4 PCS x KIT



| CODE      | SIZE    | €/KIT        | KITS x  |
|-----------|---------|--------------|--|
| COKS08060 | M8 x 60 | <b>7,857</b> | 1  |

SANITATION 



**EASYKITS**

**easykits**  
Fijaciones techo gancho  
Hook ceiling fixings  
Fixations pour plafond crochet  
Macizo | Solid | Solide

**easy**  
Fijaciones te...  
Light ceiling  
Fixations pour pl...  
Hueco | Hollow  
25kg  
Cargas ligeras  
Light loads  
Charges légères

**INDEX**  
A PERFECT FIXING

**easykits**  
**Lavabos**  
Washbassins | Lavabos  
Multimaterial  
Multimaterial | Multimateriaux  
Cargas medias  
Medium loads  
Charges moyennes  
**INDEX**  
A PERFECT FIXING

**easy**  
Fijaciones  
Heavy c...  
Fixations po...  
Macizo | S...  
185kg  
Carga  
Heavy  
Char...

**INDEX**  
A PERFECT FIXING

**INDEX**  
A PERFECT FIXING  
35kg  
Cargas altas  
Heavy loads  
Charges élevées

**INDEX**  
A PERFECT FIXING

**easykits**  
Fijaciones accesorios pesados  
Heavy accessories fixings  
Fixations accessoires lourds  
Multimaterial  
Multimaterial | Multimateriaux  
120kg  
Macizo | Solid | Solide  
40kg  
Hueco | Hollow  
Creux  
Cargas altas  
Heavy loads  
Charges élevées  
**INDEX**  
A PERFECT FIXING

**easykits**  
Fijaciones techo ligeras  
Light ceiling fixings  
Fixations pour plafond léger  
Macizo | Solid | Solide  
90kg  
Cargas ligeras  
Light loads  
Charges légères  
**INDEX**  
A PERFECT FIXING

**easykits**  
Fijaciones accesorios exterior  
Outdoor accessories fixings  
Fixations accessoires extérie...  
Multimaterial  
Multimaterial | Multimateriaux  
20kg  
Hueco | Hollow  
Creux  
Cargas me...  
Medium  
Char...

**easy  
kits**

# EK

## Fencing accessories

### EKMULCAN

Clamp post

MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMULCAN | TCCA05050    | 5 x 50 Ø5    | 8         | 4,727 | 12                 |
|          | BROCA GRATIS | 5 x 85       | 1         |       |                    |

### EKMULFAE

Screw tighten clamp

MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMULFAE | TN4506       | 6 x 30 Ø6    | 4         | 4,727 | 12                 |
|          | TPA240050    | 4 x 50       | 4         |       |                    |
|          | BROCA GRATIS | 6 x 100      | 1         |       |                    |

### EKMULTEN

Screw tighten clamp

MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMULTEN | TN4508       | 8 x 40 Ø8    | 4         | 6,702 | 12                 |
|          | TBA206050    | 6 x 50       | 4         |       |                    |
|          | 125IM06      | M6           | 4         |       |                    |
|          | BROCA GRATIS | 8 x 120      | 1         |       |                    |

### EKMULAC

Screw tighten clamp

MULTI-MATERIAL



| CODE    | CONTENT    | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|---------|------------|--------------|-----------|-------|--------------------|
| EKMULAC | TNUXE10080 | 10 x 80 Ø10  | 4         | 4,737 | 12                 |
|         | TN4506     | 6 x 30 Ø6    | 4         |       |                    |
|         | D12505     | M5           | 4         |       |                    |
|         | T8142038   | 4,2 x 38     | 4         |       |                    |

### EKMULTOL

Screw tighten clamp

MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMULTOL | TNUXE08080   | 8 x 80 Ø8    | 4         | 6,702 | 12                 |
|          | BROCA GRATIS | 8 x 120      | 1         |       |                    |



Fencing accesories

EK

MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT         | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|----------------------|-----------|-------|--------------------|
| EKMULCAL | TN4S10       | 10 x 50 Ø10          | 2         | 6,702 | 12                 |
|          | TB06060      | 4 x 50               | 2         |       |                    |
|          | ALRO22100    | 22x100 (6 x 79 x 23) | 2         |       |                    |
|          | BROCA GRATIS | 10 x 120             | 1         |       |                    |

**EKMULCAL**

Screw tighten clamp



MULTI-MATERIAL



| CODE      | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG  | MINIMUM UNITS SALE |
|-----------|--------------|--------------|-----------|--------|--------------------|
| EKMULAV08 | SALH08100    | M8 x 100     | 2         | 6,702  | 12                 |
|           | BROCA GRATIS | 8 x 120      | 11        |        |                    |
| EKMULAV10 | SALH10120    | M10 x 120    | 2         | 10,047 | 12                 |
|           | BROCA GRATIS | 10 x 120     | 1         |        |                    |

**EKMULAV**

Screw tighten clamp



MULTI-MATERIAL



| CODE     | CONTENT   | SIZE CONTENT | PCS X BAG | €/BAG  | MINIMUM UNITS SALE |
|----------|-----------|--------------|-----------|--------|--------------------|
| EKMULCIS | SACIO6080 | M6 x 80      | 2         | 10,047 | 12                 |

**EKMULCIS**

Screw tighten clamp



MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMULWCB | SAWZ05080    | M5 x 80      | 2         | 6,702 | 12                 |
|          | BROCA GRATIS | 8 x 120      | 1         |       |                    |

**EKMULWCB**

Screw tighten clamp



MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG  | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|--------|--------------------|
| EKMULRAD | RATRG095     | 95           | 2         | 12,560 | 12                 |
|          | BROCA GRATIS | 8 x 120      | 1         |        |                    |

**EKMULRAD**

Screw tighten clamp



# EK

## Fencing accessories

### EKMULROB

Screw tighten clamp



MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMULROB | TN4S10       | 10 x 50 Ø10  | 4         | 7,170 | 12                 |
|          | INVN7070     | 7 x 70       | 4         |       |                    |
|          | BROCA GRATIS | 10 x 120     | 1         |       |                    |

### EKMACILU

Screw tighten clamp



SOLID



| CODE     | CONTENT      | SIZE CONTENT          | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|-----------------------|-----------|-------|--------------------|
| EKMACILU | TN4S06       | 6 x 30 Ø6             | 4         | 4,727 | 12                 |
|          | TPPOZ40045   | 4 x 45                | 4         |       |                    |
|          | ALRO18050    | 18x50 (3,7 x 37 x 15) | 4         |       |                    |
|          | BROCA GRATIS | 6 x 100               | 1         |       |                    |

### EKHUEILU

Screw tighten clamp



HOLLOWS



| CODE     | CONTENT    | SIZE CONTENT          | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|------------|-----------------------|-----------|-------|--------------------|
| EKHUEILU | TAPLANY    | 15 x 33               | 4         | 4,727 | 12                 |
|          | TPPOZ45045 | 4,5 x 45              | 4         |       |                    |
|          | ALRO19050  | 19x50 (4,4 x 37 x 15) | 4         |       |                    |

### EKMACFTP

Screw tighten clamp



SOLID



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMACFTP | TN4S10       | 10 x 50 Ø10  | 4         | 6,702 | 12                 |
|          | TB06060      | 6 x 60       | 4         |       |                    |
|          | D12506       | M6           | 4         |       |                    |
|          | BROCA GRATIS | 10 x 120     | 1         |       |                    |

### EKHUEFTP

Screw tighten clamp



HOLLOWS



| CODE     | CONTENT | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|---------|--------------|-----------|-------|--------------------|
| EKHUEFTP | BAESM06 | M6 Ø16       | 4         | 6,702 | 12                 |

### EKMACFTL

Screw tighten clamp



SOLID



| CODE     | CONTENT      | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|--------------|-----------|-------|--------------------|
| EKMACFTL | TN4S06       | 6 x 30 Ø6    | 4         | 4,727 | 12                 |
|          | TPPOZ40040   | 4 x 40       | 4         |       |                    |
|          | BROCA GRATIS | 6 x 100      | 1         |       |                    |



Fencing accesories

EK

HOLLOWS



| CODE     | CONTENT | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|---------|--------------|-----------|-------|--------------------|
| EKHUEFTL | BAESM04 | M4 Ø14       | 2         | 4,727 | 12                 |

**EKHUEFTL**

Screw tighten clamp



SOLID



| CODE     | CONTENT      | SIZE CONTENT          | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|-----------------------|-----------|-------|--------------------|
| EKMACFTG | TN4S06       | 6 x 30 Ø6             | 4         | 4,727 | 12                 |
|          | ALHA19070    | 19x70 (4,4 x 41 x 15) | 4         |       |                    |
|          | BROCA GRATIS | 6 x 100               | 1         |       |                    |

**EKMACFTG**

Screw tighten clamp



HOLLOWS



| CODE     | CONTENT | SIZE CONTENT | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|---------|--------------|-----------|-------|--------------------|
| EKHUEFTG | BAGAM06 | 10 x 80 Ø10  | 2         | 4,727 | 12                 |

**EKHUEFTG**

Screw tighten clamp



MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT          | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|-----------------------|-----------|-------|--------------------|
| EKMULFAP | TN4S08       | 8 x 40 Ø8             | 4         | 6,702 | 12                 |
|          | TPPOZ05050   | 5 x 50                | 4         |       |                    |
|          | ALRO19050    | 19x50 (4,4 x 37 x 15) | 4         |       |                    |
|          | BROCA GRATIS | 8 x 120               | 1         |       |                    |

**EKMULFAP**

Screw tighten clamp



MULTI-MATERIAL



| CODE     | CONTENT      | SIZE CONTENT          | PCS X BAG | €/BAG | MINIMUM UNITS SALE |
|----------|--------------|-----------------------|-----------|-------|--------------------|
| EKMULFAL | TN4S05       | 5 x 25 Ø5             | 4         | 4,727 | 12                 |
|          | TPPOZ35030   | 3,5 x 30              | 4         |       |                    |
|          | ALRO17040    | 17x40 (3,5 x 29 x 13) | 4         |       |                    |
|          | BROCA GRATIS | 5 x 85                | 1         |       |                    |

**EKMULFAL**

Screw tighten clamp







# STAINLESS RANGE



# MTP

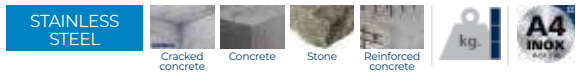
Through bolt anchor for heavy loads in cracked & uncracked concrete

## MTP-A4

Opt.1 ETA Assessed. A4 Stainless steel shaft. A4 Stainless steel clip



Technical info P. 377



| CODE      | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |     |
|-----------|---------------|-----------|------------------------|----------------------|-----|-----|
| APA408075 | M8 x 75 Ø8    | 346,407   | 9                      | C                    | 100 | 600 |
| APA408095 | M8 x 95 Ø8    | 391,750   | 29                     | E                    | 100 | 600 |
| APA408115 | M8 x 115 Ø8   | 513,663   | 49                     | G                    | 100 | 400 |
| APA408135 | M8 x 135 Ø8   | 594,280   | 69                     | H                    | 50  | 300 |
| APA410090 | M10 x 90 Ø10  | 610,620   | 10                     | E                    | 100 | 400 |
| APA410105 | M10 x 105 Ø10 | 652,970   | 25                     | F                    | 50  | 300 |
| APA410115 | M10 x 115 Ø10 | 719,317   | 35                     | G                    | 50  | 300 |
| APA410135 | M10 x 135 Ø10 | 862,897   | 55                     | H                    | 50  | 300 |
| APA410165 | M10 x 165 Ø10 | 1.029,647 | 85                     | K                    | 50  | 100 |
| APA410185 | M10 x 185 Ø10 | 1.101,957 | 105                    | L                    | 50  | 100 |
| APA412110 | M12 x 110 Ø12 | 886,577   | 14                     | F                    | 50  | 200 |
| APA412120 | M12 x 120 Ø12 | 951,137   | 24                     | G                    | 50  | 200 |
| APA412130 | M12 x 130 Ø12 | 1.032,820 | 34                     | H                    | 50  | 200 |
| APA412150 | M12 x 150 Ø12 | 1.206,967 | 54                     | I                    | 50  | 100 |
| APA412180 | M12 x 180 Ø12 | 1.335,113 | 84                     | L                    | 50  | 150 |
| APA412200 | M12 x 200 Ø12 | 1.406,207 | 104                    | M                    | 50  | 100 |
| APA416125 | M16 x 125 Ø16 | 1.825,197 | 8                      | G                    | 50  | 100 |
| APA416145 | M16 x 145 Ø16 | 2.048,510 | 28                     | I                    | 25  | 100 |
| APA416175 | M16 x 175 Ø16 | 2.682,920 | 58                     | K                    | 25  | 50  |
| APA416190 | M16 x 190 Ø16 | 2.778,400 | 73                     | L                    | 25  | 50  |
| APA416220 | M16 x 220 Ø16 | 2.959,253 | 103                    | O                    | 20  | 40  |
| APA420200 | M20 x 200 Ø20 | 4.566,043 | 62                     | M                    | 20  | 40  |
| APA420240 | M20 x 240 Ø20 | 5.240,703 | 102                    | P                    | 15  | 30  |
| APA420285 | M20 x 285 Ø20 | 6.165,123 | 147                    | S                    | 10  | 20  |

# MTH

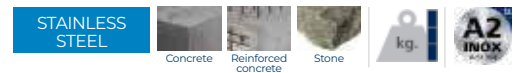
Through bolt anchor for heavy loads in uncracked concrete

## MTH-A2

Opt.7 ETA Assessed. A2 Stainless steel shaft. A2 Stainless steel clip



Technical info P. 380



| CODE      | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |     |       |
|-----------|---------------|-----------|------------------------|----------------------|-----|-------|
| • M106045 | M6 x 45 Ø6    | 151,313   | 1                      | A                    | 200 | 1.200 |
| • M106060 | M6 x 60 Ø6    | 169,690   | 2                      | B                    | 200 | 1.200 |
| • M106080 | M6 x 80 Ø6    | 177,483   | 22                     | D                    | 200 | 1.200 |
| • M106120 | M6 x 120 Ø6   | 212,287   | 62                     | G                    | 100 | 600   |
| • M106140 | M6 x 140 Ø6   | 268,680   | 82                     | I                    | 100 | 600   |
| • M106160 | M6 x 160 Ø6   | 300,950   | 102                    | J                    | 100 | 400   |
| • M106170 | M6 x 170 Ø6   | 338,007   | 112                    | K                    | 100 | 400   |
| • M106180 | M6 x 180 Ø6   | 366,523   | 122                    | L                    | 100 | 300   |
| • M108050 | M8 x 50 Ø8    | 183,510   | 4                      | A                    | 100 | 800   |
| M108075   | M8 x 75 Ø8    | 201,007   | 5                      | C                    | 100 | 600   |
| M108090   | M8 x 90 Ø8    | 228,747   | 20                     | E                    | 100 | 600   |
| M108115   | M8 x 115 Ø8   | 295,897   | 45                     | G                    | 100 | 400   |
| M110070   | M10 x 70 Ø10  | 311,020   | 3                      | C                    | 100 | 400   |
| M110090   | M10 x 90 Ø10  | 348,143   | 10                     | E                    | 100 | 400   |
| M110120   | M10 x 120 Ø10 | 408,060   | 40                     | G                    | 50  | 300   |
| M110150   | M10 x 150 Ø10 | 571,310   | 70                     | I                    | 50  | 200   |
| • M112075 | M12 x 75 Ø12  | 471,593   | 5                      | C                    | 50  | 300   |
| M112090   | M12 x 90 Ø12  | 472,673   | 13                     | D                    | 50  | 200   |
| M112110   | M12 x 110 Ø12 | 511,580   | 18                     | F                    | 50  | 200   |
| M112140   | M12 x 140 Ø12 | 641,200   | 48                     | I                    | 50  | 200   |
| • M116090 | M16 x 90 Ø16  | 1.145,787 | 4                      | D                    | 25  | 150   |
| M116145   | M16 x 145 Ø16 | 1.337,527 | 23                     | I                    | 25  | 100   |
| M116170   | M16 x 170 Ø16 | 1.466,613 | 48                     | K                    | 25  | 75    |
| • M120120 | M20 x 120 Ø20 | 1.832,660 | 5                      | G                    | 20  | 40    |
| M120170   | M20 x 170 Ø20 | 2.277,220 | 23                     | K                    | 20  | 40    |
| M120220   | M20 x 220 Ø20 | 2.941,633 | 73                     | O                    | 20  | 40    |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist

### Blister

| CODE      | SIZE         | €/BAG | PCS BAG | BAGS |
|-----------|--------------|-------|---------|------|
| BZMI08075 | M8 x 75 Ø8   | 4,146 | 2       | 12   |
| BZMI10090 | M10 x 90 Ø10 | 4,146 | 2       | 10   |

### Window box

| CODE     | SIZE          | €/BOX  | PCS BOX | BOXES |
|----------|---------------|--------|---------|-------|
| VM108075 | M8 x 75 Ø8    | 29,713 | 10      | 8     |
| VM108090 | M8 x 90 Ø8    | 31,771 | 10      | 8     |
| VM110070 | M10 x 70 Ø10  | 32,829 | 8       | 8     |
| VM110090 | M10 x 90 Ø10  | 36,746 | 8       | 8     |
| VM110120 | M10 x 120 Ø10 | 32,307 | 6       | 8     |
| VM112110 | M12 x 110 Ø12 | 40,078 | 6       | 8     |

### Self-service

| CODE      | SIZE          | €/BAG  | PCS BAG | BAGS |
|-----------|---------------|--------|---------|------|
| LSMI08075 | M8 x 75 Ø8    | 29,584 | 12      | 7    |
| LSMI08090 | M8 x 90 Ø8    | 33,660 | 12      | 7    |
| LSMI10070 | M10 x 70 Ø10  | 36,232 | 10      | 6    |
| LSMI10090 | M10 x 90 Ø10  | 36,049 | 8       | 6    |
| LSMI10120 | M10 x 120 Ø10 | 38,029 | 8       | 6    |
| LSMI12110 | M12 x 110 Ø12 | 39,316 | 6       | 6    |

Through bolt anchor for heavy loads in uncracked concrete

MTH



02 Technical info P. 380

STAINLESS STEEL



MTH-A4

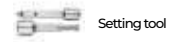
Opt.7 ETA Assessed. A4 Stainless steel shaft. A4 Stainless steel clip

| CODE        | SIZE          | €/100     | THICKNESS MAX. FIXTURE | AXIS LETTER (LENGTH) |  |  |
|-------------|---------------|-----------|------------------------|----------------------|---|---|
| • MIA406045 | M6 x 45 Ø6    | 189,463   | 1                      | A                    | 200   | 1.200   |
| • MIA406060 | M6 x 60 Ø6    | 206,410   | 2                      | B                    | 200   | 1.200   |
| • MIA406080 | M6 x 80 Ø6    | 219,837   | 22                     | D                    | 200   | 1.200   |
| • MIA408050 | M8 x 50 Ø8    | 228,390   | 4                      | A                    | 100   | 800   |
| MIA408075   | M8 x 75 Ø8    | 242,537   | 5                      | C                    | 100   | 600   |
| MIA408090   | M8 x 90 Ø8    | 270,643   | 20                     | E                    | 100   | 600   |
| MIA408115   | M8 x 115 Ø8   | 355,543   | 45                     | G                    | 100   | 400   |
| MIA410070   | M10 x 70 Ø10  | 397,217   | 3                      | C                    | 100   | 400   |
| MIA410090   | M10 x 90 Ø10  | 450,223   | 10                     | E                    | 100   | 400   |
| MIA410120   | M10 x 120 Ø10 | 547,293   | 40                     | G                    | 50  | 300   |
| MIA410150   | M10 x 150 Ø10 | 776,167   | 70                     | I                    | 50  | 200   |
| • MIA412075 | M12 x 75 Ø12  | 594,010   | 5                      | C                    | 50  | 300   |
| MIA412090   | M12 x 90 Ø12  | 598,210   | 13                     | D                    | 50  | 200   |
| MIA412110   | M12 x 110 Ø12 | 654,380   | 18                     | F                    | 50  | 200   |
| MIA412140   | M12 x 140 Ø12 | 784,697   | 48                     | I                    | 50  | 200   |
| • MIA416090 | M16 x 90 Ø16  | 1.419,293 | 4                      | D                    | 25  | 150   |
| MIA416145   | M16 x 145 Ø16 | 1.752,783 | 23                     | I                    | 25  | 100   |
| MIA416170   | M16 x 170 Ø16 | 2.024,060 | 48                     | K                    | 25  | 75  |
| • MIA420120 | M20 x 120 Ø20 | 2.352,847 | 5                      | G                    | 20  | 40  |
| MIA420170   | M20 x 170 Ø20 | 3.216,250 | 23                     | K                    | 20  | 40  |
| MIA420220   | M20 x 220 Ø20 | 4.003,917 | 73                     | O                    | 20  | 40  |

• Non-assessed sizes  
• Non-assessed sizes for Fire Resist



Also available with DIN 9021 washer. Ask for price and delivery time



 Window box

| CODE       | SIZE          | €/BOX  | PCS | BOXES |
|------------|---------------|--------|-----|-------|
| VMIA408075 | M8 x 75 Ø8    | 32,804 | 10  | 8     |
| VMIA410090 | M10 x 90 Ø10  | 44,894 | 8   | 8     |
| VMIA412110 | M12 x 110 Ø12 | 51,364 | 6   | 8     |



 Self-service

| CODE        | SIZE          | €/BAG  | PCS | BAGS |
|-------------|---------------|--------|-----|------|
| LSMIA408075 | M8 x 75 Ø8    | 35,510 | 12  | 7    |
| LSMIA410090 | M10 x 90 Ø10  | 46,358 | 8   | 7    |
| LSMIA412110 | M12 x 110 Ø12 | 50,468 | 6   | 5    |

Setting tool for MT family

DO-MT

SOLID 

| CODE    | SIZE                  | €/PC   |  |  |
|---------|-----------------------|--------|---|---|
| DOMTA10 | M6 - M8 - M10         | 10,482 | 5   | 225   |
| DOMTA20 | M12 - M14 - M16 - M20 | 17,471 | 5   | 225   |

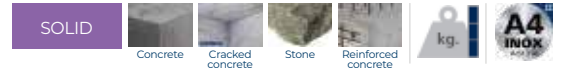


# TH/TF

Concrete screw anchor

**NEW TXE**

Concrete screw hexagonal with Bimetal point. Stainless steel A4



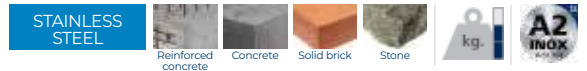
| CODE     | SIZE      | €/100   | THICKNESS MAX. FIXTURE | kg. |
|----------|-----------|---------|------------------------|-----|
| TXE06040 | Ø6 x 40   | 224,867 | 5                      | 100 |
| TXE06060 | Ø6 x 60   | 251,333 | 5                      | 100 |
| TXE08070 | Ø8 x 70   | 362,343 | 5                      | 50  |
| TXE08080 | Ø8 x 80   | 400,020 | 15                     | 25  |
| TXE08090 | Ø8 x 90   | 450,023 | 25                     | 25  |
| TXE08105 | Ø8 x 105  | 525,027 | 40                     | 25  |
| TXE10070 | Ø10 x 70  | 441,697 | 15                     | 50  |
| TXE10090 | Ø10 x 90  | 567,897 | 5                      | 25  |
| TXE10100 | Ø10 x 100 | 609,187 | 15                     | 25  |
| TXE10120 | Ø10 x 120 | 693,627 | 35                     | 25  |
| TXE12080 | Ø12 x 80  | 659,273 | 5                      | 25  |
| TXE12110 | Ø12 x 110 | 906,500 | 5                      | 25  |

# CH

Anti-spin sleeve anchor, for medium loads

**CH-A2**

A2 Stainless steel. Opt.7 ETA Assessed



| CODE        | SIZE          | €/100     | kg. | kg.   |
|-------------|---------------|-----------|-----|-------|
| ACHTA208C   | M6 x 45 Ø8    | 108,443   | 100 | 1.200 |
| ACHTA208L   | M6 x 60 Ø8    | 122,510   | 100 | 600   |
| • ACHTA209C | M6 x 45 Ø9    | 122,717   | 100 | 1.200 |
| • ACHTA209L | M6 x 60 Ø9    | 141,740   | 100 | 600   |
| • ACHTA210C | M8 x 60 Ø10   | 175,700   | 100 | 600   |
| ACHTA210L   | M8 x 80 Ø10   | 202,117   | 100 | 400   |
| • ACHTA211C | M8 x 60 Ø11   | 211,377   | 100 | 400   |
| • ACHTA211L | M8 x 80 Ø11   | 248,997   | 100 | 400   |
| • ACHTA212C | M10 x 70 Ø12  | 296,393   | 100 | 200   |
| ACHTA212L   | M10 x 100 Ø12 | 362,480   | 50  | 200   |
| • ACHTA214C | M10 x 70 Ø14  | 394,277   | 100 | 300   |
| • ACHTA214L | M10 x 100 Ø14 | 439,770   | 50  | 200   |
| • ACHTA216C | M12 x 80 Ø16  | 584,443   | 50  | 100   |
| ACHTA216L   | M12 x 110 Ø16 | 739,557   | 50  | 100   |
| ACHTA220C   | M16 x 110 Ø20 | 1.518,350 | 25  | 75    |

• Non-assessed sizes



| CODE        | SIZE        | €/BAG | PCS | BAGS |
|-------------|-------------|-------|-----|------|
| BZACHTA208C | M6 x 45 Ø8  | 4,146 | 2   | 15   |
| BZACHTA208L | M6 x 60 Ø8  | 4,146 | 2   | 15   |
| BZACHTA210C | M8 x 60 Ø10 | 4,146 | 2   | 15   |
| BZACHTA210L | M8 x 80 Ø10 | 4,146 | 2   | 15   |



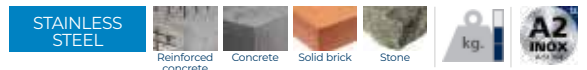
| CODE       | SIZE          | €/BOX  | PCS | BOXES |
|------------|---------------|--------|-----|-------|
| VACHTA208C | M6 x 45 Ø8    | 12,875 | 10  | 8     |
| VACHTA208L | M6 x 60 Ø8    | 14,969 | 10  | 8     |
| VACHTA210C | M8 x 60 Ø10   | 13,407 | 6   | 8     |
| VACHTA210L | M8 x 80 Ø10   | 15,963 | 6   | 8     |
| VACHTA212C | M10 x 70 Ø12  | 15,045 | 4   | 8     |
| VACHTA212L | M10 x 100 Ø12 | 18,570 | 4   | 8     |



| CODE        | SIZE          | €/BAG  | PCS | BAGS |
|-------------|---------------|--------|-----|------|
| LSACHTA208C | M6 x 45 Ø8    | 13,643 | 12  | 6    |
| LSACHTA208L | M6 x 60 Ø8    | 15,860 | 12  | 6    |
| LSACHTA210C | M8 x 60 Ø10   | 15,781 | 8   | 6    |
| LSACHTA210L | M8 x 80 Ø10   | 18,790 | 8   | 6    |
| LSACHTA212C | M10 x 70 Ø12  | 19,927 | 6   | 6    |
| LSACHTA212L | M10 x 100 Ø12 | 18,215 | 4   | 5    |

**CH-PI**

A2 Stainless steel flat head screw. Opt.7 ETA Assessed



| CODE      | SIZE          | €/100   | THICKNESS MAX. FIXTURE | kg. |
|-----------|---------------|---------|------------------------|-----|
| ACHTP108C | M6 x 45 Ø8    | 112,810 | 4                      | 100 |
| ACHTP108L | M6 x 60 Ø8    | 144,447 | 4                      | 100 |
| ACHTP110C | M8 x 60 Ø10   | 212,813 | 5                      | 600 |
| ACHTP110L | M8 x 80 Ø10   | 251,930 | 5                      | 400 |
| ACHTP112C | M10 x 70 Ø12  | 336,513 | 6                      | 300 |
| ACHTP112L | M10 x 100 Ø12 | 397,293 | 6                      | 300 |

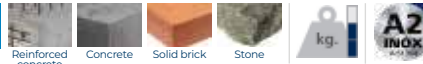


Anti-spin sleeve anchor, for medium loads

CH

02 Technical info p. 389

STAINLESS STEEL



| CODE      | SIZE         | €/100   | APERTURE HOOK |  |  |
|-----------|--------------|---------|---------------|---|---|
| ACHGA208C | M6 x 45 Ø8   | 400,150 | 10            | 100   | 600   |
| ACHGA210C | M8 x 60 Ø10  | 594,390 | 11            | 100   | 400   |
| ACHGA212C | M10 x 70 Ø12 | 828,000 | 14            | 50  | 200   |

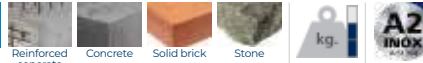
CH-GF A2



A2 Stainless steel forged hook bolt



02 Technical info p. 389

STAINLESS STEEL



| CODE      | SIZE         | €/100   | EYE BOLT Ø |  |  |
|-----------|--------------|---------|------------|---|---|
| ACHAA208C | M6 x 45 Ø8   | 426,207 | 10         | 100   | 600   |
| ACHAA210C | M8 x 60 Ø10  | 679,873 | 11         | 100   | 400   |
| ACHAA212C | M10 x 70 Ø12 | 923,937 | 14         | 50  | 200   |

CH-AF A2

A2 Stainless steel forged eye bolt





Drop-in anchor with internal thread for heavy loads

HE

02 Technical info p. 390

STAINLESS STEEL



| CODE    | SIZE         | €/100     | LENGTH |  |  |
|---------|--------------|-----------|--------|---|---|
| HEA4M06 | M6 x 25 Ø8   | 100,850   | 25     | 100   | 4,000   |
| HEA4M08 | M8 x 30 Ø10  | 143,797   | 30     | 100   | 1,600   |
| HEA4M10 | M10 x 40 Ø12 | 216,100   | 40     | 50  | 800   |
| HEA4M12 | M12 x 50 Ø15 | 430,263   | 50     | 50  | 600   |
| HEA4M16 | M16 x 65 Ø20 | 961,467   | 65     | 25  | 250   |
| HEA4M20 | M20 x 80 Ø25 | 1.756,097 | 80     | 25  | 100   |

HE-A4



A4 Stainless steel. ETA Assessed for non-structural applications



02 Technical info p. 390

STAINLESS STEEL



| CODE    | SIZE         | €/100   | LENGTH |  |  |
|---------|--------------|---------|--------|---|---|
| HEC4M06 | M6 x 25 Ø8   | 139,000 | 25     | 100   | 3,200   |
| HEC4M08 | M8 x 30 Ø10  | 199,027 | 30     | 100   | 1,600   |
| HEC4M10 | M10 x 40 Ø12 | 333,597 | 40     | 50  | 800   |
| HEC4M12 | M12 x 50 Ø15 | 599,793 | 50     | 50  | 400   |

HE-C4

With collar. A4 Stainless steel. ETA Assessed for non-structural applications



# AC

Winged steel anchor for heavy-duty fixings

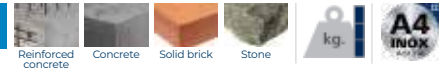
## AC-CI

A4 Stainless steel shield



02 Technical info P. 393

STAINLESS STEEL



| CODE    | SIZE         | €/100            | SHIELD LENGHT |    |       |
|---------|--------------|------------------|---------------|----|-------|
| AACCI06 | M6 x 40 Ø10  | <b>353,150</b>   | 40            | 50 | 1.200 |
| AACCI08 | M8 x 50 Ø14  | <b>640,333</b>   | 50            | 50 | 600   |
| AACCI10 | M10 x 60 Ø16 | <b>716,530</b>   | 60            | 25 | 300   |
| AACCI12 | M12 x 80 Ø20 | <b>1.325,597</b> | 80            | 10 | 120   |

# HI

Anti-spin sleeve anchor, for heavy-duty loads

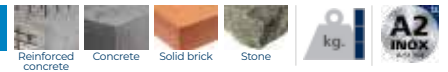
## HI-CI

A2 Stainless steel shield



02 Technical info P. 394

STAINLESS STEEL



| CODE      | SIZE         | €/100            | SHIELD LENGHT |     |     |
|-----------|--------------|------------------|---------------|-----|-----|
| AHICI0645 | M6 x 45 Ø12  | <b>587,350</b>   | 45            | 100 | 600 |
| AHICI0855 | M8 x 55 Ø14  | <b>824,913</b>   | 55            | 50  | 600 |
| AHICI1065 | M10 x 65 Ø16 | <b>1.101,323</b> | 65            | 50  | 300 |

# AV

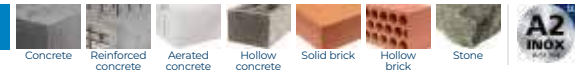
Screw anchor for ventilated façades

## AVR

Threaded



STAINLESS STEEL



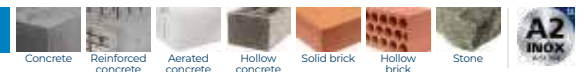
| CODE     | SIZE          | €/100          |     |     |
|----------|---------------|----------------|-----|-----|
| AVR08120 | M8 x 120 Ø8   | <b>295,500</b> | 100 | 600 |
| AVR08150 | M8 x 150 Ø8   | <b>327,720</b> | 100 | 600 |
| AVR10120 | M10 x 120 Ø10 | <b>369,527</b> | 100 | 400 |
| AVR10150 | M10 x 150 Ø10 | <b>422,883</b> | 100 | 200 |
| AVR10180 | M10 x 180 Ø10 | <b>470,500</b> | 100 | 200 |

## AVC

Corrugated



STAINLESS STEEL

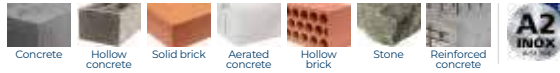






| CODE     | SIZE         | €/100          |     |     |
|----------|--------------|----------------|-----|-----|
| AVC08120 | 8 x 120 Ø8   | <b>318,267</b> | 100 | 400 |
| AVC08150 | 8 x 150 Ø8   | <b>356,270</b> | 100 | -   |
| AVC10120 | 10 x 120 Ø10 | <b>407,423</b> | 100 | 400 |
| AVC10150 | 10 x 150 Ø10 | <b>466,657</b> | 100 | 200 |
| AVC10180 | 10 x 180 Ø10 | <b>526,837</b> | 100 | 200 |

Stud bolt for chemical anchor, with nut and washer

EQ

CHEMICAL



| CODE      | SIZE      | €/100     |  |  | CODE      | SIZE      | €/100      |  |  |
|-----------|-----------|-----------|---|---|-----------|-----------|------------|--|---|
| EQA208110 | M8 x 110  | 341,587   | 10  | 240   | EQA220260 | M20 x 260 | 3.704,930  | 6  | 12  |
| EQA210130 | M10 x 130 | 564,510   | 10  | 120   | EQA224300 | M24 x 300 | 5.920,680  | 6  | 12  |
| EQA212160 | M12 x 160 | 935,570   | 10  | 120   | EQA230330 | M30 x 330 | 10.802,067 | 6  | 12  |
| EQA216190 | M16 x 190 | 1.938,470 | 10  | 40  |           |           |            |  |   |





EQ-A2

A2 Stainless steel



CHEMICAL



| CODE      | SIZE      | €/100     |  |  | CODE      | SIZE      | €/100      |  |  |
|-----------|-----------|-----------|---|---|-----------|-----------|------------|--|---|
| EQA408110 | M8 x 110  | 340,480   | 10  | 240   | EQA420260 | M20 x 260 | 5.074,133  | 6  | 12  |
| EQA410130 | M10 x 130 | 618,447   | 10  | 120   | EQA424300 | M24 x 300 | 8.363,180  | 6  | 12  |
| EQA412160 | M12 x 160 | 1.063,837 | 10  | 120   | EQA430330 | M30 x 330 | 14.752,700 | 6  | 12  |
| EQA416190 | M16 x 190 | 2.193,730 | 10  | 40  |           |           |            |  |   |

EQ-A4

A4 Stainless steel

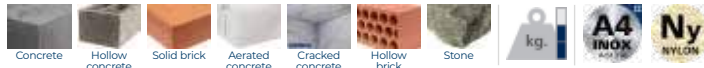




Universal high performance nylon plug

T-NUX

Technical info P. 400

STAINLESS STEEL



| CODE         | SIZE         | €/100   |  | THICKNESS MAX. FIXTURE |  |  |
|--------------|--------------|---------|---|------------------------|---|---|
| • TNXA408080 | 8 x 80 Ø8    | 274,340 | TX30  | 10                     | 50  | 600   |
| • TNXA408100 | 8 x 100 Ø8   | 330,807 | TX30  | 30                     | 50  | 600   |
| • TNXA408120 | 8 x 120 Ø8   | 408,667 | TX30  | 50                     | 50  | 300   |
| TNXA410080   | 10 x 80 Ø10  | 349,183 | TX40  | 10                     | 50  | 300   |
| TNXA410100   | 10 x 100 Ø10 | 416,913 | TX40  | 30                     | 50  | 300   |
| TNXA410120   | 10 x 120 Ø10 | 485,523 | TX40  | 50                     | 50  | 300   |
| TNXA410140   | 10 x 140 Ø10 | 575,743 | TX40  | 70                     | 50  | 300   |

• Non-assessed sizes for Fire Resist

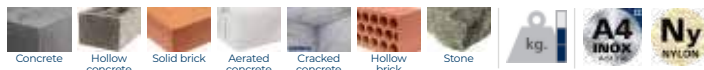
T-NUX A A4



A4 Stainless steel. Countersunk head. TX recess. ETA Assessed



Technical info P. 400

STAINLESS STEEL



| CODE         | SIZE         | €/100   | N° RECESS | THICKNESS MAX. FIXTURE |  |  |
|--------------|--------------|---------|-----------|------------------------|---|---|
| • TNXE408080 | 8 x 80 Ø8    | 385,110 | SW10/TX30 | 10                     | 50  | 600   |
| • TNXE408100 | 8 x 100 Ø8   | 456,453 | SW10/TX30 | 30                     | 50  | 300   |
| TNXE410080   | 10 x 80 Ø10  | 510,813 | SW13/TX40 | 10                     | 50  | 300   |
| TNXE410100   | 10 x 100 Ø10 | 533,470 | SW13/TX40 | 30                     | 50  | 300   |
| TNXE410120   | 10 x 120 Ø10 | 641,233 | SW13/TX40 | 50                     | 50  | 300   |
| TNXE410140   | 10 x 140 Ø10 | 747,997 | SW13/TX40 | 70                     | 50  | 200   |

• Non-assessed sizes for Fire Resist

T-NUX E A4

A4 Stainless steel. Hexagonal head. TX recess. ETA Assessed



# TC

Polyamide 6.6 Hammerfix plug. Preassembled saw-tooth screw

## TC-A2

Countersunk plug and A2 stainless steel screw



STAINLESS STEEL



| CODE      | SIZE       | €/100   |     | THICKNESS MAX. FIXTURE |     |       |
|-----------|------------|---------|-----|------------------------|-----|-------|
| TCA205030 | 5 x 30 Ø5  | 35,157  | PZ2 | 5                      | 100 | 2.400 |
| TCA206040 | 6 x 40 Ø6  | 48,030  | PZ2 | 10                     | 100 | 1.200 |
| TCA206060 | 6 x 60 Ø6  | 74,693  | PZ2 | 30                     | 100 | 1.200 |
| TCA208060 | 8 x 60 Ø8  | 94,043  | PZ3 | 20                     | 100 | 600   |
| TCA208080 | 8 x 80 Ø8  | 137,910 | PZ3 | 40                     | 100 | 600   |
| TCA208100 | 8 x 100 Ø8 | 145,113 | PZ3 | 60                     | 100 | 600   |

# RE

Rivets

## RE-IN

Panhead. A2 Stainless steel



METAL



| CODE     | SIZE       | €/100  | DRILL Ø | THICKNESS MAX. FIXTURE |     |       |
|----------|------------|--------|---------|------------------------|-----|-------|
| REIN3206 | 3,2 x 6,4  | 18,467 | 3,3     | 0,5 – 3                | 500 | 6.000 |
| REIN3208 | 3,2 x 8    | 19,757 | 3,3     | 3 – 5                  | 500 | 6.000 |
| REIN3212 | 3,2 x 12,7 | 29,113 | 3,3     | 6,5 – 8,5              | 500 | 6.000 |
| REIN3215 | 3,2 x 15,9 | 35,177 | 3,3     | 10,5 – 12,5            | 500 | 6.000 |
| REIN4008 | 4 x 8,5    | 33,163 | 4,1     | 2,5 – 4,5              | 500 | 6.000 |
| REIN4010 | 4 x 10,2   | 35,293 | 4,1     | 4,5 – 6,5              | 500 | 6.000 |
| REIN4012 | 4 x 12     | 39,997 | 4,1     | 6,5 – 8,5              | 500 | 6.000 |
| REIN4016 | 4 x 16     | 48,427 | 4,1     | 10 – 12                | 500 | 3.000 |
| REIN4810 | 4,8 x 10,8 | 48,793 | 5       | 4 – 6                  | 500 | 3.000 |
| REIN4812 | 4,8 x 12   | 53,333 | 5       | 6 – 8                  | 500 | 3.000 |
| REIN4816 | 4,8 x 16   | 65,570 | 5       | 8 – 11                 | 250 | 3.000 |
| REIN4820 | 4,8 x 20,3 | 91,997 | 5       | 11 – 13                | 250 | 3.000 |
| REIN4818 | 4,8 x 18   | 70,107 | 5       | 13 – 15                | 250 | 3.000 |

# SJ

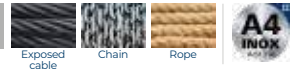
Wire rope clip DIN 741

## NEW SJ-A4

A4 Stainless steel



METAL



| CODE     | METRIC | Ø CABLE  | €/100     |    |       |
|----------|--------|----------|-----------|----|-------|
| SJA42103 | M4     | M4(Ø3)   | 195,100   | 50 | 1.200 |
| SJA42305 | M5     | M5(Ø5)   | 257,000   | 40 | 960   |
| SJA42606 | M5     | M5(Ø6)   | 280,800   | 20 | 900   |
| SJA43008 | M6     | M6(Ø8)   | 295,100   | 20 | 480   |
| SJA43410 | M8     | M8(Ø10)  | 523,500   | 10 | 240   |
| SJA43611 | M8     | M8(Ø11)  | 761,500   | 10 | 240   |
| SJA44414 | M10    | M10(Ø14) | 894,800   | 5  | 225   |
| SJA45016 | M12    | M12(Ø16) | 1.423,000 | 5  | 120   |
| SJA45418 | M12    | M12(Ø18) | 2.141,700 | 5  | 80    |
| SJA46122 | M14    | M14(Ø22) | 3.036,500 | 1  | 45    |
| SJA46525 | M14    | M14(Ø25) | 3.402,900 | 1  | 24    |

# SJ-P

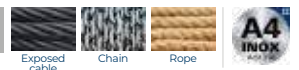
Flat cable clip

## NEW SJ-PS A4

Single. A4 Stainless steel



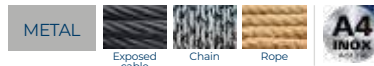
METAL





| CODE       | METRIC | Ø CABLE | €/100   |    |       |
|------------|--------|---------|---------|----|-------|
| SJPSA40403 | M4     | M4(Ø3)  | 99,947  | 30 | 1.350 |
| SJPSA40504 | M5     | M5(Ø4)  | 147,540 | 30 | 1.350 |
| SJPSA40605 | M6     | M6(Ø5)  | 204,650 | 20 | 900   |
| SJPSA40606 | M6     | M6(Ø6)  | 347,430 | 10 | 450   |

Flat cable clip

SJ-P



| CODE       | METRIC | Ø CABLE | €/100          |  |  |
|------------|--------|---------|----------------|---|---|
| SJPDA40403 | M4     | M4(Ø3)  | <b>166,577</b> | 30  | 720   |
| SJPDA40504 | M5     | M5(Ø4)  | <b>271,283</b> | 30  | 720   |
| SJPDA40605 | M5     | M5(Ø5)  | <b>337,913</b> | 20  | 480   |
| SJPDA40606 | M6     | M6(Ø6)  | <b>585,397</b> | 10  | 240   |

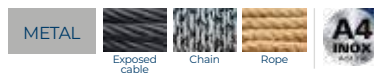
**SJ-PD A4** NEW



Double. A4 Stainless steel



Turnbuckle hook/ring DIN-1480

TS-GA



| CODE     | METRIC | Ø CABLE  | €/100            |  |  |
|----------|--------|----------|------------------|---|---|
| TSGAA405 | M5     | M5(Ø8)   | <b>483,740</b>   | 10  | 240   |
| TSGAA406 | M6     | M6(Ø10)  | <b>678,207</b>   | 10  | 120   |
| TSGAA410 | M10    | M10(Ø14) | <b>1.763,297</b> | 5   | 30  |
| TSGAA412 | M12    | M12(Ø17) | <b>3.323,197</b> | 5   | 30  |

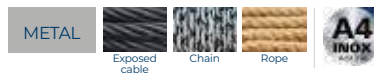
**TS-GA A4** NEW



A4 Stainless steel



Turnbuckle ring/ring DIN-1480

TS-AA



| CODE     | METRIC | Ø CABLE  | €/100            |  |  |
|----------|--------|----------|------------------|---|---|
| TSAAA410 | M10    | M10(Ø14) | <b>1.856,100</b> | 5   | 20  |
| TSAAA412 | M12    | M12(Ø17) | <b>3.498,100</b> | 5   | 20  |
| TSAAA405 | M5     | M5(Ø8)   | <b>509,200</b>   | 10  | 240   |
| TSAAA406 | M6     | M6(Ø10)  | <b>713,900</b>   | 10  | 120   |
| TSAAA408 | M8     | M8(Ø11)  | <b>1.251,700</b> | 10  | 60  |

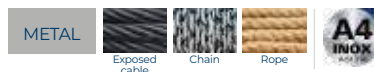
**TS-AA A4** NEW

A4 Stainless steel



Turnbuckle hook/hook DIN-1480

TS-GG



| CODE     | METRIC | Ø CABLE  | €/100            |  |  |
|----------|--------|----------|------------------|---|---|
| TSGGA405 | M5     | M5(Ø7)   | <b>509,200</b>   | 10  | 240   |
| TSGGA406 | M6     | M6(Ø8)   | <b>713,900</b>   | 10  | 120   |
| TSGGA408 | M8     | M8(Ø9.5) | <b>1.251,700</b> | 10  | -   |
| TSGGA410 | M10    | M10(Ø12) | <b>1.856,100</b> | 5   | 20  |
| TSGGA412 | M12    | M12(Ø15) | <b>3.498,100</b> | 5   | 15  |

**TS-GG A4** NEW

A4 Stainless steel



# EV-H Ring nut D-582

**NEW** EV-H A4

A4 Stainless steel

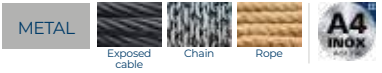


| CODE    | METRIC | Ø CABLE  | €/100            |    |     |
|---------|--------|----------|------------------|----|-----|
| EVHA406 | M6     | M6(Ø15)  | <b>209,410</b>   | 10 | 450 |
| EVHA408 | M8     | M8(Ø20)  | <b>337,913</b>   | 10 | 450 |
| EVHA410 | M10    | M10(Ø25) | <b>642,510</b>   | 10 | 240 |
| EVHA412 | M12    | M12(Ø30) | <b>951,867</b>   | 5  | 120 |
| EVHA414 | M14    | M14(Ø30) | <b>1.427,800</b> | 5  | 120 |
| EVHA416 | M16    | M16(Ø35) | <b>1.665,767</b> | 1  | -   |
| EVHA420 | M20    | M20(Ø38) | <b>2.189,293</b> | 1  | -   |
| EVHA424 | M24    | M24(Ø50) | <b>4.759,333</b> | 1  | 24  |

# EV-M Ring nut D-580

**NEW** EV-M A4

A4 Stainless steel

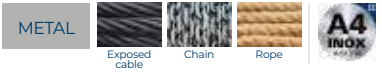


| CODE    | METRIC | Ø CABLE   | €/100            |    |     |
|---------|--------|-----------|------------------|----|-----|
| EVMA406 | M6     | M6 (Ø20)  | <b>223,690</b>   | 10 | 450 |
| EVMA408 | M8     | M8 (Ø20)  | <b>385,507</b>   | 10 | 450 |
| EVMA410 | M10    | M10 (Ø25) | <b>690,103</b>   | 10 | 240 |
| EVMA412 | M12    | M12(Ø30)  | <b>1.047,053</b> | 5  | 120 |
| EVMA414 | M14    | M14 (Ø35) | <b>1.546,783</b> | 5  | 120 |
| EVMA416 | M16    | M16 (Ø35) | <b>1.808,547</b> | 1  | 45  |
| EVMA420 | M20    | M20 (Ø40) | <b>2.617,633</b> | 1  | -   |
| EVMA424 | M24    | M24(Ø50)  | <b>5.711,200</b> | 1  | 12  |

# GR Straight shackle

**NEW** GR-A4

A4 Stainless steel



| CODE   | METRIC | Ø CABLE  | €/100            |    |       |
|--------|--------|----------|------------------|----|-------|
| GRA404 | M4     | M4(Ø08)  | <b>209,410</b>   | 25 | 1.125 |
| GRA405 | M5     | M5(Ø10)  | <b>228,447</b>   | 25 | 1.125 |
| GRA406 | M6     | M6(Ø12)  | <b>261,763</b>   | 25 | 600   |
| GRA408 | M8     | M8(Ø16)  | <b>390,267</b>   | 10 | 240   |
| GRA410 | M10    | M10(Ø19) | <b>628,233</b>   | 10 | 120   |
| GRA412 | M12    | M12(Ø25) | <b>989,940</b>   | 5  | 60    |
| GRA414 | M14    | M14(Ø28) | <b>1.594,377</b> | 5  | 60    |
| GRA416 | M16    | M16(Ø32) | <b>2.284,480</b> | 5  | 40    |
| GRA419 | M20    | M20(Ø38) | <b>4.473,773</b> | 1  | -     |
| GRA425 | M25    | M25(Ø50) | <b>9.613,853</b> | 1  | -     |

# GD Thimble DIN-6899/A

**NEW** GD-A4

A4 Stainless steel

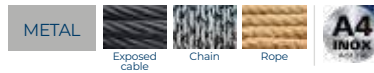


| CODE   | METRIC | Ø CABLE  | €/100          |     |       |
|--------|--------|----------|----------------|-----|-------|
| GDA402 | M2     | M2(Ø10)  | <b>39,503</b>  | 100 | 4.500 |
| GDA403 | M3     | M3(Ø12)  | <b>57,113</b>  | 100 | 4.500 |
| GDA404 | M4     | M4(Ø13)  | <b>66,630</b>  | 50  | 2.250 |
| GDA405 | M5     | M5(Ø14)  | <b>90,427</b>  | 50  | 1.200 |
| GDA406 | M6     | M6(Ø15)  | <b>104,707</b> | 50  | 1.200 |
| GDA408 | M8     | M8(Ø18)  | <b>199,893</b> | 50  | 600   |
| GDA410 | M10    | M10(Ø22) | <b>328,393</b> | 25  | 300   |
| GDA412 | M12    | M12(Ø26) | <b>385,507</b> | 10  | 120   |
| GDA415 | M15    | M15(Ø32) | <b>666,307</b> | 5   | 60    |



Lyre shackle



GI



**GI-A4** NEW

A4 Stainless steel



| CODE    | METRIC | Ø CABLE  | €/100            |  |  |
|---------|--------|----------|------------------|---|---|
| GI A404 | M4     | M4(Ø6)   | <b>266,523</b>   | 25  | 1.125   |
| GI A405 | M5     | M5(Ø8)   | <b>290,320</b>   | 25  | 1.125   |
| GI A406 | M6     | M6(Ø10)  | <b>318,877</b>   | 10  | 450   |
| GI A408 | M8     | M8(Ø12)  | <b>475,933</b>   | 10  | 240   |
| GI A410 | M10    | M10(Ø16) | <b>785,290</b>   | 10  | 120   |
| GI A412 | M12    | M12(Ø28) | <b>1.237,427</b> | 5   | 60  |
| GI A414 | M14    | M14(Ø33) | <b>2.141,700</b> | 5   | 60  |
| GI A416 | M16    | M16(Ø37) | <b>2.926,990</b> | 5   | 30  |

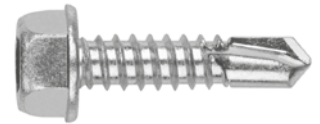
Self-drilling screw with hexagonal head




**DIN-7504-K**



**DIN-7504-K A2**

Screw. A2 Stainless steel



| CODE     | SIZE     | €/100         |  |  |  |
|----------|----------|---------------|---|---|---|
| ABEI4213 | 4,2 x 13 | <b>18,020</b> | 7   | 1.000   | 12.000  |
| ABEI4216 | 4,2 x 16 | <b>20,217</b> | 7   | 1.000   | 8.000   |
| ABEI4219 | 4,2 x 19 | <b>20,953</b> | 7   | 1.000   | 8.000   |
| ABEI4813 | 4,8 x 13 | <b>25,490</b> | 8   | 1.000   | 8.000   |
| ABEI4816 | 4,8 x 16 | <b>24,907</b> | 8   | 500   | 6.000   |
| ABEI4819 | 4,8 x 19 | <b>26,953</b> | 8   | 500   | 6.000   |
| ABEI4825 | 4,8 x 25 | <b>30,180</b> | 8   | 500   | 6.000   |
| ABEI4832 | 4,8 x 32 | <b>35,887</b> | 8   | 500   | 3.000   |
| ABEI5519 | 5,5 x 19 | <b>37,210</b> | 8   | 500   | 6.000   |
| ABEI5522 | 5,5 x 22 | <b>39,703</b> | 8   | 500   | 4.000   |
| ABEI5525 | 5,5 x 25 | <b>42,193</b> | 8   | 500   | 6.000   |
| ABEI6319 | 6,3 x 19 | <b>56,400</b> | 10  | 500   | 3.000   |
| ABEI6325 | 6,3 x 25 | <b>64,167</b> | 10  | 500   | 3.000   |

Bimetal, stainless-steel, self-drilling screw with hexagonal head




**ABE BIMETAL**



**ABE BIMETAL**

Screw






| CODE    | SIZE     | €/100          |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|---------|----------|----------------|---|------------------------|----------------|---|---|
| BIE4825 | 4,8 x 25 | <b>80,163</b>  | 8   | 9                      | 1,75-4,40      | 500   | 6.000   |
| BIE5525 | 5,5 x 25 | <b>91,973</b>  | 8   | 5                      | 1,75-5,25      | 500   | 6.000   |
| BIE5532 | 5,5 x 32 | <b>107,917</b> | 8   | 12                     | 1,75-5,25      | 500   | 3.000   |
| BIE5538 | 5,5 x 38 | <b>112,303</b> | 8   | 18                     | 1,75-5,25      | 500   | 3.000   |
| BIE5550 | 5,5 x 50 | <b>129,620</b> | 8   | 30                     | 1,75-5,25      | 500   | 2.000   |
| BIE5558 | 5,5 x 58 | <b>144,267</b> | 8   | 38                     | 1,75-5,25      | 250   | 1.500   |
| BIE5565 | 5,5 x 65 | <b>150,790</b> | 8   | 45                     | 1,75-5,25      | 250   | 1.500   |
| BIE5580 | 5,5 x 80 | <b>177,900</b> | 8   | 60                     | 1,75-5,25      | 250   | 1.000   |
| BIE6325 | 6,3 x 25 | <b>98,143</b>  | 10  | 7                      | 2,50-6,00      | 500   | 3.000   |



**ABE BIMETAL + ARVUL**

Screw with vulcanized EPDM-steel washer



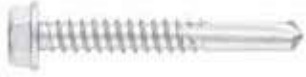
| CODE      | SIZE         | €/100          |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|-----------|--------------|----------------|---|------------------------|----------------|---|---|
| BIE164825 | 4,8 x 25 P16 | <b>94,107</b>  | 8   | 7                      | 1,75-4,40      | 500   | 2.000   |
| BIE165525 | 5,5 x 25 P16 | <b>109,027</b> | 8   | 3                      | 1,75-5,25      | 500   | 2.000   |
| BIE165532 | 5,5 x 32 P16 | <b>126,733</b> | 8   | 10                     | 1,75-5,25      | 500   | 2.000   |
| BIE165538 | 5,5 x 38 P16 | <b>130,457</b> | 8   | 16                     | 1,75-5,25      | 500   | 1.500   |
| BIE165550 | 5,5 x 50 P16 | <b>152,160</b> | 8   | 28                     | 1,75-5,25      | 500   | 1.500   |
| BIE165558 | 5,5 x 58 P16 | <b>163,713</b> | 8   | 36                     | 1,75-5,25      | 250   | 1.500   |
| BIE165565 | 5,5 x 65 P16 | <b>170,383</b> | 8   | 43                     | 1,75-5,25      | 250   | 1.500   |
| BIE165580 | 5,5 x 80 P16 | <b>198,270</b> | 8   | 58                     | 1,75-5,25      | 250   | 1.000   |
| BIE166325 | 6,3 x 25 P16 | <b>115,973</b> | 10  | 5                      | 2,50-6,00      | 500   | 2.000   |

# AUTO BIMETAL

Bimetal, stainless steel, self-drilling screw for beam with hexagonal head

## AUTO BIMETAL

Screw



| CODE      | SIZE      | €/100          |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|-----------|-----------|----------------|---|------------------------|----------------|-----|-------|
| BAUTO5540 | 5,5 x 40  | <b>118,160</b> | 8 | 10                     | 4,00-12,00     | 500 | 3.000 |
| BAUTO5550 | 5,5 x 50  | <b>167,780</b> | 8 | 20                     | 4,00-12,00     | 500 | 3.000 |
| BAUTO5565 | 5,5 x 65  | <b>175,277</b> | 8 | 35                     | 4,00-12,00     | 250 | 1.500 |
| BAUTO5580 | 5,5 x 80  | <b>220,313</b> | 8 | 50                     | 4,00-12,00     | 250 | 1.000 |
| BAUTO5510 | 5,5 x 100 | <b>222,783</b> | 8 | 70                     | 4,00-12,00     | 100 | 600   |

## AUTO BIMETAL + ARVUL

Screw with vulcanized EPDM-steel washer



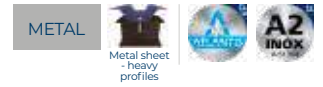
| CODE        | SIZE          | €/100          |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |       |
|-------------|---------------|----------------|---|------------------------|----------------|-----|-------|
| BAUTO165540 | 5,5 x 40 P16  | <b>143,097</b> | 8 | 8                      | 4,00-12,00     | 500 | 1.500 |
| BAUTO165550 | 5,5 x 50 P16  | <b>193,447</b> | 8 | 18                     | 4,00-12,00     | 500 | 1.500 |
| BAUTO165565 | 5,5 x 65 P16  | <b>199,873</b> | 8 | 33                     | 4,00-12,00     | 250 | 1.500 |
| BAUTO165580 | 5,5 x 80 P16  | <b>234,923</b> | 8 | 48                     | 4,00-12,00     | 250 | 1.000 |
| BAUTO165510 | 5,5 x 100 P16 | <b>247,673</b> | 8 | 68                     | 4,00-12,00     | 100 | 600   |

# PS

Self-drilling screw with hexagonal head for sandwich panels

## PS 3 + ARVUL A2

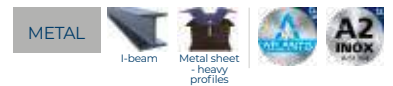
Standard drill point #3 with ATLANTIS C4-M coating and A2 stainless washer



| CODE      | SIZE                | €/100          |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |     |     |
|-----------|---------------------|----------------|---|------------------------|----------------|-----|-----|
| PS1955195 | 5,5 / 6,3 x 195 P19 | <b>272,777</b> | 8 | 130 - 185              | 1,50-6,00      | 200 | 400 |
| PS1955230 | 5,5 / 6,3 x 230 P19 | <b>382,910</b> | 8 | 166 - 215              | 1,50-6,00      | 200 | -   |

## PS 5 + ARVUL A2

Standard drill point #5 with ATLANTIS C4-M coating and A2 stainless washer



| CODE       | SIZE                | €/100          |   | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |     |
|------------|---------------------|----------------|---|------------------------|----------------|--|-----|
| PSL1955255 | 5,5 / 6,3 x 255 P19 | <b>533,260</b> | 8 | 170 - 210              | 6,00-12,00     |  | 200 |
| PSL1955285 | 5,5 / 6,3 x 285 P19 | <b>937,147</b> | 8 | 200 - 250              | 6,00-12,00     |  | 200 |

# ARVUL

Vulcanized EPDM-steel washer

## ARVUL A2

A2 Stainless steel



| CODE     | SIZE | €/100         |  | WASHER INNER Ø |       |        |
|----------|------|---------------|--|----------------|-------|--------|
| ARINO14  | P14  | <b>11,267</b> |  | 2.5            | 1.000 | 12.000 |
| ARINO16  | P16  | <b>12,737</b> |  | 2.7            | 1.000 | 6.000  |
| ARINO18  | P18  | <b>16,030</b> |  | 3.2            | 1.000 | 6.000  |
| ARINO25  | P25  | <b>29,640</b> |  | 3.3            | 500   | 3.000  |
| ARINOM30 | P30  | <b>42,530</b> |  | 6.3            | 500   | 1.500  |

Umbrella washer



ARPAR

METAL



ARPAR A2 <sup>NEW</sup>

A2 Stainless steel

| CODE      | SIZE | €/100  |  |  |
|-----------|------|--------|---|---|
| ARPARA225 | P22  | 46,477 | 250   | 1.500   |



Panhead self-drilling screw




DIN-7504-N

STAINLESS STEEL



DIN-7504-N HP A2

A2 Stainless steel. PH recess

| CODE      | SIZE      | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|-----------|-----------|--------|---|------------------------|----------------|---|---|
| ABRA23509 | 3,5 x 9,5 | 12,170 | PH2   | 2,85                   | 0,70-2,25      | 1.000   | 24.000  |
| ABRA23513 | 3,5 x 13  | 14,683 | PH2   | 6,2                    | 0,70-2,25      | 500   | 12.000  |
| ABRA23519 | 3,5 x 19  | 17,990 | PH2   | 12,1                   | 0,70-2,25      | 500   | 12.000  |
| ABRA24213 | 4,2 x 13  | 17,197 | PH2   | 4,3                    | 1,75-3,00      | 500   | 12.000  |
| ABRA24216 | 4,2 x 16  | 19,263 | PH2   | 7,3                    | 1,75-3,00      | 500   | 12.000  |
| ABRA24219 | 4,2 x 19  | 20,500 | PH2   | 10,3                   | 1,75-3,00      | 500   | 12.000  |
| ABRA24225 | 4,2 x 25  | 21,533 | PH2   | 16,3                   | 1,75-3,00      | 250   | 6.000   |
| ABRA24816 | 4,8 x 16  | 26,977 | PH2   | 5,5                    | 1,75-4,40      | 250   | 6.000   |
| ABRA24819 | 4,8 x 19  | 26,427 | PH2   | 8,7                    | 1,75-4,40      | 250   | 6.000   |
| ABRA24825 | 4,8 x 25  | 29,360 | PH2   | 14,7                   | 1,75-4,40      | 250   | 6.000   |
| ABRA24832 | 4,8 x 32  | 34,367 | PH2   | 21,5                   | 1,75-4,40      | 250   | 4.000   |
| ABRA24838 | 4,8 x 38  | 37,623 | PH2   | 27,5                   | 1,75-4,40      | 250   | 3.000   |
| ABRA24850 | 4,8 x 50  | 44,363 | PH2   | 39,5                   | 1,75-4,40      | 250   | 3.000   |



Self-drilling screw, blind-rivet head and PH recess




RS

STAINLESS STEEL



RS-A2

Stainless Steel A2

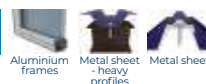
| CODE     | SIZE      | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|----------|-----------|--------|---|------------------------|----------------|---|---|
| RSA23509 | 3,5 x 9,5 | 16,293 | PH2   | 2,8                    | 0,75 - 2,25    | 500   | 22.500  |
| RSA24213 | 4,2 x 13  | 23,473 | PH2   | 7,3                    | 1,75 - 3       | 500   | 22.500  |
| RSA24216 | 4,2 x 16  | 25,003 | PH2   | 10,3                   | 1,75 - 3       | 500   | 12.000  |
| RSA24219 | 4,2 x 19  | 26,513 | PH2   | 16,3                   | 1,75 - 3       | 500   | 12.000  |
| RSA24816 | 4,8 x 16  | 32,807 | PH2   | 5,5                    | 1,75 - 4,4     | 250   | 11.250  |
| RSA24819 | 4,8 x 19  | 35,160 | PH2   | 8,7                    | 1,75 - 4,4     | 250   | 11.250  |
| RSA24825 | 4,8 x 25  | 39,657 | PH2   | 14,7                   | 1,75 - 4,4     | 250   | 6.000   |



Extra low head self-drilling screw and Ph recess

BCP

STAINLESS STEEL



BCP A2

A2 Stainless steel. PH recess

| CODE      | SIZE     | €/100  |  | THICKNESS MAX. FIXTURE | DRILL CAPACITY |  |  |
|-----------|----------|--------|---|------------------------|----------------|---|---|
| BCPA24214 | 4,2 x 14 | 23,523 | PH2   | 6                      | 0,70-2,00      | 500   | 12.000  |
| BCPA24223 | 4,2 x 23 | 32,470 | PH2   | 6                      | -              | 500   | 12.000  |

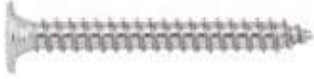


# CP

Extra low head self-tapping screw

## CP-A2

A2 Stainless steel. PH recess



STAINLESS STEEL



| CODE      | SIZE     | €/100         |     | THICKNESS MAX. FIXTURE |     |        |
|-----------|----------|---------------|-----|------------------------|-----|--------|
| TCPA24213 | 4,2 x 13 | <b>9,027</b>  | PH2 | 6                      | 500 | 12.000 |
| TCPA24222 | 4,2 x 22 | <b>17,510</b> | PH2 | 15                     | 500 | 12.000 |
| TCPA24232 | 4,2 x 32 | <b>22,427</b> | PH2 | 25                     | 500 | 6.000  |

# TEX

High-performance chipboard screw

## TEX-A2

A2 Stainless steel. Tx recess



STAINLESS STEEL



| CODE       | SIZE   | €/100         |      |     |       |
|------------|--------|---------------|------|-----|-------|
| TEXA250050 | 5 x 50 | <b>28,183</b> | TX25 | 250 | 3.000 |
| TEXA250060 | 5 x 60 | <b>33,860</b> | TX25 | 100 | 2.400 |
| TEXA250070 | 5 x 70 | <b>38,380</b> | TX25 | 100 | 2.400 |

Blister

| CODE        | SIZE   | €/BAG        | PCS | BAGS |
|-------------|--------|--------------|-----|------|
| BZTXA250050 | 5 x 50 | <b>2,302</b> | 4   | 20   |
| BZTXA250060 | 5 x 60 | <b>2,302</b> | 4   | 20   |
| BZTXA250070 | 5 x 70 | <b>2,302</b> | 2   | 20   |

Window box

| CODE        | SIZE   | €/BOX        | PCS | BOXES |
|-------------|--------|--------------|-----|-------|
| VTEXA250050 | 5 x 50 | <b>6,596</b> | 20  | 8     |
| VTEXA250060 | 5 x 60 | <b>7,923</b> | 20  | 8     |
| VTEXA250070 | 5 x 70 | <b>8,987</b> | 20  | 8     |



# TP

Countersunk head chipboard screw

## TP-A2

Stainless-steel A2. PZ recess



STAINLESS STEEL






| CODE      | SIZE     | €/100         |     |     |       |
|-----------|----------|---------------|-----|-----|-------|
| TPA230016 | 3 x 16   | <b>4,947</b>  | PZ1 | 200 | 9.000 |
| TPA230025 | 3 x 25   | <b>6,323</b>  | PZ1 | 200 | 9.000 |
| TPA235020 | 3,5 x 20 | <b>8,347</b>  | PZ2 | 200 | 9.000 |
| TPA235025 | 3,5 x 25 | <b>9,013</b>  | PZ2 | 200 | 9.000 |
| TPA235030 | 3,5 x 30 | <b>11,233</b> | PZ2 | 200 | 9.000 |
| TPA235040 | 3,5 x 40 | <b>15,967</b> | PZ2 | 200 | 4.800 |
| TPA240030 | 4 x 30   | <b>13,653</b> | PZ2 | 200 | 4.800 |
| TPA240040 | 4 x 40   | <b>16,120</b> | PZ2 | 200 | 4.800 |
| TPA240050 | 4 x 50   | <b>25,303</b> | PZ2 | 200 | 4.800 |
| TPA245030 | 4,5 x 30 | <b>16,033</b> | PZ2 | 200 | 4.800 |
| TPA245050 | 4,5 x 50 | <b>25,610</b> | PZ2 | 200 | 2.400 |
| TPA250050 | 5 x 50   | <b>32,297</b> | PZ2 | 200 | 2.400 |
| TPA250070 | 5 x 70   | <b>44,013</b> | PZ2 | 200 | 2.400 |

Coach wood screw with hexagonal head

# DIN-571

STAINLESS STEEL   

| CODE        | SIZE    | €/100          |  |  |  |
|-------------|---------|----------------|---|---|---|
| • TBA206040 | 6 x 40  | <b>32,943</b>  | 10  | 100   | 2.400   |
| • TBA206050 | 6 x 50  | <b>39,190</b>  | 10  | 100   | 1.200   |
| • TBA206060 | 6 x 60  | <b>44,567</b>  | 10  | 100   | 1.200   |
| • TBA206070 | 6 x 70  | <b>50,387</b>  | 10  | 100   | 1.200   |
| • TBA208050 | 8 x 50  | <b>73,097</b>  | 13  | 100   | 1.200   |
| • TBA208060 | 8 x 60  | <b>80,443</b>  | 13  | 100   | 1.200   |
| • TBA208070 | 8 x 70  | <b>90,893</b>  | 13  | 100   | 600   |
| • TBA208080 | 8 x 80  | <b>101,767</b> | 13  | 100   | 600   |
| • TBA210080 | 10 x 80 | <b>172,213</b> | 17  | 100   | 400   |

• Non-assessed sizes

## DIN-571 A2




A2 Stainless steel



Tamperproof screw with TX recess

# INV

STAINLESS STEEL   

| CODE         | SIZE   | €/100          |  |  |  |
|--------------|--------|----------------|---|---|---|
| • INVVA27050 | 7 x 50 | <b>121,530</b> | TX40  | 100   | 1.200   |
| • INVVA27060 | 7 x 60 | <b>140,883</b> | TX40  | 100   | 600   |
| • INVVA27070 | 7 x 70 | <b>144,337</b> | TX40  | 100   | 600   |
| • INVVA27080 | 7 x 80 | <b>159,360</b> | TX40  | 100   | 600   |

• Non-assessed sizes

## INV A2

A2 Stainless steel



# DIN-933

Hexagonal head bolt 8.8. Full thread

## DIN-933 A2

A2 Stainless steel

STAINLESS  
STEEL



| CODE        | SIZE     | €/100   |    |     |        | CODE        | SIZE      | €/100   |    |     |     |
|-------------|----------|---------|----|-----|--------|-------------|-----------|---------|----|-----|-----|
| D933IM04010 | M4 x 10  | 10,247  | 7  | 500 | 12.000 | D933IM10040 | M10 x 40  | 94,637  | 17 | 200 | -   |
| D933IM04016 | M4 x 16  | 12,270  | 7  | 500 | 12.000 | D933IM10050 | M10 x 50  | 112,740 | 17 | 200 | -   |
| D933IM04020 | M4 x 20  | 14,120  | 7  | 500 | 8.000  | D933IM10060 | M10 x 60  | 129,103 | 17 | 100 | 600 |
| D933IM04025 | M4 x 25  | 15,227  | 7  | 500 | 8.000  | D933IM10070 | M10 x 70  | 145,627 | 17 | 100 | 400 |
| D933IM04030 | M4 x 30  | 17,443  | 7  | 500 | 6.000  | D933IM10080 | M10 x 80  | 171,350 | 17 | 100 | 400 |
| D933IM04035 | M4 x 35  | 21,410  | 7  | 250 | 6.000  | D933IM10090 | M10 x 90  | 193,050 | 17 | 50  | 300 |
| D933IM04040 | M4 x 40  | 23,807  | 7  | 250 | 6.000  | D933IM10100 | M10 x 100 | 217,823 | 17 | 50  | 300 |
| D933IM05010 | M5 x 10  | 10,703  | 8  | 500 | 8.000  | D933IM12020 | M12 x 20  | 117,413 | 19 | 100 | 600 |
| D933IM05016 | M5 x 16  | 12,550  | 8  | 500 | -      | D933IM12030 | M12 x 30  | 122,127 | 19 | 100 | 600 |
| D933IM05020 | M5 x 20  | 14,210  | 8  | 500 | 6.000  | D933IM12040 | M12 x 40  | 137,637 | 19 | 100 | 400 |
| D933IM05025 | M5 x 25  | 16,333  | 8  | 500 | 4.000  | D933IM12050 | M12 x 50  | 158,837 | 19 | 100 | 400 |
| D933IM05030 | M5 x 30  | 18,917  | 8  | 500 | 4.000  | D933IM12060 | M12 x 60  | 181,040 | 19 | 100 | 400 |
| D933IM05035 | M5 x 35  | 20,950  | 8  | 250 | 3.000  | D933IM12070 | M12 x 70  | 203,477 | 19 | 100 | -   |
| D933IM05040 | M5 x 40  | 23,530  | 8  | 250 | 3.000  | D933IM12080 | M12 x 80  | 254,237 | 19 | 50  | 300 |
| D933IM05050 | M5 x 50  | 28,793  | 8  | 250 | 3.000  | D933IM12090 | M12 x 90  | 278,347 | 19 | 50  | 300 |
| D933IM06010 | M6 x 10  | 17,957  | 10 | 250 | 6.000  | D933IM12100 | M12 x 100 | 302,463 | 19 | 25  | 150 |
| D933IM06016 | M6 x 16  | 19,027  | 10 | 250 | 4.000  | D933IM14030 | M14 x 30  | 230,133 | 22 | 50  | 300 |
| D933IM06020 | M6 x 20  | 22,040  | 10 | 250 | 4.000  | D933IM14040 | M14 x 40  | 252,050 | 22 | 50  | 300 |
| D933IM06025 | M6 x 25  | 22,900  | 10 | 250 | 3.000  | D933IM14050 | M14 x 50  | 287,120 | 22 | 50  | 300 |
| D933IM06030 | M6 x 30  | 26,607  | 10 | 250 | 3.000  | D933IM14060 | M14 x 60  | 326,570 | 22 | 50  | 200 |
| D933IM06035 | M6 x 35  | 30,083  | 10 | 250 | 2.000  | D933IM14070 | M14 x 70  | 363,830 | 22 | 50  | 200 |
| D933IM06040 | M6 x 40  | 33,253  | 10 | 250 | 2.000  | D933IM14080 | M14 x 80  | 390,803 | 22 | 25  | 150 |
| D933IM06050 | M6 x 50  | 39,467  | 10 | 250 | 1.500  | D933IM14100 | M14 x 100 | 536,020 | 22 | 25  | 150 |
| D933IM08016 | M8 x 16  | 35,107  | 13 | 200 | 1.600  | D933IM16030 | M16 x 30  | 254,127 | 24 | 50  | 300 |
| D933IM08020 | M8 x 20  | 38,053  | 13 | 200 | 1.600  | D933IM16040 | M16 x 40  | 263,850 | 24 | 50  | 200 |
| D933IM08025 | M8 x 25  | 42,957  | 13 | 200 | 1.600  | D933IM16050 | M16 x 50  | 300,910 | 24 | 50  | 200 |
| D933IM08030 | M8 x 30  | 47,760  | 13 | 200 | 1.200  | D933IM16060 | M16 x 60  | 342,337 | 24 | 50  | 200 |
| D933IM08035 | M8 x 35  | 52,550  | 13 | 200 | 1.200  | D933IM16070 | M16 x 70  | 381,587 | 24 | 25  | 150 |
| D933IM08040 | M8 x 40  | 58,007  | 13 | 200 | 1.200  | D933IM16080 | M16 x 80  | 423,013 | 24 | 25  | 150 |
| D933IM08050 | M8 x 50  | 69,797  | 13 | 200 | 800    | D933IM16090 | M16 x 90  | 499,193 | 24 | 25  | 150 |
| D933IM08060 | M8 x 60  | 79,660  | 13 | 200 | 800    | D933IM16100 | M16 x 100 | 540,750 | 24 | 25  | 100 |
| D933IM08070 | M8 x 70  | 95,460  | 13 | 200 | 800    | D933IM18030 | M18 x 30  | 508,053 | 27 | 25  | 100 |
| D933IM08080 | M8 x 80  | 109,107 | 13 | 100 | 600    | D933IM18040 | M18 x 40  | 537,343 | 27 | 25  | 200 |
| D933IM08090 | M8 x 90  | 120,883 | 13 | 100 | 600    | D933IM18050 | M18 x 50  | 586,980 | 27 | 25  | 150 |
| D933IM08100 | M8 x 100 | 135,633 | 13 | 100 | 600    | D933IM18060 | M18 x 60  | 656,030 | 27 | 25  | 150 |
| D933IM10020 | M10 x 20 | 71,523  | 17 | 200 | 800    | D933IM18070 | M18 x 70  | 729,387 | 27 | 25  | 100 |
| D933IM10025 | M10 x 25 | 75,013  | 17 | 200 | 800    | D933IM18080 | M18 x 80  | 798,460 | 27 | 25  | 100 |
| D933IM10030 | M10 x 30 | 82,200  | 17 | 200 | 800    | D933IM18090 | M18 x 90  | 867,520 | 27 | 25  | 100 |
| D933IM10035 | M10 x 35 | 89,617  | 17 | 200 | 800    | D933IM18100 | M18 x 100 | 936,573 | 27 | 25  | 100 |

Blister

| CODE      | SIZE    | €/BAG | PCS | BAGS |
|-----------|---------|-------|-----|------|
| BZ3I04010 | M4 x 10 | 2,302 | 6   | 20   |
| BZ3I04016 | M4 x 16 | 2,302 | 6   | 20   |
| BZ3I04020 | M4 x 20 | 2,302 | 6   | 20   |
| BZ3I04030 | M4 x 30 | 2,302 | 6   | 20   |
| BZ3I04040 | M4 x 40 | 2,302 | 6   | 20   |
| BZ3I05010 | M5 x 10 | 2,302 | 6   | 20   |
| BZ3I05016 | M5 x 16 | 2,302 | 6   | 20   |
| BZ3I05020 | M5 x 20 | 2,302 | 6   | 20   |
| BZ3I05030 | M5 x 30 | 2,302 | 6   | 20   |
| BZ3I05040 | M5 x 40 | 2,302 | 6   | 20   |
| BZ3I05050 | M5 x 50 | 2,302 | 6   | 20   |
| BZ3I06016 | M6 x 16 | 2,302 | 6   | 20   |
| BZ3I06020 | M6 x 20 | 2,302 | 6   | 20   |
| BZ3I06025 | M6 x 25 | 2,302 | 6   | 20   |
| BZ3I06030 | M6 x 30 | 2,302 | 6   | 20   |
| BZ3I06040 | M6 x 40 | 2,302 | 6   | 20   |
| BZ3I06050 | M6 x 50 | 2,302 | 6   | 20   |
| BZ3I08016 | M8 x 16 | 2,302 | 4   | 20   |
| BZ3I08020 | M8 x 20 | 2,302 | 4   | 20   |
| BZ3I08025 | M8 x 25 | 2,302 | 4   | 20   |
| BZ3I08030 | M8 x 30 | 2,302 | 4   | 20   |

Blister

| CODE      | SIZE     | €/BAG | PCS | BAGS |
|-----------|----------|-------|-----|------|
| BZ3I08040 | M8 x 40  | 2,302 | 4   | 20   |
| BZ3I08050 | M8 x 50  | 2,302 | 4   | 20   |
| BZ3I08060 | M8 x 60  | 2,302 | 4   | 20   |
| BZ3I10020 | M10 x 20 | 2,302 | 2   | 20   |
| BZ3I10030 | M10 x 30 | 2,302 | 2   | 20   |
| BZ3I10040 | M10 x 40 | 2,302 | 2   | 20   |

Window box

| CODE        | SIZE    | €/BOX | PCS | BOXES |
|-------------|---------|-------|-----|-------|
| VD933I04010 | M4 x 10 | 5,617 | 40  | 8     |
| VD933I04016 | M4 x 16 | 6,729 | 40  | 8     |
| VD933I04020 | M4 x 20 | 7,460 | 40  | 8     |
| VD933I04030 | M4 x 30 | 7,175 | 30  | 8     |
| VD933I04040 | M4 x 40 | 7,859 | 25  | 8     |
| VD933I05010 | M5 x 10 | 5,874 | 40  | 8     |
| VD933I05016 | M5 x 16 | 6,885 | 40  | 8     |
| VD933I05020 | M5 x 20 | 7,797 | 40  | 8     |
| VD933I05030 | M5 x 30 | 5,187 | 20  | 8     |
| VD933I05040 | M5 x 40 | 6,453 | 20  | 8     |
| VD933I05050 | M5 x 50 | 4,145 | 10  | 8     |

Window box

| CODE        | SIZE     | €/BOX  | PCS | BOXES |
|-------------|----------|--------|-----|-------|
| VD933I06010 | M6 x 10  | 7,388  | 30  | 8     |
| VD933I06016 | M6 x 16  | 7,536  | 30  | 8     |
| VD933I06020 | M6 x 20  | 8,733  | 30  | 8     |
| VD933I06025 | M6 x 25  | 7,559  | 25  | 8     |
| VD933I06030 | M6 x 30  | 8,785  | 25  | 8     |
| VD933I06040 | M6 x 40  | 6,843  | 15  | 8     |
| VD933I06050 | M6 x 50  | 5,412  | 10  | 8     |
| VD933I08016 | M8 x 16  | 9,630  | 20  | 8     |
| VD933I08020 | M8 x 20  | 10,434 | 20  | 8     |
| VD933I08025 | M8 x 25  | 11,780 | 20  | 8     |
| VD933I08030 | M8 x 30  | 9,826  | 15  | 8     |
| VD933I08040 | M8 x 40  | 7,954  | 10  | 8     |
| VD933I08050 | M8 x 50  | 9,569  | 10  | 8     |
| VD933I08060 | M8 x 60  | 10,925 | 10  | 8     |
| VD933I10020 | M10 x 20 | 9,807  | 10  | 8     |
| VD933I10030 | M10 x 30 | 11,274 | 10  | 8     |
| VD933I10040 | M10 x 40 | 12,977 | 10  | 8     |
| VD933I10050 | M10 x 50 | 15,459 | 10  | 8     |
| VD933I10060 | M10 x 60 | 17,701 | 10  | 8     |





Hexagonal flanged bolt with serration 8.8

# DIN-6921

METAL



| CODE       | SIZE    | €/100          | INSTALLATION KEY |  |  |
|------------|---------|----------------|------------------|---|---|
| 6921108020 | M8 x 20 | <b>50,523</b>  | 13               | 200   | 2.400   |
| 6921108050 | M8 x 50 | <b>80,817</b>  | 13               | 100   | 600   |
| 6921108070 | M8 x 70 | <b>117,303</b> | 13               | 100   | 600   |

## DIN-6921 A2

Screw DIN-6921. Hexagonal flanged bolt with serration. Stainless steel A2





Round head screw with square neck. Stainless steel A2

# DIN-603

METAL



| CODE       | SIZE    | €/100         |  |  |
|------------|---------|---------------|---|---|
| D603108016 | M8 x 16 | <b>42,047</b> | 200   | 2.400   |





Available in different coatings. Ask for price and delivery time.

Hexagonal nut

# DIN-934

STAINLESS STEEL



| CODE     | SIZE | €/100          | INSTALLATION KEY |  |  |
|----------|------|----------------|------------------|---|---|
| D934IM04 | M4   | <b>4,563</b>   | 7                | 500   | 22.500  |
| D934IM05 | M5   | <b>5,273</b>   | 8                | 500   | 12.000  |
| D934IM06 | M6   | <b>8,707</b>   | 10               | 500   | 12.000  |
| D934IM08 | M8   | <b>17,653</b>  | 13               | 250   | 4.000   |
| D934IM10 | M10  | <b>39,383</b>  | 17               | 250   | 2.000   |
| D934IM12 | M12  | <b>57,743</b>  | 19               | 250   | 1.500   |
| D934IM14 | M14  | <b>82,997</b>  | 22               | 100   | 800   |
| D934IM16 | M16  | <b>116,470</b> | 24               | 100   | 600   |
| D934IM18 | M18  | <b>185,243</b> | 27               | 100   | 600   |
| D934IM20 | M20  | <b>243,233</b> | 30               | 50  | 400   |
| D934IM22 | M22  | <b>336,203</b> | 32               | 50  | 300   |
| D934IM24 | M24  | <b>437,060</b> | 36               | 25  | 200   |

## DIN-934 A2

A2 Stainless steel



 Blister

 Window box

| CODE      | SIZE | €/BAG        | PCS | BAGS |
|-----------|------|--------------|-----|------|
| BZ934IM04 | M4   | <b>2,302</b> | 10  | 20   |
| BZ934IM05 | M5   | <b>2,302</b> | 8   | 20   |
| BZ934IM06 | M6   | <b>2,302</b> | 8   | 20   |
| BZ934IM08 | M8   | <b>2,302</b> | 6   | 20   |
| BZ934IM10 | M10  | <b>2,302</b> | 5   | 15   |

| CODE      | SIZE | €/BOX        | PCS | BOXES |
|-----------|------|--------------|-----|-------|
| VD934IM04 | M4   | <b>3,090</b> | 50  | 8     |
| VD934IM05 | M5   | <b>3,575</b> | 50  | 8     |
| VD934IM06 | M6   | <b>5,308</b> | 50  | 8     |
| VD934IM08 | M8   | <b>6,457</b> | 30  | 8     |
| VD934IM10 | M10  | <b>9,605</b> | 20  | 8     |

# DIN-985

Nylon insert nut

## DIN-985 A2

A2 Stainless steel

STAINLESS STEEL **A2 INOX**



| CODE     | SIZE | €/100     | INSTALLATION KEY |     |        |
|----------|------|-----------|------------------|-----|--------|
| D985IM04 | M4   | 8,450     | 7                | 500 | 22.500 |
| D985IM05 | M5   | 9,097     | 8                | 500 | 8.000  |
| D985IM06 | M6   | 12,853    | 10               | 500 | 8.000  |
| D985IM08 | M8   | 25,340    | 13               | 250 | 4.000  |
| D985IM10 | M10  | 53,960    | 17               | 250 | 2.000  |
| D985IM12 | M12  | 83,880    | 19               | 100 | 1.200  |
| D985IM14 | M14  | 149,947   | 22               | 100 | 800    |
| D985IM16 | M16  | 181,737   | 24               | 50  | 600    |
| D985IM18 | M18  | 415,913   | 27               | 50  | 400    |
| D985IM20 | M20  | 533,417   | 30               | 25  | 300    |
| D985IM22 | M22  | 1.207,343 | 32               | 25  | 300    |
| D985IM24 | M24  | 1.627,850 | 36               | 25  | 150    |

Blister

| CODE      | SIZE | €/BAG | PCS PER BAG | BAGS |
|-----------|------|-------|-------------|------|
| BZ985IM04 | M4   | 2,302 | 10          | 20   |
| BZ985IM05 | M5   | 2,302 | 8           | 20   |
| BZ985IM06 | M6   | 2,302 | 8           | 20   |
| BZ985IM08 | M8   | 2,302 | 6           | 20   |
| BZ985IM10 | M10  | 2,302 | 5           | 15   |

Window box

| CODE      | SIZE | €/BOX  | PCS | BOXES |
|-----------|------|--------|-----|-------|
| VD985IM04 | M4   | 5,149  | 50  | 8     |
| VD985IM05 | M5   | 5,548  | 50  | 8     |
| VD985IM06 | M6   | 7,838  | 50  | 8     |
| VD985IM08 | M8   | 9,269  | 30  | 8     |
| VD985IM10 | M10  | 13,160 | 20  | 8     |

# DIN-6923

Hexagonal flange nut with serration

## DIN-6923 A2

DIN-6923 Hexagonal flange nut with serration. Stainless steel A2

METAL **A2 INOX**



| CODE      | SIZE | €/100  | INSTALLATION KEY |     |       |
|-----------|------|--------|------------------|-----|-------|
| D6923IM08 | M8   | 24,660 | 13               | 250 | 3.000 |
| D6923IM10 | M10  | 47,753 | 15               | 250 | 3.000 |
| D6923IM12 | M12  | 70,740 | 18               | 250 | 1.500 |

# DIN-125

Plain washer

## DIN-125 A2

A2 Stainless steel

STAINLESS STEEL **A2 INOX**



| CODE     | SIZE | €/100   |     |        |
|----------|------|---------|-----|--------|
| D125IM04 | M4   | 1,453   | 500 | 22.500 |
| D125IM05 | M5   | 1,917   | 500 | 22.500 |
| D125IM06 | M6   | 3,480   | 500 | 22.500 |
| D125IM08 | M8   | 5,967   | 250 | 11.250 |
| D125IM10 | M10  | 11,397  | 250 | 6.000  |
| D125IM12 | M12  | 20,273  | 250 | 3.000  |
| D125IM14 | M14  | 31,777  | 200 | 2.400  |
| D125IM16 | M16  | 35,087  | 100 | 2.400  |
| D125IM18 | M18  | 52,030  | 100 | 1.600  |
| D125IM20 | M20  | 55,253  | 50  | 1.200  |
| D125IM22 | M22  | 65,523  | 50  | 1.200  |
| D125IM24 | M24  | 114,640 | 50  | 600    |

Blister

| CODE      | SIZE | €/BAG | PCS PER BAG | BAGS |
|-----------|------|-------|-------------|------|
| BZ125IM04 | M4   | 2,302 | 10          | 20   |
| BZ125IM05 | M5   | 2,302 | 8           | 20   |
| BZ125IM06 | M6   | 2,302 | 8           | 20   |
| BZ125IM08 | M8   | 2,302 | 6           | 20   |
| BZ125IM10 | M10  | 2,302 | 5           | 20   |

Window box

| CODE      | SIZE | €/BOX | PCS | BOXES |
|-----------|------|-------|-----|-------|
| VD125IM04 | M4   | 3,059 | 100 | 8     |
| VD125IM05 | M5   | 3,069 | 75  | 8     |
| VD125IM06 | M6   | 3,879 | 75  | 8     |
| VD125IM08 | M8   | 4,044 | 50  | 8     |
| VD125IM10 | M10  | 6,742 | 50  | 8     |

Spring washer



# DIN-127

METAL



## DIN-127 A2

Grower spring washer DIN-127.  
Stainless steel A2

| CODE     | SIZE | €/100         |  |  |
|----------|------|---------------|---|---|
| D127IM08 | M8   | <b>4,530</b>  | 200   | 9,000   |
| D127IM10 | M10  | <b>7,237</b>  | 100   | 4,500   |
| D127IM12 | M12  | <b>10,923</b> | 100   | 4,500   |



Reinforced pipe clamp M8 + M10

# AB-RE



02 Technical info P. 614

STAINLESS STEEL



## AB-RE A2

A2 Stainless steel

| CODE      | SIZE         | ØD(mm)    | €/100            | SIZE IN INCHES | MAXIMUN LOAD |  |  |
|-----------|--------------|-----------|------------------|----------------|--------------|---|---|
| ABREA2018 | 18 (M8+M10)  | 15 - 18   | <b>332,580</b>   | 3/8"           | 150          | 50  | 300   |
| ABREA2022 | 22 (M8+M10)  | 20 - 24   | <b>349,760</b>   | 1/2"           | 150          | 50  | 200   |
| ABREA2028 | 28 (M8+M10)  | 26 - 30   | <b>383,987</b>   | 3/4"           | 150          | 50  | 150   |
| ABREA2035 | 35 (M8+M10)  | 32 - 36   | <b>401,780</b>   | 1"             | 150          | 50  | 100   |
| ABREA2040 | 40 (M8+M10)  | 36 - 42   | <b>425,290</b>   | 1 1/4"         | 150          | 25  | 100   |
| ABREA2048 | 48 (M8+M10)  | 47 - 50   | <b>448,373</b>   | 1 1/2"         | 150          | 25  | 100   |
| ABREA2054 | 54 (M8+M10)  | 51 - 55   | <b>473,533</b>   | -              | 150          | 25  | 75  |
| ABREA2060 | 60 (M8+M10)  | 60 - 64   | <b>503,620</b>   | 2"             | 150          | 25  | 75  |
| ABREA2075 | 75 (M8+M10)  | 75 - 80   | <b>570,457</b>   | 2 1/2"         | 150          | 25  | 50  |
| ABREA2090 | 90 (M8+M10)  | 87 - 92   | <b>656,360</b>   | 3"             | 150          | 25  | -   |
| ABREA2110 | 110 (M8+M10) | 106 - 112 | <b>710,090</b>   | -              | 150          | 25  | -   |
| ABREA2115 | 115 (M8+M10) | 114 - 119 | <b>740,700</b>   | 4"             | 150          | 25  | -   |
| ABREA2125 | 125 (M8+M10) | 124 - 131 | <b>794,473</b>   | 4 1/2"         | 150          | 25  | -   |
| ABREA2140 | 140 (M8+M10) | 133 - 140 | <b>878,120</b>   | 5"             | 150          | 25  | -   |
| ABREA2160 | 160 (M8+M10) | 159 - 163 | <b>1.002,177</b> | 6"             | 150          | 25  | -   |
| ABREA2200 | 200 (M8+M10) | 199 - 212 | <b>1.397,923</b> | -              | 150          | 25  | -   |





02 Technical info P. 614

STAINLESS STEEL



## AB-RE A4

A4 Stainless steel

| CODE      | SIZE         | ØD(mm)    | €/100            | SIZE IN INCHES | MAXIMUN LOAD |  |  |
|-----------|--------------|-----------|------------------|----------------|--------------|---|---|
| ABREA4018 | 18 (M8+M10)  | 15 - 18   | <b>434,490</b>   | 3/8"           | 150          | 50  | 300   |
| ABREA4022 | 22 (M8+M10)  | 20 - 24   | <b>459,373</b>   | 1/2"           | 150          | 50  | 200   |
| ABREA4028 | 28 (M8+M10)  | 26 - 30   | <b>490,617</b>   | 3/4"           | 150          | 50  | 150   |
| ABREA4035 | 35 (M8+M10)  | 32 - 36   | <b>512,520</b>   | 1"             | 150          | 50  | 100   |
| ABREA4040 | 40 (M8+M10)  | 36 - 42   | <b>549,773</b>   | 1 1/4"         | 150          | 25  | 100   |
| ABREA4048 | 48 (M8+M10)  | 47 - 50   | <b>593,963</b>   | 1 1/2"         | 150          | 25  | 100   |
| ABREA4054 | 54 (M8+M10)  | 51 - 55   | <b>619,670</b>   | -              | 150          | 25  | 75  |
| ABREA4060 | 60 (M8+M10)  | 60 - 64   | <b>660,557</b>   | 2"             | 150          | 25  | 75  |
| ABREA4075 | 75 (M8+M10)  | 75 - 80   | <b>732,887</b>   | 2 1/2"         | 150          | 25  | 50  |
| ABREA4090 | 90 (M8+M10)  | 87 - 92   | <b>803,653</b>   | 3"             | 150          | 25  | -   |
| ABREA4110 | 110 (M8+M10) | 106 - 112 | <b>925,417</b>   | -              | 150          | 25  | -   |
| ABREA4115 | 115 (M8+M10) | 114 - 119 | <b>992,830</b>   | 4"             | 150          | 25  | -   |
| ABREA4125 | 125 (M8+M10) | 124 - 131 | <b>1.045,960</b> | 4 1/2"         | 150          | 25  | -   |
| ABREA4140 | 140 (M8+M10) | 133 - 140 | <b>1.238,123</b> | 5"             | 150          | 25  | -   |
| ABREA4160 | 160 (M8+M10) | 159 - 163 | <b>1.359,077</b> | -              | 150          | 25  | -   |
| ABREA4200 | 200 (M8+M10) | 199 - 212 | <b>1.649,190</b> | -              | 150          | 25  | -   |



# AB-RI

Reinforced isophonic pipe clamp M8 + M10

## AB-RI A2

A2 Stainless steel



02 Technical info P. 414

STAINLESS STEEL



| CODE      | SIZE         | ØD(mm)    | €/100     | SIZE IN INCHES | MAXIMUN LOAD |    |     |
|-----------|--------------|-----------|-----------|----------------|--------------|----|-----|
| ABRIA2018 | 18 (M8+M10)  | 15 - 18   | 437,957   | 3/8"           | 150          | 50 | 200 |
| ABRIA2022 | 22 (M8+M10)  | 20 - 24   | 450,040   | 1/2"           | 150          | 50 | 150 |
| ABRIA2028 | 28 (M8+M10)  | 26 - 30   | 470,067   | 3/4"           | 150          | 50 | 150 |
| ABRIA2035 | 35 (M8+M10)  | 32 - 36   | 494,553   | 1"             | 150          | 50 | 100 |
| ABRIA2040 | 40 (M8+M10)  | 36 - 42   | 521,510   | 1 1/4"         | 150          | 25 | 75  |
| ABRIA2048 | 48 (M8+M10)  | 47 - 50   | 552,720   | 1 1/2"         | 150          | 25 | 75  |
| ABRIA2054 | 54 (M8+M10)  | 51 - 55   | 603,450   | -              | 150          | 25 | 50  |
| ABRIA2060 | 60 (M8+M10)  | 60 - 64   | 636,210   | 2"             | 150          | 25 | 50  |
| ABRIA2075 | 75 (M8+M10)  | 75 - 80   | 716,740   | 2 1/2"         | 150          | 25 | -   |
| ABRIA2090 | 90 (M8+M10)  | 87 - 92   | 774,940   | 3"             | 150          | 25 | -   |
| ABRIA2110 | 110 (M8+M10) | 106 - 112 | 861,733   | -              | 150          | 25 | -   |
| ABRIA2115 | 115 (M8+M10) | 114 - 119 | 885,613   | 4"             | 150          | 25 | -   |
| ABRIA2125 | 125 (M8+M10) | 124 - 131 | 954,507   | 4 1/2"         | 150          | 25 | -   |
| ABRIA2140 | 140 (M8+M10) | 133 - 140 | 988,260   | 5"             | 150          | 25 | -   |
| ABRIA2160 | 160 (M8+M10) | 159 - 163 | 1.108,780 | 6"             | 150          | 25 | -   |

## AB-RI A4

A4 Stainless steel



02 Technical info P. 414

STAINLESS STEEL



| CODE      | SIZE         | ØD(mm)    | €/100     | SIZE IN INCHES | MAXIMUN LOAD |    |     |
|-----------|--------------|-----------|-----------|----------------|--------------|----|-----|
| ABRIA4018 | 18 (M8+M10)  | 15 - 18   | 546,720   | 3/8"           | 150          | 50 | 200 |
| ABRIA4022 | 22 (M8+M10)  | 20 - 24   | 574,767   | 1/2"           | 150          | 50 | 150 |
| ABRIA4028 | 28 (M8+M10)  | 26 - 30   | 599,950   | 3/4"           | 150          | 50 | 150 |
| ABRIA4035 | 35 (M8+M10)  | 32 - 36   | 644,877   | 1"             | 150          | 50 | 100 |
| ABRIA4040 | 40 (M8+M10)  | 36 - 42   | 695,083   | 1 1/4"         | 150          | 25 | 75  |
| ABRIA4048 | 48 (M8+M10)  | 47 - 50   | 747,293   | 1 1/2"         | 150          | 25 | 75  |
| ABRIA4054 | 54 (M8+M10)  | 51 - 55   | 784,260   | -              | 150          | 25 | 50  |
| ABRIA4060 | 60 (M8+M10)  | 60 - 64   | 857,263   | 2"             | 150          | 25 | 50  |
| ABRIA4075 | 75 (M8+M10)  | 75 - 80   | 937,940   | 2 1/2"         | 150          | 25 | -   |
| ABRIA4090 | 90 (M8+M10)  | 87 - 92   | 1.029,127 | 3"             | 150          | 25 | -   |
| ABRIA4110 | 110 (M8+M10) | 106 - 112 | 1.213,387 | -              | 150          | 25 | -   |
| ABRIA4115 | 115 (M8+M10) | 114 - 119 | 1.261,460 | 4"             | 150          | 25 | -   |
| ABRIA4125 | 125 (M8+M10) | 124 - 131 | 1.336,367 | 4 1/2"         | 150          | 25 | -   |
| ABRIA4140 | 140 (M8+M10) | 133 - 140 | 1.449,203 | 5"             | 150          | 25 | -   |
| ABRIA4160 | 160 (M8+M10) | 159 - 163 | 1.660,183 | 6"             | 150          | 25 | -   |

# AB-ZI

U-bolt

## AB-ZI A2

A2 Stainless steel



SANITATION





| CODE       | SIZE      | €/100     | MAXIMUN LOAD |     |     |
|------------|-----------|-----------|--------------|-----|-----|
| AZA2060500 | M6 1/2"   | 105,883   | 250          | 100 | 600 |
| AZA2060750 | M6 3/4"   | 123,093   | 250          | 100 | 600 |
| AZA2061000 | M6 1"     | 151,650   | 250          | 100 | 400 |
| AZA2061250 | M6 1 1/4" | 179,560   | 250          | 50  | 300 |
| AZA2081500 | M8 1 1/2" | 312,037   | 350          | 50  | 150 |
| AZA2082000 | M8 2"     | 362,937   | 350          | 50  | 150 |
| AZA2082500 | M8 2 1/2" | 408,927   | 350          | 50  | 100 |
| AZA2083000 | M8 3"     | 444,473   | 350          | 50  | 100 |
| AZA2104000 | M10 4"    | 904,320   | 350          | 50  | -   |
| AZA2106000 | M10 6"    | 1.166,313 | 350          | 25  | -   |
| AZA2108000 | M10 8"    | 1.395,300 | 350          | 25  | -   |

Pipe clamp M6

# AB-M6

02 Technical info P. 619



| CODE      | SIZE    | ØD(mm)  | €/100          | SIZE IN INCHES | MAXIMUM LOAD |  |  |
|-----------|---------|---------|----------------|----------------|--------------|---|---|
| ABM6A2012 | 12 (M6) | 12      | <b>229,473</b> | 1/4"           | 70           | 100   | 1.200   |
| ABM6A2015 | 15 (M6) | 14 - 15 | <b>233,623</b> | -              | 70           | 100   | 600   |
| ABM6A2018 | 18 (M6) | 16 - 18 | <b>237,770</b> | 3/8"           | 70           | 100   | 600   |
| ABM6A2020 | 20 (M6) | 19 - 21 | <b>242,527</b> | 1/2"           | 70           | 100   | 600   |
| ABM6A2022 | 22 (M6) | 22 - 24 | <b>245,593</b> | -              | 70           | 100   | 600   |
| ABM6A2028 | 28 (M6) | 25 - 30 | <b>259,383</b> | 3/4"           | 70           | 100   | 400   |

## AB-M6 A2

A2 Stainless steel





Hose clamp

# AB-SF

02 Technical info P. 625



| CODE       | SIZE    | ØD(mm)    | €/100          | SIZE IN INCHES |  |  |
|------------|---------|-----------|----------------|----------------|---|---|
| ASF2010016 | 10-16   | 10-16     | <b>78,667</b>  | -              | 100   | 1.200   |
| ASF2012020 | 12-20   | 12-20     | <b>80,623</b>  | 1/2"- 7/8"     | 100   | 600   |
| ASF2016027 | 16-27   | 16 - 27   | <b>84,100</b>  | 5/8"- 1 1/16"  | 100   | 600   |
| ASF2020032 | 20-32   | 20 - 32   | <b>94,850</b>  | 3/4"- 1 1/4"   | 100   | 600   |
| ASF2025040 | 25-40   | 25 - 40   | <b>103,640</b> | 1" - 1 5/8"    | 100   | 200   |
| ASF2032050 | 32-50   | 32 - 50   | <b>144,253</b> | 1 3/8"- 2"     | 100   | 300   |
| ASF2040060 | 40-60   | 40 - 60   | <b>153,163</b> | 1 5/8"- 2 3/8" | 100   | 200   |
| ASF2050070 | 50-70   | 50 - 70   | <b>159,847</b> | 2" - 2 3/4"    | 50  | 100   |
| ASF2060080 | 60-80   | 60 - 80   | <b>168,033</b> | 2 3/8"- 3 1/8" | 50  | 100   |
| ASF2070090 | 70-90   | 70 - 90   | <b>176,967</b> | 2 3/4"- 3 1/2" | 50  | 100   |
| ASF2080100 | 80-100  | 80 - 100  | <b>182,903</b> | 3 1/8"- 4"     | 50  | 100   |
| ASF2090110 | 90-110  | 90 - 110  | <b>213,293</b> | 3 1/2"- 4 3/8" | 50  | 100   |
| ASF2100120 | 100-120 | 100 - 120 | <b>221,667</b> | 4" - 4 3/4"    | 25  | 25  |
| ASF2110130 | 110-130 | 110 - 130 | <b>230,020</b> | 4 3/8"- 5 1/8" | 25  | 25  |
| ASF2120140 | 120-140 | 120 - 140 | <b>241,733</b> | 4 3/4"- 5 1/2" | 25  | 25  |
| ASF2130150 | 130-150 | 130 - 150 | <b>250,940</b> | 5 1/8"- 5 7/8" | 25  | 25  |

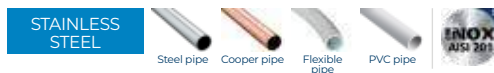
## AB-SF A2

A2 Stainless steel



Stainless hose clamp roll

# AB-SF IR



| CODE    | SIZE             | €/PC          |  |  |
|---------|------------------|---------------|---|--|
| ASFIR03 | 9 x 0,6 mm / 3 m | <b>12,224</b> | 1   | 50   |

## AB-SF IR

Kit (Roll 3 m. + 8 heads). Stainless steel



| CODE    | SIZE    | €/100         |  |  |
|---------|---------|---------------|---|--|
| ASFIRCA | Cabezal | <b>87,327</b> | 50  | 1.000  |

## AB-SF IRC

Head. Stainless steel



# AB-SF IR

Stainless hose clamp roll

## AB-SF IRR

Roll 30 m. Stainless steel



STAINLESS STEEL



| CODE    | SIZE              | €/PC   |   |    |
|---------|-------------------|--------|---|----|
| ASFIR30 | 9 x 0,6 mm / 30 m | 43,662 | 1 | 10 |

# CI-PE

Fixing band

## CI-PE A2

Round fixing band. A2 Stainless steel



02 Technical Info P. 425

STAINLESS STEEL



| CODE       | SIZE            | €/PC   |   |    |
|------------|-----------------|--------|---|----|
| CIPEA21708 | 17 x 0,8 x 10 m | 32,706 | 1 | 30 |

# AB-IT

Stainless steel clamp Indextube

## AB-ITS

Simple



SANITATION



| CODE     | SIZE | €/100   |     |     |
|----------|------|---------|-----|-----|
| ABITS015 | 15   | 122,600 | 100 | 600 |
| ABITS018 | 18   | 132,847 | 100 | 400 |
| ABITS022 | 22   | 196,913 | 100 | 400 |
| ABITS028 | 28   | 264,693 | 100 | 300 |

## AB-ITD

Double



SANITATION



| CODE     | SIZE | €/100   |    |     |
|----------|------|---------|----|-----|
| ABITD015 | 15   | 453,273 | 50 | 300 |
| ABITD018 | 18   | 513,180 | 50 | 200 |
| ABITD022 | 22   | 643,220 | 50 | 100 |




Type "C" profiles for light loads

GP

STAINLESS  
STEEL



| CODE      | SIZE                  | €/100             | LENGTH |  |
|-----------|-----------------------|-------------------|--------|--|
| GPI271812 | 27 x 18 x 1,25 x 2000 | <b>10.485,197</b> | 2.000  | 6  |
| GPI283015 | 28 x 30 x 1,50 x 2000 | <b>22.468,757</b> | 2.000  | 6  |
| GPI384020 | 38 x 40 x 2,00 x 2000 | <b>26.493,367</b> | -      | 5  |

GP-A2

Slotted strut channel. A2 Stainless steel



Accessories for type "C" profiles

PE-AC

STAINLESS  
STEEL



| CODE  | SIZE        | SUITABLE FOR          | €/100          |  |  |
|-------|-------------|-----------------------|----------------|---|---|
| EMI45 | 50 x 50 45° | 27/18 - 28/30 - 38/40 | <b>543,020</b> | 50  | 200   |
| EMI90 | 54 x 54 90° | 27/18 - 28/30 - 38/40 | <b>543,020</b> | 50  | -   |
| EMI00 | 100 180°    | 27/18 - 28/30 - 38/40 | <b>538,363</b> | 50  | 200   |


EG-A2

A2 Stainless steel channel bracket



STAINLESS  
STEEL



| CODE    | SIZE         | SUITABLE FOR | €/100          |  |  |
|---------|--------------|--------------|----------------|---|---|
| PGI2718 | 27 / 18 x 81 | 27/18        | <b>264,863</b> | 50  | 300   |
| PGI2830 | 28 / 30 x 81 | 28/30        | <b>304,597</b> | 50  | 200   |
| PGI3840 | 38 / 40 x 93 | 38/40        | <b>370,813</b> | 50  | 100   |

PG-A2

A2 Stainless steel Channel U-fitting



Clamps for photovoltaic modules assembly

ISF-GG

METAL



| CODE      | SIZE    | €/100          |  |  |
|-----------|---------|----------------|---|---|
| KFRSC3050 | 30 - 50 | <b>583,910</b> | 10  | 240   |

KFR-SC

Quick pre-assembled clamp



# ISF-CC

Connectors + Accessories for the solar structures assembly

## KFS-FI

Cross connector for bottom fixing. Stainless steel A2

METAL



| CODE    | SIZE | €/100          |     |     |
|---------|------|----------------|-----|-----|
| KFSFI08 | M8   | <b>165,977</b> | 100 | 900 |

## TU-RX A2

INDEXTRUT quick nut. Stainless steel A2

METAL



| CODE     | SIZE | €/100          |    |     |
|----------|------|----------------|----|-----|
| TURXA208 | M8   | <b>141,600</b> | 50 | 300 |

## DIN-603 A2

Screw DIN-603. Round head screw with square neck. Stainless steel A2

METAL



| CODE       | SIZE    | €/100         |     |       |
|------------|---------|---------------|-----|-------|
| D603I08016 | M8 x 16 | <b>42,047</b> | 200 | 2.400 |



Available in different coatings. Ask for price and delivery time.

## DIN-6921 A2

Screw DIN-6921. Hexagonal flanged bolt with serration. Stainless steel A2

METAL





| CODE       | SIZE    | €/100          | INSTALLATION KEY |     |       |
|------------|---------|----------------|------------------|-----|-------|
| 6921I08020 | M8 x 20 | <b>50,523</b>  | 13               | 200 | 2.400 |
| 6921I08050 | M8 x 50 | <b>80,817</b>  | 13               | 100 | 600   |
| 6921I08070 | M8 x 70 | <b>117,303</b> | 13               | 100 | 600   |

Connectors + Accessories for the solar structures assembly

# ISF-CC

METAL



| CODE      | SIZE | €/100         | INSTALLATION KEY |  |  |
|-----------|------|---------------|------------------|---|---|
| D6923IM08 | M8   | <b>24,660</b> | 13               | 250   | 3.000   |
| D6923IM10 | M10  | <b>47,753</b> | 15               | 250   | 3.000   |
| D6923IM12 | M12  | <b>70,740</b> | 18               | 250   | 1.500   |



## DIN-6923 A2

DIN-6923 Hexagonal flange nut with serration. Stainless steel A2



METAL



| CODE     | SIZE | €/100         |  |  |
|----------|------|---------------|---|--|
| D127IM08 | M8   | <b>4,530</b>  | 200   | 9.000  |
| D127IM10 | M10  | <b>7,237</b>  | 100   | 4.500  |
| D127IM12 | M12  | <b>10,923</b> | 100   | 4.500  |

## DIN-127 A2



Grower spring washer DIN-127. Stainless steel A2



Adjustable studs for the installation of solar panels

METAL



| CODE                  | SIZE     | €/100            | INSTALLATION KEY |  |  |
|-----------------------|----------|------------------|------------------|---|---|
| KFSMA10200            | 10 x 200 | <b>555,310</b>   | 7                | 25  | 150   |
| KFSMA10250            | 10 x 250 | <b>626,317</b>   | 7                | 25  | 150   |
| KFSMA12300 <b>NEW</b> | 12 x 300 | <b>1.214,187</b> | 9                | 25  | 75  |
| KFSMA12350 <b>NEW</b> | 12 x 350 | <b>1.321,193</b> | 9                | 25  | 75  |



## KFS-MA

Double threaded stud. Stainless steel A2



METAL



| CODE       | SIZE     | €/100            | INSTALLATION KEY |  |  |
|------------|----------|------------------|------------------|---|---|
| KFSAU10160 | 10 x 160 | <b>2.496,347</b> | 13               | 25  | 150   |
| KFSAU10200 | 10 x 200 | <b>2.896,505</b> | 13               | 25  | 75  |



## KFS-AU

Self-tapping screw. Stainless steel A2



METAL



| CODE       | SIZE     | €/100            | INSTALLATION KEY |  |  |
|------------|----------|------------------|------------------|---|---|
| KFSRV10250 | 10 x 250 | <b>626,317</b>   | 7                | 25  | 150   |
| KFSRV12350 | 12 x 350 | <b>1.228,876</b> | 9                | 25  | 75  |

## KFS-RV

Threaded rod for chemical anchor installation. Stainless steel A2



# ISF-FR

Adjustable accessories for solar panels installation

## GS-TC

Adjustable roof hook for curved roof tile. Stainless steel A2



METAL



| CODE       | SIZE     | €/100            |  |
|------------|----------|------------------|---|
| GSTC040080 | 40 - 80  | <b>2.659,303</b> | 20  |
| GSTC080120 | 80 - 120 | <b>2.709,631</b> | 20  |

## GS-TU

Adjustable roof hook for universal roof tile. Stainless steel A2



METAL



| CODE       | SIZE    | €/100            |  |
|------------|---------|------------------|---|
| GSTU040055 | 40 - 55 | <b>2.872,957</b> | 20  |

## STR

Adjustable support for trapezoidal roof. Stainless steel A2



METAL



| CODE    | SIZE    | €/100            |  |
|---------|---------|------------------|---|
| STR1680 | 16 - 80 | <b>1.944,180</b> | 40  |



## PMO

Plate for double threaded screw. Stainless steel A2



METAL




| CODE    | SIZE     | €/100          |  |  |
|---------|----------|----------------|---|---|
| PMO1012 | M10 -M12 | <b>263,027</b> | 25  | 300   |

Direct fixing accessories for solar panels installation

ISF-FD



| CODE       | SIZE       | €/100         | N° RECESS |  |  |
|------------|------------|---------------|-----------|---|---|
| TACB166025 | 6 x 25 P16 | <b>99,783</b> | 8         | 500   | 2.000   |

TAC BIMETAL+ARVUL A2



Bi-metal thin sheet screw + vulcanised EPDM-stainless steel A2 washer



Sealing accessories for solar panel installation

ISF-ES



| CODE   | SIZE | €/100         |  |  |
|--------|------|---------------|---|---|
| ARSP08 | M8   | <b>51,876</b> | 100   | 1.200   |
| ARSP10 | M10  | <b>51,876</b> | 100   | 1.200   |

ARS-P


Stainless steel A2 umbrella washer + EPDM



Kits for solar installations

ISF-KT



| CODE                 | SIZE                | €/PC           |  |
|----------------------|---------------------|----------------|--|
| KTPSE0235            | x2 (35 mm) - ORIGEN | <b>380,747</b> | 1  |
| KTPSE0240            | x2 (40 mm) - ORIGEN | <b>380,747</b> | 1  |
| KTPSE0335            | x3 (35 mm) - ORIGEN | <b>542,080</b> | 1  |
| KTPSE0340            | x3 (40 mm) - ORIGEN | <b>542,080</b> | 1  |
| KTPSE0330 <b>NEW</b> | x3 (30 mm) - ORIGEN | <b>542,080</b> | 1  |
| KTPSE03AM <b>NEW</b> | x3 - AMPLIACION     | <b>529,173</b> | 1  |
| KTPSE0230 <b>NEW</b> | x2 (30 mm) - ORIGEN | <b>380,747</b> | 1  |
| KTPSE02AM <b>NEW</b> | x2 - AMPLIACION     | <b>375,907</b> | 1  |

KT-PSE

Triangular with PSE-A aluminium profile. Assembled fixing




# RV Threaded rod

## RV-A2

A2 Stainless steel. 1 meter

STAINLESS STEEL 



| CODE     | SIZE       | €/100      | LENGTH | PITCH |  |
|----------|------------|------------|--------|-------|---|
| 975A2M04 | M4 x 1000  | 331,050    | 1.000  | 0.7   | 1   |
| 975A2M05 | M5 x 1000  | 390,363    | 1.000  | 0.8   | 1   |
| 975A2M06 | M6 x 1000  | 538,960    | 1.000  | 1     | 1   |
| 975A2M08 | M8 x 1000  | 874,627    | 1.000  | 1.25  | 1   |
| 975A2M10 | M10 x 1000 | 1.267,020  | 1.000  | 1.5   | 1   |
| 975A2M12 | M12 x 1000 | 1.928,897  | 1.000  | 1.75  | 1   |
| 975A2M14 | M14 x 1000 | 3.377,737  | 1.000  | 2     | 1   |
| 975A2M16 | M16 x 1000 | 3.900,350  | 1.000  | 2     | 1   |
| 975A2M18 | M18 x 1000 | 4.254,923  | 1.000  | 2.5   | 1   |
| 975A2M20 | M20 x 1000 | 5.871,797  | 1.000  | 2.5   | 1   |
| 975A2M22 | M22 x 1000 | 6.863,907  | 1.000  | 2.5   | 1   |
| 975A2M24 | M24 x 1000 | 9.265,300  | 1.000  | 3     | 1   |
| 975A2M27 | M27 x 1000 | 11.166,597 | 1.000  | 3     | 1   |
| 975A2M30 | M30 x 1000 | 17.378,990 | 1.000  | 3.5   | 1   |
| 975A2M33 | M33 x 1000 | 21.818,293 | 1.000  | 3.5   | 1   |
| 975A2M36 | M36 x 1000 | 25.094,577 | 1.000  | 4     | 1   |



# MA Coupling nut

## MA-RI

Round. A2 Stainless steel

STAINLESS STEEL 



| CODE     | SIZE     | €/100   | LENGTH |  |  |
|----------|----------|---------|--------|---|---|
| MARI0830 | M8 x 30  | 194,450 | 30     | 100   | 2.400   |
| MARI1030 | M10 x 30 | 267,700 | 30     | 100   | -   |

# TAG Threaded screw clamp and staple

## AB-TA A2

A2 Stainless steel

 Technical info P. 434

STAINLESS STEEL 



| CODE      | SIZE    | €/100  |  |  |
|-----------|---------|--------|---|---|
| ABTA20630 | M6 x 30 | 67,270 | 100   | 2.400   |

# ES-DR Double threaded screw



## ES-DA2

A2 Stainless steel. TX

 Technical info P. 435

STAINLESS STEEL 



| CODE       | SIZE     | €/100   | INSTALLATION KEY |  |  |
|------------|----------|---------|------------------|---|---|
| ESDA208060 | M8 x 60  | 101,123 | 6                | 100   | 800   |
| ESDA210060 | M10 x 60 | 188,120 | 8                | 100   | 800   |





Flat bar for fixation

PF

STAINLESS  
STEEL



| CODE      | SIZE     | €/100          |  |  |
|-----------|----------|----------------|---|---|
| PFA4M0800 | M8       | <b>292,830</b> | 100   | 600   |
| PFA4M0810 | M8 + M10 | <b>349,020</b> | 100   | 600   |
| PFA4M1000 | M10      | <b>334,547</b> | 100   | 600   |

PF-A4

A4 Stainless steel



Sanitary fixings

SA

SANITATION



| CODE      | SIZE    | €/KIT        |  |
|-----------|---------|--------------|---|
| SAIL06080 | M6 x 80 | <b>3,257</b> | 100   |


Stainless steel WC and bidet fixing kit with long nylon plug. 2 PCS x KIT



SA-IL

SANITATION



| CODE      | SIZE    | €/KIT        |  |
|-----------|---------|--------------|---|
| SACI06080 | M6 x 80 | <b>6,187</b> | 100   |

Cistern fixing kit. 2 PCS x KIT

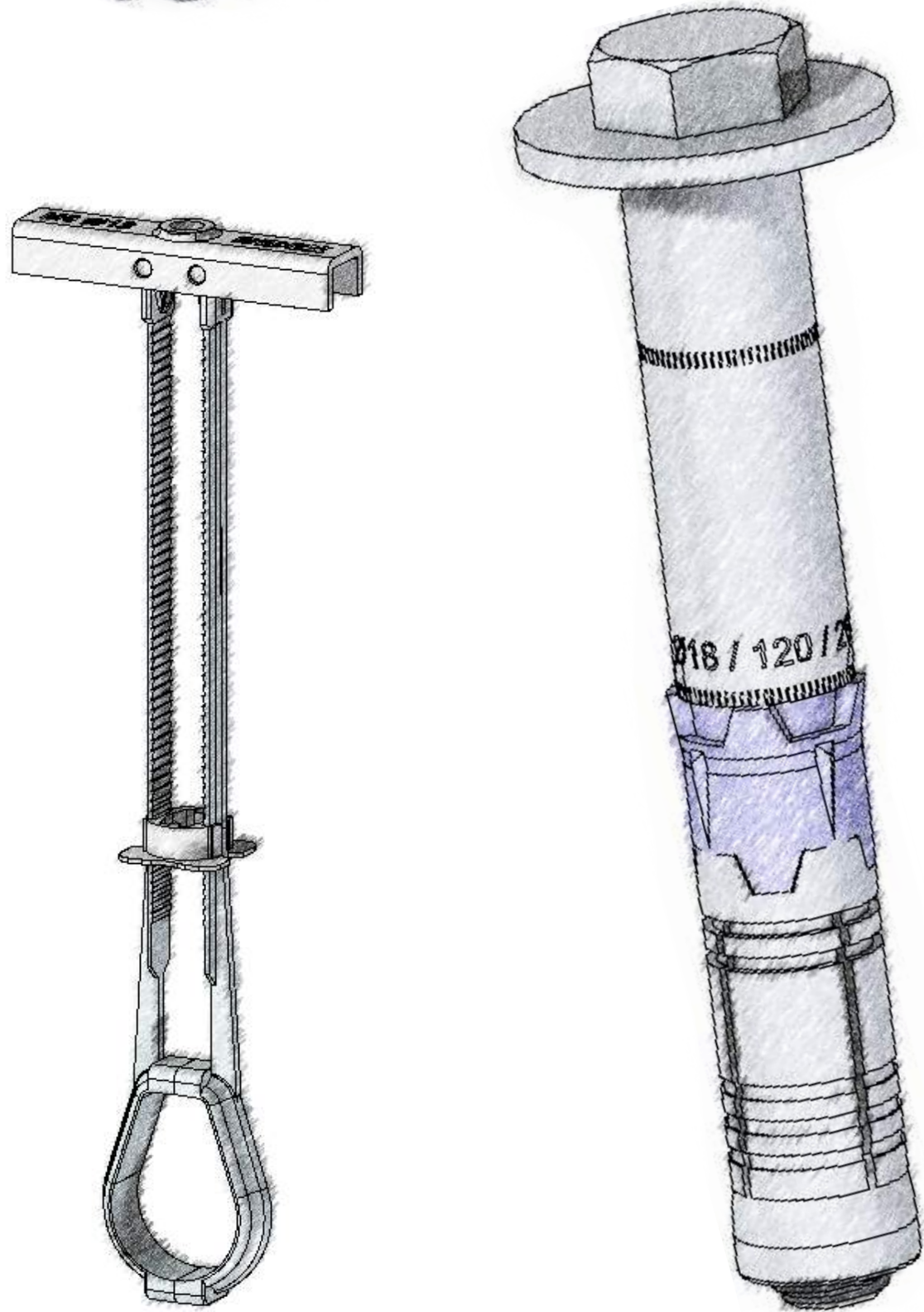
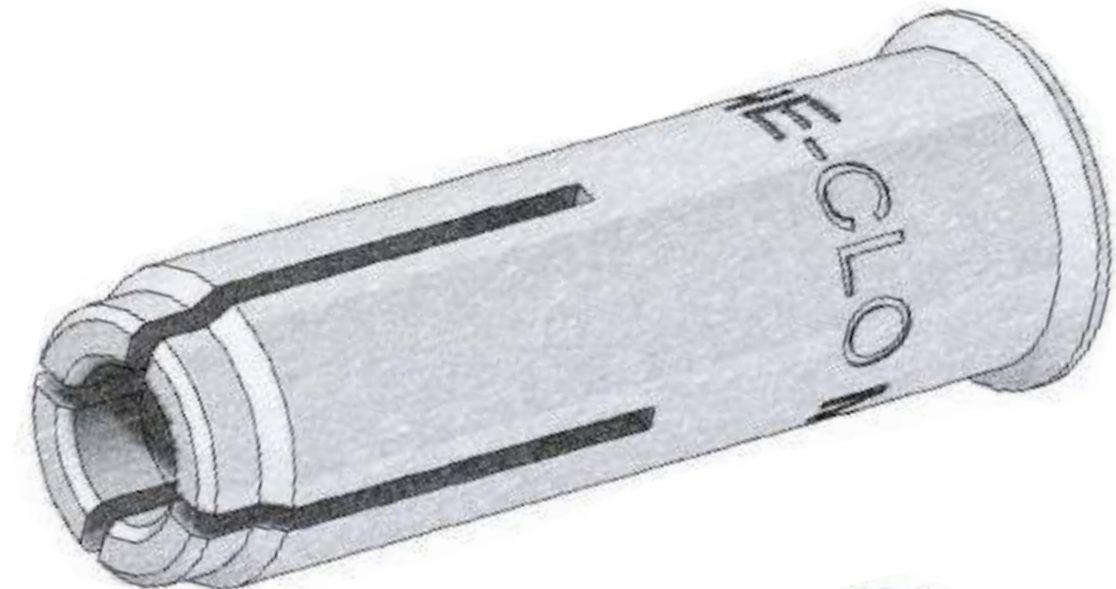


SA-CI

ALSO AVAILABLE

**easykits**





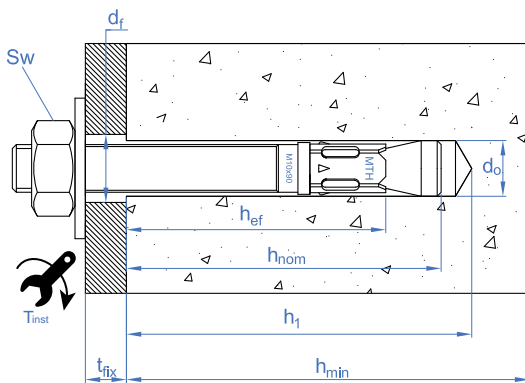
# TECHNICAL INFORMATION

# TECHNICAL INSTALLATION PARAMETERS

On the following pages, you will find a series of quick reference points that will help you to choose the right product for your installation. If you would like further information, please refer to our technical documentation, which is available at: [www.indexfix.com](http://www.indexfix.com)

The first points are descriptive and help us to understand the geometry of the anchorage and its corresponding reference code. The next ones are product installation parameters, using mm as units of distance, kg for the maximum recommended loads and Nm for the tightening torque of the anchors.

The majority of the products come with a dimensioned sketch, and the meaning of these levels for the anchors are described below:



|            |  |
|------------|--|
| $d_o$      | bit or drill diameter [mm]                                       |
| $h_1$      | minimum drill or hole depth [mm]                                 |
| $h_{min}$  | minimum base material thickness [mm]                             |
| $d_f$      | diameter of hole in the fixture [mm]                             |
| $h_{nom}$  | anchor installation depth [mm]                                   |
| $t_{fix}$  | maximum fixture thickness [mm]                                   |
| $t_{inst}$ | tightening torque required for the correct anchor expansion [Nm] |
| $C_{cr}$   | critical edge distance [mm]                                      |
| $S_c$      | critical distance between anchors [mm]                           |
| $h_{ef}$   | effective anchor depth [mm]                                      |
| $SW$       | installation wrench or distance between the nut faces [mm]       |

## EXTRACTION

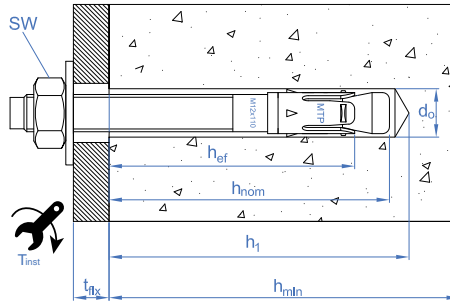
Maximum recommended tensile load that the anchor can resist. This has been calculated by applying a safety factor of 1.4 to the anchor's resistance of calculation and it is expressed in kg. This factor is applicable for cracked and non-cracked concrete. The safety factor for other materials can reach 2.5.

## SHEARING

Maximum recommended shear load that the anchor can resist. This has been calculated by applying a safety factor of 1.4 to the anchor's resistance of calculation and it is expressed in kg. This factor is applicable for cracked and non-cracked concrete. The safety factor for other materials can reach 2.5.

# MTP

Through bolt anchor for heavy loads in cracked & uncracked concrete



## MTP

Opt.1 ETA Assessed. Zinc-plated shaft. A4 Stainless clip

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| AP08050 | M8 x 50   | 2                      | 8       | 40              | 37                | 13               | 20          | A           | 9                | 100                      | 72                        | 144                         | 182                               | 392                             | 130                           | 275                         |
| AP08075 | M8 x 75   | 9                      | 8       | 60              | 55                | 13               | 20          | C           | 9                | 100                      | 72                        | 144                         | 364                               | 641                             | 202                           | 556                         |
| AP08095 | M8 x 95   | 29                     | 8       | 60              | 55                | 13               | 20          | E           | 9                | 100                      | 72                        | 144                         | 364                               | 641                             | 202                           | 556                         |
| AP08115 | M8 x 115  | 49                     | 8       | 60              | 55                | 13               | 20          | G           | 9                | 100                      | 72                        | 144                         | 364                               | 641                             | 202                           | 556                         |
| AP10090 | M10 x 90  | 10                     | 10      | 75              | 68                | 17               | 40          | E           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 461                           | 1014                        |
| AP10105 | M10 x 105 | 25                     | 10      | 75              | 68                | 17               | 40          | F           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 461                           | 1014                        |
| AP10115 | M10 x 115 | 35                     | 10      | 75              | 68                | 17               | 40          | G           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 461                           | 1014                        |
| AP10135 | M10 x 135 | 55                     | 10      | 75              | 68                | 17               | 40          | H           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 461                           | 1014                        |
| AP10165 | M10 x 165 | 85                     | 10      | 75              | 68                | 17               | 40          | K           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 461                           | 1014                        |
| AP10185 | M10 x 185 | 105                    | 10      | 75              | 68                | 17               | 40          | L           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 461                           | 1014                        |
| AP12080 | M12 x 80  | 4                      | 12      | 65              | 60                | 19               | 60          | D           | 14               | 100                      | 105                       | 210                         | 585                               | 1474                            | 417                           | 1182                        |
| AP12100 | M12 x 100 | 4                      | 12      | 85              | 80                | 19               | 60          | E           | 14               | 140                      | 105                       | 210                         | 971                               | 1474                            | 582                           | 1474                        |
| AP12110 | M12 x 110 | 14                     | 12      | 85              | 80                | 19               | 60          | F           | 14               | 140                      | 105                       | 210                         | 971                               | 1474                            | 582                           | 1474                        |
| AP12120 | M12 x 120 | 24                     | 12      | 85              | 80                | 19               | 60          | G           | 14               | 140                      | 105                       | 210                         | 971                               | 1474                            | 582                           | 1474                        |
| AP12130 | M12 x 130 | 34                     | 12      | 85              | 80                | 19               | 60          | H           | 14               | 140                      | 105                       | 210                         | 971                               | 1474                            | 582                           | 1474                        |
| AP12150 | M12 x 150 | 54                     | 12      | 85              | 80                | 19               | 60          | I           | 14               | 140                      | 105                       | 210                         | 971                               | 1474                            | 582                           | 1474                        |
| AP12180 | M12 x 180 | 84                     | 12      | 85              | 80                | 19               | 60          | L           | 14               | 140                      | 105                       | 210                         | 971                               | 1474                            | 582                           | 1474                        |
| AP12200 | M12 x 200 | 104                    | 12      | 85              | 80                | 19               | 60          | M           | 14               | 140                      | 105                       | 210                         | 971                               | 1474                            | 582                           | 1474                        |
| AP16145 | M16 x 145 | 28                     | 16      | 105             | 97                | 24               | 100         | I           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1214                          | 2620                        |
| AP16175 | M16 x 175 | 58                     | 16      | 105             | 97                | 24               | 100         | K           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1214                          | 2620                        |
| AP16220 | M16 x 220 | 103                    | 16      | 105             | 97                | 24               | 100         | O           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1214                          | 2620                        |
| AP16250 | M16 x 250 | 133                    | 16      | 105             | 97                | 24               | 100         | Q           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1214                          | 2620                        |
| AP20170 | M20 x 170 | 32                     | 20      | 125             | 114               | 30               | 200         | K           | 22               | 200                      | 150                       | 300                         | 2330                              | 4258                            | 1553                          | 3343                        |
| AP20200 | M20 x 200 | 62                     | 20      | 125             | 114               | 30               | 200         | N           | 22               | 200                      | 150                       | 300                         | 2330                              | 4258                            | 1553                          | 3343                        |
| AP24205 | M24 x 205 | 35                     | 24      | 155             | 143               | 36               | 250         | N           | 26               | 250                      | 188                       | 375                         | 2225                              | 4934                            | 1416                          | 4672                        |
| AP24235 | M24 x 235 | 65                     | 24      | 155             | 143               | 36               | 250         | P           | 26               | 250                      | 188                       | 375                         | 2225                              | 4934                            | 1416                          | 4672                        |

## MTP-A4

Opt.1 ETA Assessed. A4 Stainless steel shaft. A4 Stainless steel clip

| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| APA408075 | M8 x 75   | 9                      | 8       | 60              | 55                | 13               | 15          | C           | 9                | 100                      | 144                       | 72                          | 582                               | 693                             | 413                           | 556                         |
| APA408095 | M8 x 95   | 29                     | 8       | 60              | 55                | 13               | 15          | E           | 9                | 100                      | 144                       | 72                          | 582                               | 693                             | 413                           | 556                         |
| APA408115 | M8 x 115  | 49                     | 8       | 60              | 55                | 13               | 15          | G           | 9                | 100                      | 144                       | 72                          | 582                               | 693                             | 413                           | 556                         |
| APA408135 | M8 x 135  | 69                     | 8       | 60              | 55                | 13               | 15          | H           | 9                | 100                      | 144                       | 72                          | 582                               | 693                             | 413                           | 556                         |
| APA410090 | M10 x 90  | 10                     | 10      | 75              | 68                | 17               | 30          | E           | 12               | 120                      | 180                       | 90                          | 777                               | 1101                            | 413                           | 556                         |
| APA410105 | M10 x 105 | 25                     | 10      | 75              | 68                | 17               | 30          | F           | 12               | 120                      | 180                       | 90                          | 777                               | 1101                            | 413                           | 556                         |
| APA410115 | M10 x 115 | 35                     | 10      | 75              | 68                | 17               | 30          | G           | 12               | 120                      | 180                       | 90                          | 777                               | 1101                            | 680                           | 1101                        |
| APA410135 | M10 x 135 | 55                     | 10      | 75              | 68                | 17               | 30          | H           | 12               | 120                      | 180                       | 90                          | 777                               | 1101                            | 680                           | 1101                        |
| APA410165 | M10 x 165 | 85                     | 10      | 75              | 68                | 17               | 30          | K           | 12               | 120                      | 180                       | 90                          | 777                               | 1101                            | 680                           | 1101                        |
| APA410185 | M10 x 185 | 105                    | 10      | 75              | 68                | 17               | 30          | L           | 12               | 120                      | 180                       | 90                          | 777                               | 1101                            | 680                           | 1101                        |
| APA412110 | M12 x 110 | 14                     | 12      | 85              | 80                | 19               | 60          | F           | 14               | 140                      | 210                       | 105                         | 890                               | 1596                            | 769                           | 1596                        |
| APA412120 | M12 x 120 | 24                     | 12      | 85              | 80                | 19               | 60          | G           | 14               | 140                      | 210                       | 105                         | 890                               | 1596                            | 769                           | 1596                        |
| APA412130 | M12 x 130 | 34                     | 12      | 85              | 80                | 19               | 60          | H           | 14               | 140                      | 210                       | 105                         | 890                               | 1596                            | 769                           | 1596                        |
| APA412150 | M12 x 150 | 54                     | 12      | 85              | 80                | 19               | 60          | I           | 14               | 140                      | 210                       | 105                         | 890                               | 1596                            | 769                           | 1596                        |
| APA412180 | M12 x 180 | 84                     | 12      | 85              | 80                | 19               | 60          | L           | 14               | 140                      | 210                       | 105                         | 890                               | 1596                            | 769                           | 1596                        |
| APA412200 | M12 x 200 | 104                    | 12      | 85              | 80                | 19               | 60          | M           | 14               | 140                      | 210                       | 105                         | 890                               | 1596                            | 769                           | 1596                        |
| APA416125 | M16 x 125 | 8                      | 16      | 105             | 97                | 24               | 100         | G           | 18               | 170                      | 255                       | 128                         | 890                               | 1596                            | 769                           | 1596                        |
| APA416145 | M16 x 145 | 28                     | 16      | 105             | 97                | 24               | 100         | I           | 18               | 170                      | 255                       | 128                         | 1559                              | 3204                            | 1092                          | 2620                        |
| APA416175 | M16 x 175 | 58                     | 16      | 105             | 97                | 24               | 100         | K           | 18               | 170                      | 255                       | 128                         | 1559                              | 3204                            | 1092                          | 2620                        |
| APA416190 | M16 x 190 | 73                     | 16      | 105             | 97                | 24               | 100         | L           | 18               | 170                      | 255                       | 128                         | 1559                              | 3204                            | 1092                          | 2620                        |
| APA416220 | M16 x 220 | 103                    | 16      | 105             | 97                | 24               | 100         | O           | 18               | 170                      | 255                       | 128                         | 1559                              | 3204                            | 1092                          | 2620                        |
| APA420200 | M20 x 200 | 62                     | 20      | 125             | 114               | 30               | 200         | M           | 22               | 200                      | 300                       | 150                         | 1990                              | 4776                            | 1393                          | 3343                        |
| APA420240 | M20 x 240 | 102                    | 20      | 125             | 114               | 30               | 200         | P           | 22               | 200                      | 300                       | 150                         | 1990                              | 4776                            | 1393                          | 3343                        |
| APA420285 | M20 x 285 | 147                    | 20      | 125             | 114               | 30               | 200         | S           | 22               | 200                      | 300                       | 150                         | 1990                              | 4776                            | 1393                          | 3343                        |

## MTP-X

Opt.1 ETA Assessed. Zinc-plated shaft. ATLANTIS C3-L clip

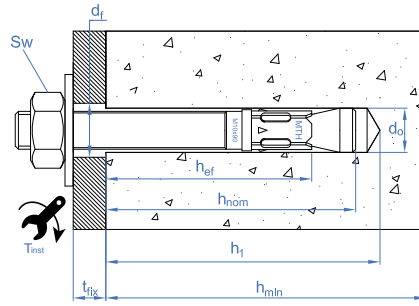
| CODE     | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| APX08050 | M8 x 50   | 2                      | 8       | 40              | 37                | 13               | 15          | A           | 9                | 100                      | 72                        | 144                         | 182                               | 392                             | 130                           | 275                         |
| APX08075 | M8 x 75   | 9                      | 8       | 60              | 55                | 13               | 15          | C           | 9                | 100                      | 72                        | 144                         | 405                               | 641                             | 283                           | 556                         |
| APX08080 | M8 x 80   | 14                     | 8       | 60              | 55                | 13               | 15          | D           | 9                | 100                      | 72                        | 144                         | 405                               | 641                             | 283                           | 556                         |
| APX08095 | M8 x 95   | 29                     | 8       | 60              | 55                | 13               | 15          | E           | 9                | 100                      | 72                        | 144                         | 405                               | 641                             | 283                           | 556                         |
| APX08115 | M8 x 115  | 49                     | 8       | 60              | 55                | 13               | 15          | G           | 9                | 100                      | 72                        | 144                         | 405                               | 641                             | 283                           | 556                         |
| APX10090 | M10 x 90  | 10                     | 10      | 75              | 68                | 17               | 40          | E           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 534                           | 1014                        |
| APX10105 | M10 x 105 | 25                     | 10      | 75              | 68                | 17               | 40          | F           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 534                           | 1014                        |
| APX10115 | M10 x 115 | 35                     | 10      | 75              | 68                | 17               | 40          | G           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 534                           | 1014                        |
| APX10135 | M10 x 135 | 55                     | 10      | 75              | 68                | 17               | 40          | H           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 534                           | 1014                        |
| APX10165 | M10 x 165 | 85                     | 10      | 75              | 68                | 17               | 40          | K           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 534                           | 1014                        |
| APX10185 | M10 x 185 | 105                    | 10      | 75              | 68                | 17               | 40          | L           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 534                           | 1014                        |
| APX12080 | M12 x 80  | 4                      | 12      | 65              | 60                | 19               | 60          | D           | 14               | 100                      | 105                       | 210                         | 488                               | 1474                            | 348                           | 1182                        |
| APX12100 | M12 x 100 | 4                      | 12      | 85              | 80                | 19               | 60          | E           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12110 | M12 x 110 | 14                     | 12      | 85              | 80                | 19               | 60          | F           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12120 | M12 x 120 | 24                     | 12      | 85              | 80                | 19               | 60          | G           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12130 | M12 x 130 | 34                     | 12      | 85              | 80                | 19               | 60          | H           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12150 | M12 x 150 | 54                     | 12      | 85              | 80                | 19               | 60          | I           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12180 | M12 x 180 | 84                     | 12      | 85              | 80                | 19               | 60          | L           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12200 | M12 x 200 | 104                    | 12      | 85              | 80                | 19               | 60          | M           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12220 | M12 x 220 | 124                    | 12      | 85              | 80                | 19               | 60          | O           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX12255 | M12 x 255 | 159                    | 12      | 85              | 80                | 19               | 60          | R           | 14               | 140                      | 105                       | 210                         | 1359                              | 1474                            | 728                           | 1474                        |
| APX16145 | M16 x 145 | 28                     | 16      | 105             | 97                | 24               | 100         | I           | 18               | 170                      | 128                       | 255                         | 1650                              | 2744                            | 1310                          | 2620                        |
| APX16175 | M16 x 175 | 58                     | 16      | 105             | 97                | 24               | 100         | K           | 18               | 170                      | 128                       | 255                         | 1650                              | 2744                            | 1310                          | 2620                        |
| APX16220 | M16 x 220 | 103                    | 16      | 105             | 97                | 24               | 100         | O           | 18               | 170                      | 128                       | 255                         | 1650                              | 2744                            | 1310                          | 2620                        |
| APX16250 | M16 x 250 | 133                    | 16      | 105             | 97                | 24               | 100         | Q           | 18               | 170                      | 128                       | 255                         | 1650                              | 2744                            | 1310                          | 2620                        |
| APX20170 | M20 x 170 | 32                     | 20      | 125             | 114               | 30               | 200         | K           | 22               | 200                      | 150                       | 300                         | 2388                              | 4258                            | 1672                          | 3343                        |
| APX20200 | M20 x 200 | 62                     | 20      | 125             | 114               | 30               | 200         | M           | 22               | 200                      | 150                       | 300                         | 2388                              | 4258                            | 1672                          | 3343                        |

## MTP-G

Opt.1 ETA Assessed. ATLANTIS C3-L shaft. A4 Stainless steel clip

| CODE     | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| APG06060 | M6 x 60   | 10                     | 6       | 50              | 46                | 10               | 7           | B           | 7                | 100                      | 60                        | 120                         | 243                               | 352                             | -                             | -                           |
| APG06070 | M6 x 70   | 20                     | 6       | 50              | 46                | 10               | 7           | C           | 7                | 100                      | 60                        | 120                         | 243                               | 352                             | -                             | -                           |
| APG06100 | M6 x 100  | 50                     | 6       | 50              | 46                | 10               | 7           | E           | 7                | 100                      | 60                        | 120                         | 243                               | 352                             | -                             | -                           |
| APG08050 | M8 x 50   | 2                      | 8       | 40              | 37                | 13               | 15          | A           | 9                | 100                      | 72                        | 144                         | 182                               | 392                             | 130                           | 275                         |
| APG08060 | M8 x 60   | 12                     | 8       | 40              | 37                | 13               | 15          | B           | 9                | 100                      | 72                        | 144                         | 182                               | 392                             | 130                           | 275                         |
| APG08075 | M8 x 75   | 9                      | 8       | 60              | 55                | 13               | 15          | C           | 9                | 100                      | 72                        | 144                         | 405                               | 641                             | 243                           | 556                         |
| APG08095 | M8 x 95   | 29                     | 8       | 60              | 55                | 13               | 15          | E           | 9                | 100                      | 72                        | 144                         | 405                               | 641                             | 243                           | 556                         |
| APG08115 | M8 x 115  | 49                     | 8       | 60              | 55                | 13               | 15          | G           | 9                | 100                      | 72                        | 144                         | 405                               | 641                             | 243                           | 556                         |
| APG10070 | M10 x 70  | 5                      | 10      | 60              | 53                | 17               | 40          | C           | 12               | 100                      | 90                        | 180                         | 325                               | 1014                            | 232                           | 1009                        |
| APG10090 | M10 x 90  | 10                     | 10      | 75              | 68                | 17               | 40          | E           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 485                           | 1014                        |
| APG10105 | M10 x 105 | 25                     | 10      | 75              | 68                | 17               | 40          | F           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 485                           | 1014                        |
| APG10115 | M10 x 115 | 35                     | 10      | 75              | 68                | 17               | 40          | G           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 485                           | 1014                        |
| APG10135 | M10 x 135 | 55                     | 10      | 75              | 68                | 17               | 40          | H           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 485                           | 1014                        |
| APG10165 | M10 x 165 | 85                     | 10      | 75              | 68                | 17               | 40          | K           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 485                           | 1014                        |
| APG10185 | M10 x 185 | 105                    | 10      | 75              | 68                | 17               | 40          | L           | 12               | 120                      | 90                        | 180                         | 874                               | 1014                            | 485                           | 1014                        |
| APG12080 | M12 x 80  | 4                      | 12      | 65              | 60                | 19               | 60          | D           | 14               | 100                      | 105                       | 210                         | 585                               | 1474                            | 417                           | 1182                        |
| APG12110 | M12 x 110 | 14                     | 12      | 85              | 80                | 19               | 60          | F           | 14               | 140                      | 105                       | 210                         | 1399                              | 1474                            | 777                           | 1474                        |
| APG12130 | M12 x 130 | 34                     | 12      | 85              | 80                | 19               | 60          | H           | 14               | 140                      | 105                       | 210                         | 1399                              | 1474                            | 777                           | 1474                        |
| APG12150 | M12 x 150 | 54                     | 12      | 85              | 80                | 19               | 60          | I           | 14               | 140                      | 105                       | 210                         | 1399                              | 1474                            | 777                           | 1474                        |
| APG12180 | M12 x 180 | 84                     | 12      | 85              | 80                | 19               | 60          | L           | 14               | 140                      | 105                       | 210                         | 1399                              | 1474                            | 777                           | 1474                        |
| APG12200 | M12 x 200 | 104                    | 12      | 85              | 80                | 19               | 60          | M           | 14               | 140                      | 105                       | 210                         | 1399                              | 1474                            | 777                           | 1474                        |
| APG16125 | M16 x 125 | 8                      | 16      | 105             | 97                | 24               | 100         | G           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1310                          | 2620                        |
| APG16145 | M16 x 145 | 28                     | 16      | 105             | 97                | 24               | 100         | I           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1310                          | 2620                        |
| APG16175 | M16 x 175 | 58                     | 16      | 105             | 97                | 24               | 100         | K           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1310                          | 2620                        |
| APG16220 | M16 x 220 | 103                    | 16      | 105             | 97                | 24               | 100         | O           | 18               | 170                      | 128                       | 255                         | 1747                              | 2744                            | 1310                          | 2620                        |
| APG20170 | M20 x 170 | 32                     | 20      | 125             | 114               | 30               | 200         | K           | 22               | 200                      | 150                       | 300                         | 2388                              | 4258                            | 1456                          | 3343                        |
| APG20200 | M20 x 200 | 62                     | 20      | 125             | 114               | 30               | 200         | M           | 22               | 200                      | 150                       | 300                         | 2388                              | 4258                            | 1456                          | 3343                        |





MTH

Opt.7 ETA Assessed. Zinc-plated shaft. Zinc-plated clip

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AH06060 | M6 x 60   | 2                      | 6       | 55              | 50                | 10               | 7           | B           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06070 | M6 x 70   | 12                     | 6       | 55              | 50                | 10               | 7           | C           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06080 | M6 x 80   | 22                     | 6       | 55              | 50                | 10               | 7           | D           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06090 | M6 x 90   | 32                     | 6       | 55              | 50                | 10               | 7           | E           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06100 | M6 x 100  | 42                     | 6       | 55              | 50                | 10               | 7           | E           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06110 | M6 x 110  | 52                     | 6       | 55              | 50                | 10               | 7           | F           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06120 | M6 x 120  | 62                     | 6       | 55              | 50                | 10               | 7           | G           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06130 | M6 x 130  | 72                     | 6       | 55              | 50                | 10               | 7           | H           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06140 | M6 x 140  | 82                     | 6       | 55              | 50                | 10               | 7           | I           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06150 | M6 x 150  | 92                     | 6       | 55              | 50                | 10               | 7           | I           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06160 | M6 x 160  | 102                    | 6       | 55              | 50                | 10               | 7           | J           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06170 | M6 x 170  | 112                    | 6       | 55              | 50                | 10               | 7           | K           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH06180 | M6 x 180  | 122                    | 6       | 55              | 50                | 10               | 7           | L           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AH08060 | M8 x 60   | 3                      | 8       | 50              | 50                | 13               | 20          | B           | 9                | 100                      | 53                        | 105                         | 485                               | 494                             |
| AH08075 | M8 x 75   | 5                      | 8       | 65              | 60                | 13               | 20          | C           | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AH08090 | M8 x 90   | 20                     | 8       | 65              | 60                | 13               | 20          | E           | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AH08100 | M8 x 100  | 30                     | 8       | 65              | 60                | 13               | 20          | E           | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AH08115 | M8 x 115  | 45                     | 8       | 65              | 60                | 13               | 20          | G           | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AH08120 | M8 x 120  | 50                     | 8       | 65              | 60                | 13               | 20          | G           | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AH08130 | M8 x 130  | 60                     | 8       | 65              | 60                | 13               | 20          | H           | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AH08155 | M8 x 155  | 85                     | 8       | 65              | 60                | 13               | 20          | J           | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AH10070 | M10 x 70  | 3                      | 10      | 60              | 54                | 17               | 35          | C           | 12               | 100                      | 63                        | 126                         | 650                               | 650                             |
| AH10080 | M10 x 80  | 13                     | 10      | 60              | 54                | 17               | 35          | D           | 12               | 100                      | 63                        | 126                         | 650                               | 650                             |
| AH10090 | M10 x 90  | 10                     | 10      | 75              | 67                | 17               | 35          | E           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10100 | M10 x 100 | 20                     | 10      | 75              | 67                | 17               | 35          | E           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10120 | M10 x 120 | 40                     | 10      | 75              | 67                | 17               | 35          | G           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10140 | M10 x 140 | 60                     | 10      | 75              | 67                | 17               | 35          | H           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10150 | M10 x 150 | 70                     | 10      | 75              | 67                | 17               | 35          | I           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10160 | M10 x 160 | 80                     | 10      | 75              | 67                | 17               | 35          | J           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10170 | M10 x 170 | 90                     | 10      | 75              | 67                | 17               | 35          | K           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10210 | M10 x 210 | 130                    | 10      | 75              | 67                | 17               | 35          | N           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH10230 | M10 x 230 | 150                    | 10      | 75              | 67                | 17               | 35          | P           | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AH12090 | M12 x 90  | 13                     | 12      | 70              | 60                | 19               | 60          | E           | 14               | 100                      | 75                        | 150                         | 844                               | 844                             |
| AH12100 | M12 x 100 | 8                      | 12      | 85              | 77                | 19               | 60          | E           | 14               | 130                      | 75                        | 150                         | 1251                              | 1200                            |
| AH12110 | M12 x 110 | 18                     | 12      | 85              | 77                | 19               | 60          | F           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12120 | M12 x 120 | 28                     | 12      | 85              | 77                | 19               | 60          | G           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12130 | M12 x 130 | 38                     | 12      | 85              | 77                | 19               | 60          | H           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12140 | M12 x 140 | 48                     | 12      | 85              | 77                | 19               | 60          | H           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12160 | M12 x 160 | 68                     | 12      | 85              | 77                | 19               | 60          | J           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12180 | M12 x 180 | 88                     | 12      | 85              | 77                | 19               | 60          | L           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12200 | M12 x 200 | 108                    | 12      | 85              | 77                | 19               | 60          | M           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12220 | M12 x 220 | 128                    | 12      | 85              | 77                | 19               | 60          | O           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH12250 | M12 x 250 | 158                    | 12      | 85              | 77                | 19               | 60          | Q           | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AH14120 | M14 x 120 | 12                     | 14      | 100             | 91                | 22               | 90          | G           | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AH14145 | M14 x 145 | 37                     | 14      | 100             | 91                | 22               | 90          | I           | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AH14170 | M14 x 170 | 62                     | 14      | 100             | 91                | 22               | 90          | K           | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AH14220 | M14 x 220 | 112                    | 14      | 100             | 91                | 22               | 90          | O           | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AH14250 | M14 x 250 | 142                    | 14      | 100             | 91                | 22               | 90          | Q           | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AH16125 | M16 x 125 | 3                      | 16      | 110             | 104               | 24               | 120         | G           | 18               | 168                      | 126                       | 252                         | 1887                              | 2237                            |
| AH16145 | M16 x 145 | 23                     | 16      | 110             | 104               | 24               | 120         | I           | 18               | 168                      | 126                       | 252                         | 1887                              | 2237                            |
| AH16170 | M16 x 170 | 48                     | 16      | 110             | 104               | 24               | 120         | K           | 18               | 168                      | 126                       | 252                         | 1887                              | 2237                            |
| AH16220 | M16 x 220 | 98                     | 16      | 110             | 104               | 24               | 120         | O           | 18               | 168                      | 126                       | 252                         | 1887                              | 2237                            |
| AH16250 | M16 x 250 | 128                    | 16      | 110             | 104               | 24               | 120         | Q           | 18               | 168                      | 126                       | 252                         | 1887                              | 2237                            |
| AH16280 | M16 x 280 | 158                    | 16      | 110             | 104               | 24               | 120         | S           | 18               | 168                      | 126                       | 252                         | 1887                              | 2237                            |

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AH20170 | M20 x 170 | 23                     | 20      | 135             | 125               | 30               | 240         | K           | 22               | 206                      | 155                       | 309                         | 2496                              | 3279                            |
| AH20220 | M20 x 220 | 73                     | 20      | 135             | 125               | 30               | 240         | O           | 22               | 206                      | 155                       | 309                         | 2496                              | 3279                            |
| AH20270 | M20 x 270 | 123                    | 20      | 135             | 125               | 30               | 240         | S           | 22               | 206                      | 155                       | 309                         | 2496                              | 3279                            |

**MTH-A4** Opt.7 ETA Assessed. A4 Stainless steel shaft. A4 Stainless steel clip

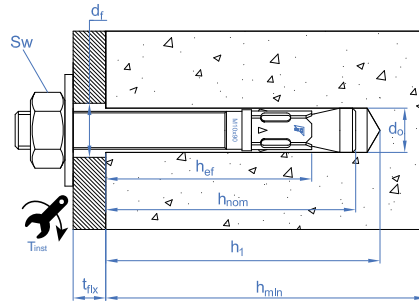
| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| MIA406045 | M6 x 45   | 1                      | 6       | 40              | 35                | 10               | 7           | A           | 7                | 100                      | 40                        | 75                          | 298                               | 287                             |
| MIA406060 | M6 x 60   | 2                      | 6       | 55              | 50                | 10               | 7           | B           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MIA406080 | M6 x 80   | 22                     | 6       | 55              | 50                | 10               | 7           | D           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MIA408050 | M8 x 50   | 4                      | 8       | 40              | 35                | 13               | 20          | A           | 9                | 100                      | 40                        | 75                          | 219                               | 263                             |
| MIA408075 | M8 x 75   | 5                      | 8       | 65              | 60                | 13               | 20          | C           | 9                | 100                      | 72                        | 144                         | 582                               | 522                             |
| MIA408090 | M8 x 90   | 20                     | 8       | 65              | 60                | 13               | 20          | E           | 9                | 100                      | 72                        | 144                         | 582                               | 522                             |
| MIA408115 | M8 x 115  | 45                     | 8       | 65              | 60                | 13               | 20          | G           | 9                | 100                      | 72                        | 144                         | 582                               | 522                             |
| MIA410070 | M10 x 70  | 3                      | 10      | 60              | 54                | 17               | 35          | C           | 12               | 100                      | 60                        | 120                         | 485                               | 650                             |
| MIA410090 | M10 x 90  | 10                     | 10      | 75              | 67                | 17               | 35          | E           | 12               | 110                      | 83                        | 165                         | 647                               | 834                             |
| MIA410120 | M10 x 120 | 40                     | 10      | 75              | 67                | 17               | 35          | G           | 12               | 110                      | 83                        | 165                         | 647                               | 834                             |
| MIA410150 | M10 x 150 | 70                     | 10      | 75              | 67                | 17               | 35          | I           | 12               | 110                      | 83                        | 165                         | 647                               | 834                             |
| MIA412075 | M12 x 75  | 5                      | 12      | 60              | 55                | 19               | 60          | C           | 14               | 100                      | 65                        | 130                         | 561                               | 673                             |
| MIA412090 | M12 x 90  | 13                     | 12      | 70              | 62                | 19               | 60          | D           | 14               | 100                      | 75                        | 90                          | 647                               | 844                             |
| MIA412110 | M12 x 110 | 18                     | 12      | 85              | 77                | 19               | 60          | F           | 14               | 130                      | 98                        | 195                         | 1011                              | 1207                            |
| MIA412140 | M12 x 140 | 48                     | 12      | 85              | 77                | 19               | 60          | I           | 14               | 130                      | 98                        | 195                         | 1011                              | 1207                            |
| MIA416090 | M16 x 90  | 4                      | 16      | 75              | 69                | 24               | 120         | D           | 18               | 100                      | 75                        | 150                         | 683                               | 819                             |
| MIA416145 | M16 x 145 | 23                     | 16      | 110             | 104               | 24               | 120         | I           | 18               | 168                      | 126                       | 252                         | 1416                              | 2256                            |
| MIA416170 | M16 x 170 | 48                     | 16      | 110             | 104               | 24               | 120         | K           | 18               | 168                      | 126                       | 252                         | 1416                              | 2256                            |
| MIA420120 | M20 x 120 | 5                      | 20      | 105             | 93                | 30               | 240         | G           | 22               | 145                      | 110                       | 225                         | 1190                              | 2857                            |
| MIA420170 | M20 x 170 | 23                     | 20      | 135             | 125               | 30               | 240         | K           | 22               | 206                      | 155                       | 309                         | 2023                              | 3521                            |
| MIA420220 | M20 x 220 | 73                     | 20      | 135             | 125               | 30               | 240         | O           | 22               | 206                      | 155                       | 309                         | 2023                              | 3521                            |

**MTH-A2** Opt.7 ETA Assessed. A2 Stainless steel shaft. A2 Stainless steel clip

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | AXIS LETTER | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| MI06045 | M6 x 45   | 1                      | 6       | 40              | 35                | 10               | 7           | A           | 7                | 100                      | 40                        | 75                          | 298                               | 287                             |
| MI06060 | M6 x 60   | 2                      | 6       | 55              | 50                | 10               | 7           | B           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MI06080 | M6 x 80   | 22                     | 6       | 55              | 50                | 10               | 7           | D           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MI06120 | M6 x 120  | 62                     | 6       | 55              | 50                | 10               | 7           | G           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MI06140 | M6 x 140  | 82                     | 6       | 55              | 50                | 10               | 7           | I           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MI06160 | M6 x 160  | 102                    | 6       | 55              | 50                | 10               | 7           | J           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MI06170 | M6 x 170  | 112                    | 6       | 55              | 50                | 10               | 7           | K           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MI06180 | M6 x 180  | 122                    | 6       | 55              | 50                | 10               | 7           | L           | 7                | 100                      | 60                        | 120                         | 438                               | 287                             |
| MI08050 | M8 x 50   | 4                      | 8       | 40              | 35                | 13               | 20          | A           | 9                | 100                      | 40                        | 75                          | 219                               | 263                             |
| MI08075 | M8 x 75   | 5                      | 8       | 65              | 60                | 13               | 20          | C           | 9                | 100                      | 72                        | 144                         | 582                               | 522                             |
| MI08090 | M8 x 90   | 20                     | 8       | 65              | 60                | 13               | 20          | E           | 9                | 100                      | 72                        | 144                         | 582                               | 522                             |
| MI08115 | M8 x 115  | 45                     | 8       | 65              | 60                | 13               | 20          | G           | 9                | 100                      | 72                        | 144                         | 582                               | 522                             |
| MI10070 | M10 x 70  | 3                      | 10      | 60              | 54                | 17               | 35          | C           | 12               | 100                      | 60                        | 120                         | 485                               | 650                             |
| MI10090 | M10 x 90  | 10                     | 10      | 75              | 67                | 17               | 35          | E           | 12               | 110                      | 83                        | 165                         | 647                               | 834                             |
| MI10120 | M10 x 120 | 40                     | 10      | 75              | 67                | 17               | 35          | G           | 12               | 110                      | 83                        | 165                         | 647                               | 834                             |
| MI10150 | M10 x 150 | 70                     | 10      | 75              | 67                | 17               | 35          | I           | 12               | 110                      | 83                        | 165                         | 647                               | 834                             |
| MI12075 | M12 x 75  | 5                      | 12      | 60              | 55                | 19               | 60          | C           | 14               | 100                      | 65                        | 130                         | 561                               | 672                             |
| MI12090 | M12 x 90  | 13                     | 12      | 70              | 62                | 19               | 60          | D           | 14               | 120                      | 75                        | 150                         | 647                               | 844                             |
| MI12110 | M12 x 110 | 18                     | 12      | 85              | 77                | 19               | 60          | F           | 14               | 130                      | 98                        | 195                         | 1011                              | 1207                            |
| MI12140 | M12 x 140 | 48                     | 12      | 85              | 77                | 19               | 60          | I           | 14               | 130                      | 98                        | 195                         | 1011                              | 1207                            |
| MI16090 | M16 x 90  | 4                      | 16      | 75              | 69                | 24               | 120         | D           | 18               | 100                      | 75                        | 150                         | 683                               | 819                             |
| MI16145 | M16 x 145 | 23                     | 16      | 110             | 104               | 24               | 120         | I           | 18               | 168                      | 126                       | 252                         | 1416                              | 2256                            |
| MI16170 | M16 x 170 | 48                     | 16      | 110             | 104               | 24               | 120         | K           | 18               | 168                      | 126                       | 252                         | 1416                              | 2256                            |
| MI20120 | M20 x 120 | 5                      | 20      | 105             | 93                | 30               | 240         | G           | 22               | 145                      | 110                       | 225                         | 1190                              | 2857                            |
| MI20170 | M20 x 170 | 23                     | 20      | 135             | 125               | 30               | 240         | K           | 22               | 206                      | 155                       | 309                         | 2023                              | 3521                            |
| MI20220 | M20 x 220 | 73                     | 20      | 135             | 125               | 30               | 240         | O           | 22               | 206                      | 155                       | 309                         | 2023                              | 3521                            |

# MTA

Through bolt anchor for heavy loads



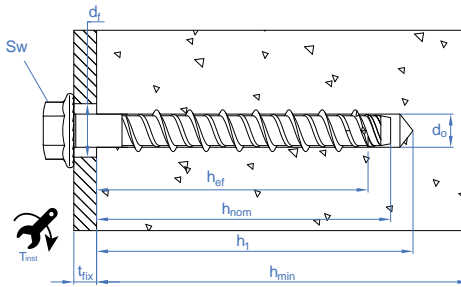
## MTA

Zinc-plated shaft. Zinc-plated clip

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AM06045 | M6 x 45   | 1                      | 6       | 40              | 35                | 10               | 7           | 7                | 100                      | 40                        | 75                          | 298                               | 297                             |
| AM06055 | M6 x 55   | 11                     | 6       | 40              | 35                | 10               | 7           | 7                | 100                      | 40                        | 75                          | 298                               | 297                             |
| AM06060 | M6 x 60   | 2                      | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06065 | M6 x 65   | 7                      | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06070 | M6 x 70   | 12                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06080 | M6 x 80   | 22                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06085 | M6 x 85   | 27                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06090 | M6 x 90   | 32                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06100 | M6 x 100  | 42                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06110 | M6 x 110  | 52                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06120 | M6 x 120  | 62                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06130 | M6 x 130  | 72                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06140 | M6 x 140  | 82                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06150 | M6 x 150  | 92                     | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06160 | M6 x 160  | 102                    | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06170 | M6 x 170  | 112                    | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM06180 | M6 x 180  | 122                    | 6       | 55              | 50                | 10               | 7           | 7                | 100                      | 60                        | 120                         | 385                               | 297                             |
| AM08050 | M8 x 50   | 4                      | 8       | 40              | 35                | 13               | 20          | 9                | 100                      | 40                        | 75                          | 263                               | 263                             |
| AM08060 | M8 x 60   | 3                      | 8       | 50              | 47                | 13               | 20          | 9                | 100                      | 53                        | 105                         | 485                               | 494                             |
| AM08065 | M8 x 65   | 8                      | 8       | 50              | 47                | 13               | 20          | 9                | 100                      | 53                        | 105                         | 485                               | 494                             |
| AM08075 | M8 x 75   | 5                      | 8       | 65              | 60                | 13               | 20          | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AM08090 | M8 x 90   | 20                     | 8       | 65              | 60                | 13               | 20          | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AM08115 | M8 x 115  | 45                     | 8       | 65              | 60                | 13               | 20          | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AM08120 | M8 x 120  | 50                     | 8       | 65              | 60                | 13               | 20          | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AM08130 | M8 x 130  | 60                     | 8       | 65              | 60                | 13               | 20          | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AM08155 | M8 x 155  | 85                     | 8       | 65              | 60                | 13               | 20          | 9                | 100                      | 72                        | 144                         | 676                               | 542                             |
| AM10065 | M10 x 65  | 1                      | 10      | 55              | 52                | 17               | 35          | 12               | 100                      | 60                        | 120                         | 604                               | 604                             |
| AM10070 | M10 x 70  | 3                      | 10      | 60              | 54                | 17               | 35          | 12               | 100                      | 63                        | 125                         | 650                               | 650                             |
| AM10080 | M10 x 80  | 13                     | 10      | 60              | 54                | 17               | 35          | 12               | 100                      | 63                        | 125                         | 667                               | 667                             |
| AM10090 | M10 x 90  | 10                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM10100 | M10 x 100 | 15                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | -                                 | -                               |
| AM10120 | M10 x 120 | 20                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM10140 | M10 x 140 | 40                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM10150 | M10 x 150 | 60                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM10160 | M10 x 160 | 70                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM10170 | M10 x 170 | 80                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM10210 | M10 x 210 | 90                     | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM10230 | M10 x 230 | 130                    | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM12075 | M12 x 75  | 150                    | 10      | 75              | 67                | 17               | 35          | 12               | 110                      | 83                        | 165                         | 922                               | 856                             |
| AM12080 | M12 x 80  | 5                      | 12      | 60              | 55                | 19               | 60          | 14               | 100                      | 65                        | 130                         | 673                               | 673                             |
| AM12090 | M12 x 90  | 3                      | 12      | 70              | 62                | 19               | 60          | 14               | 100                      | 75                        | 150                         | 844                               | 844                             |
| AM12100 | M12 x 100 | 13                     | 12      | 70              | 62                | 19               | 60          | 14               | 100                      | 75                        | 150                         | 844                               | 844                             |
| AM12110 | M12 x 110 | 8                      | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AM12120 | M12 x 120 | 18                     | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AM12140 | M12 x 140 | 28                     | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AM12160 | M12 x 160 | 48                     | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AM12180 | M12 x 180 | 68                     | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AM12220 | M12 x 220 | 88                     | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AM12250 | M12 x 250 | 128                    | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AM14080 | M14 x 80  | 158                    | 12      | 85              | 77                | 19               | 60          | 14               | 130                      | 98                        | 195                         | 1251                              | 1200                            |
| AM14100 | M14 x 100 | 5                      | 14      | 65              | 59                | 22               | 90          | 16               | 100                      | 65                        | 130                         | 650                               | 650                             |
| AM14120 | M14 x 120 | 5                      | 14      | 85              | 69                | 22               | 90          | 16               | 125                      | 95                        | 190                         | 1166                              | 1637                            |
| AM14145 | M14 x 145 | 12                     | 14      | 100             | 91                | 22               | 90          | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AM14170 | M14 x 170 | 37                     | 14      | 100             | 91                | 22               | 90          | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AM14220 | M14 x 220 | 62                     | 14      | 100             | 91                | 22               | 90          | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AM14250 | M14 x 250 | 112                    | 14      | 100             | 91                | 22               | 90          | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AM16090 | M16 x 90  | 142                    | 14      | 100             | 91                | 22               | 90          | 16               | 150                      | 113                       | 225                         | 1551                              | 1637                            |
| AM16110 | M16 x 110 | 4                      | 16      | 75              | 69                | 24               | 120         | 18               | 100                      | 75                        | 150                         | 819                               | 819                             |
| AM16125 | M16 x 125 | 7                      | 16      | 75              | 69                | 24               | 120         | 18               | 100                      | 75                        | 150                         | 1838                              | 2237                            |
| AM16145 | M16 x 145 | 3                      | 16      | 110             | 104               | 24               | 120         | 18               | 168                      | 126                       | 252                         | 1838                              | 2237                            |
| AM16170 | M16 x 170 | 23                     | 16      | 110             | 104               | 24               | 120         | 18               | 168                      | 126                       | 252                         | 1838                              | 2237                            |
| AM16220 | M16 x 220 | 48                     | 16      | 110             | 104               | 24               | 120         | 18               | 168                      | 126                       | 252                         | 1838                              | 2237                            |
| AM16250 | M16 x 250 | 98                     | 16      | 110             | 104               | 24               | 120         | 18               | 168                      | 126                       | 252                         | 1838                              | 2237                            |
| AM16280 | M16 x 280 | 128                    | 16      | 110             | 104               | 24               | 120         | 18               | 168                      | 126                       | 252                         | 1838                              | 2237                            |
| AM20120 | M20 x 120 | 158                    | 16      | 110             | 104               | 24               | 120         | 18               | 168                      | 126                       | 252                         | 1838                              | 2237                            |
| AM20170 | M20 x 170 | 30                     | 20      | 105             | 93                | 30               | 240         | 22               | 145                      | 110                       | 225                         | -                                 | -                               |
| AM20220 | M20 x 220 | 23                     | 20      | 135             | 125               | 30               | 240         | 22               | 206                      | 155                       | 309                         | 2496                              | 3279                            |
| AM20270 | M20 x 270 | 73                     | 20      | 135             | 125               | 30               | 240         | 22               | 206                      | 155                       | 309                         | 2496                              | 3279                            |
| AM24180 | M24 x 180 | 123                    | 20      | 135             | 125               | 30               | 240         | 22               | 206                      | 155                       | 309                         | 2496                              | 3279                            |
| AM24260 | M24 x 260 | 10                     | 24      | 155             | 143               | 36               | 250         | 26               | 250                      | 200                       | 400                         | 2023                              | 4934                            |

## TH Self-tapping concrete screwbolt



## THE Hexagon head. ATLANTIS C3-H coating. Opt.1 ETA Assessed

| CODE     | MXL       | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|-----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| THE05040 | Ø5 x 40   | 40     | 5       | 45              | 80                       | 8                | 35                | 5                      | 8           | 40                        | 80                          | 8                | 326                               | 326                             | 228                           | 228                         |
| THE05050 | Ø5 x 50   | 50     | 5       | 55              | 80                       | 8                | 45                | 5                      | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| THE05060 | Ø5 x 60   | 60     | 5       | 55              | 80                       | 8                | 45                | 15                     | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| THE05080 | Ø5 x 80   | 80     | 5       | 55              | 80                       | 8                | 45                | 35                     | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| THE05100 | Ø5 x 100  | 100    | 5       | 55              | 80                       | 8                | 45                | 55                     | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| THE06040 | Ø6 x 40   | 40     | 6       | 45              | 100                      | 9                | 35                | 5                      | 10          | 39                        | 78                          | 10               | 202                               | 608                             | 185                           | 454                         |
| THE06050 | Ø6 x 50   | 50     | 6       | 45              | 100                      | 9                | 35                | 15                     | 10          | 39                        | 78                          | 10               | 202                               | 608                             | 185                           | 454                         |
| THE06060 | Ø6 x 60   | 60     | 6       | 65              | 100                      | 9                | 55                | 5                      | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| THE06070 | Ø6 x 70   | 70     | 6       | 65              | 100                      | 9                | 55                | 15                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| THE06080 | Ø6 x 80   | 80     | 6       | 65              | 100                      | 9                | 55                | 25                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| THE06100 | Ø6 x 100  | 100    | 6       | 65              | 100                      | 9                | 55                | 45                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| THE06120 | Ø6 x 120  | 120    | 6       | 65              | 100                      | 9                | 55                | 65                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| THE08055 | Ø8 x 55   | 55     | 8       | 60              | 100                      | 12               | 50                | 5                      | 20          | 57                        | 113                         | 13               | 457                               | 950                             | 320                           | 691                         |
| THE08060 | Ø8 x 60   | 60     | 8       | 60              | 100                      | 12               | 50                | 10                     | 20          | 57                        | 113                         | 13               | 457                               | 950                             | 320                           | 691                         |
| THE08070 | Ø8 x 70   | 70     | 8       | 75              | 100                      | 12               | 65                | 5                      | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| THE08080 | Ø8 x 80   | 80     | 8       | 75              | 100                      | 12               | 65                | 15                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| THE08090 | Ø8 x 90   | 90     | 8       | 75              | 100                      | 12               | 65                | 25                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| THE08100 | Ø8 x 100  | 100    | 8       | 75              | 100                      | 12               | 65                | 35                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| THE08110 | Ø8 x 110  | 110    | 8       | 75              | 100                      | 12               | 65                | 45                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| THE08120 | Ø8 x 120  | 120    | 8       | 75              | 100                      | 12               | 65                | 55                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| THE08140 | Ø8 x 140  | 140    | 8       | 75              | 100                      | 12               | 65                | 75                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| THE10060 | Ø10 x 60  | 60     | 10      | 65              | 100                      | 14               | 55                | 5                      | 30          | 63                        | 125                         | 15               | 638                               | 1245                            | 447                           | 871                         |
| THE10070 | Ø10 x 70  | 70     | 10      | 65              | 100                      | 14               | 55                | 15                     | 30          | 63                        | 125                         | 15               | 638                               | 1245                            | 447                           | 871                         |
| THE10080 | Ø10 x 80  | 80     | 10      | 65              | 100                      | 14               | 55                | 25                     | 30          | 63                        | 125                         | 15               | 638                               | 1245                            | 447                           | 871                         |
| THE10090 | Ø10 x 90  | 90     | 10      | 95              | 135                      | 14               | 85                | 5                      | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |
| THE10100 | Ø10 x 100 | 100    | 10      | 95              | 135                      | 14               | 85                | 15                     | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |
| THE10120 | Ø10 x 120 | 120    | 10      | 95              | 135                      | 14               | 85                | 35                     | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |

| CODE     | MXL       | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|-----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| THE10140 | Ø10 x 140 | 140    | 10      | 95              | 135                      | 14               | 85                | 55                     | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |
| THE12080 | Ø12 x 80  | 80     | 12      | 90              | 120                      | 16               | 75                | 5                      | 50          | 87                        | 174                         | 18               | 1055                              | 1808                            | 738                           | 1720                        |
| THE12090 | Ø12 x 90  | 90     | 12      | 90              | 120                      | 16               | 75                | 15                     | 50          | 87                        | 174                         | 18               | 1055                              | 1808                            | 738                           | 1720                        |
| THE12110 | Ø12 x 110 | 110    | 12      | 120             | 170                      | 16               | 105               | 5                      | 50          | 126                       | 251                         | 18               | 1822                              | 1808                            | 1275                          | 1808                        |
| THE12130 | Ø12 x 130 | 130    | 12      | 120             | 170                      | 16               | 105               | 25                     | 50          | 126                       | 251                         | 18               | 1822                              | 1808                            | 1275                          | 1808                        |
| THE12150 | Ø12 x 150 | 150    | 12      | 120             | 170                      | 16               | 105               | 45                     | 50          | 126                       | 251                         | 18               | 1822                              | 1808                            | 1275                          | 1808                        |
| THE14080 | Ø14 x 80  | 80     | 14      | 90              | 120                      | 18               | 75                | 5                      | 70          | 87                        | 174                         | 21               | 1055                              | 2559                            | 738                           | 1883                        |
| THE14100 | Ø14 x 100 | 100    | 14      | 90              | 120                      | 18               | 75                | 25                     | 70          | 87                        | 174                         | 21               | 1055                              | 2559                            | 738                           | 1883                        |
| THE14120 | Ø14 x 120 | 120    | 14      | 130             | 185                      | 18               | 115               | 5                      | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| THE14130 | Ø14 x 130 | 130    | 14      | 130             | 185                      | 18               | 115               | 15                     | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| THE14140 | Ø14 x 140 | 140    | 14      | 130             | 185                      | 18               | 115               | 25                     | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| THE14160 | Ø14 x 160 | 160    | 14      | 130             | 185                      | 18               | 115               | 45                     | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| THE16100 | Ø16 x 100 | 100    | -       | -               | -                        | -                | -                 | -                      | -           | -                         | -                           | -                | -                                 | -                               | -                             | -                           |
| THE16150 | Ø16 x 150 | 150    | -       | -               | -                        | -                | -                 | -                      | -           | -                         | -                           | -                | -                                 | -                               | -                             | -                           |
| THE18100 | Ø18 x 100 | 100    | 18      | 110             | 140                      | 22               | 90                | 10                     | 90          | 105                       | 209                         | 24               | 1384                              | 3680                            | 968                           | 2576                        |
| THE18130 | Ø18 x 130 | 130    | 18      | 110             | 140                      | 22               | 90                | 40                     | 90          | 105                       | 209                         | 24               | 1384                              | 3680                            | 968                           | 2576                        |
| THE18160 | Ø18 x 160 | 160    | 18      | 160             | 225                      | 22               | 140               | 20                     | 90          | 168                       | 336                         | 24               | 2830                              | 3921                            | 1981                          | 3921                        |
| THE18180 | Ø18 x 180 | 180    | 18      | 160             | 225                      | 22               | 140               | 40                     | 90          | 168                       | 336                         | 24               | 2830                              | 3921                            | 1981                          | 3921                        |
| THE18200 | Ø18 x 200 | 200    | 18      | 160             | 225                      | 22               | 140               | 60                     | 90          | 168                       | 336                         | 24               | 2830                              | 3921                            | 1981                          | 3921                        |

**THA** Countersunk head. ATLANTIS C3-H coating. Opt.1 ETA Assessed

| CODE     | MXL       | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|-----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| THA05040 | Ø5 x 40   | 40     | 5       | 45              | 80                       | 8                | 35                | 5                      | 8           | 40                        | 80                          | TX25             | 326                               | 326                             | 228                           | 228                         |
| THA05060 | Ø5 x 60   | 60     | 5       | 55              | 80                       | 8                | 45                | 15                     | 8           | 53                        | 105                         | TX25             | 494                               | 398                             | 346                           | 346                         |
| THA05080 | Ø5 x 80   | 80     | 5       | 55              | 80                       | 8                | 45                | 35                     | 8           | 53                        | 105                         | TX25             | 494                               | 398                             | 346                           | 346                         |
| THA05100 | Ø5 x 100  | 100    | 5       | 55              | 80                       | 8                | 45                | 55                     | 8           | 53                        | 105                         | TX25             | 494                               | 398                             | 346                           | 346                         |
| THA06045 | Ø6 x 45   | 45     | 6       | 45              | 100                      | 9                | 35                | 10                     | 10          | 39                        | 78                          | TX30             | 202                               | 608                             | 185                           | 454                         |
| THA06050 | Ø6 x 50   | 50     | 6       | 45              | 100                      | 9                | 35                | 15                     | 10          | 39                        | 78                          | TX30             | 202                               | 608                             | 185                           | 454                         |
| THA06060 | Ø6 x 60   | 60     | 6       | 65              | 100                      | 9                | 55                | 5                      | 10          | 65                        | 129                         | TX30             | 673                               | 608                             | 471                           | 542                         |
| THA06080 | Ø6 x 80   | 80     | 6       | 65              | 100                      | 9                | 55                | 25                     | 10          | 65                        | 129                         | TX30             | 673                               | 608                             | 471                           | 542                         |
| THA06120 | Ø6 x 120  | 120    | 6       | 65              | 100                      | 9                | 55                | 65                     | 10          | 65                        | 129                         | TX30             | 673                               | 608                             | 471                           | 542                         |
| THA06140 | Ø6 x 140  | 140    | 6       | 65              | 100                      | 9                | 55                | 85                     | 10          | 65                        | 129                         | TX30             | 673                               | 608                             | 471                           | 542                         |
| THA08060 | Ø8 x 60   | 60     | 8       | 60              | 100                      | 12               | 50                | 10                     | 20          | 57                        | 113                         | TX45             | 457                               | 950                             | 320                           | 691                         |
| THA08080 | Ø8 x 80   | 80     | 8       | 75              | 100                      | 12               | 65                | 15                     | 20          | 76                        | 152                         | TX45             | 857                               | 950                             | 600                           | 762                         |
| THA08100 | Ø8 x 100  | 100    | 8       | 75              | 100                      | 12               | 65                | 35                     | 20          | 76                        | 152                         | TX45             | 857                               | 950                             | 600                           | 762                         |
| THA08120 | Ø8 x 120  | 120    | 8       | 75              | 100                      | 12               | 65                | 55                     | 20          | 76                        | 152                         | TX45             | 857                               | 950                             | 600                           | 762                         |
| THA10100 | Ø10 x 100 | 100    | 10      | 95              | 135                      | 14               | 85                | 15                     | 30          | 101                       | 201                         | TX50             | 1310                              | 1330                            | 600                           | 762                         |
| THA10120 | Ø10 x 120 | 120    | 10      | 95              | 135                      | 14               | 85                | 35                     | 30          | 101                       | 201                         | TX50             | 1310                              | 1330                            | 600                           | 762                         |

**THP** Pan head. ATLANTIS C3-H coating. Opt.1 ETA Assessed

| CODE     | MXL      | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| THP05040 | Ø5 x 40  | 40     | 5       | 45              | 80                       | 8                | 35                | 5                      | 8           | 40                        | 80                          | TX30             | 326                               | 326                             | 228                           | 228                         |
| THP05060 | Ø5 x 60  | 60     | 5       | 65              | 80                       | 8                | 55                | 15                     | 8           | 53                        | 105                         | TX30             | 494                               | 398                             | 346                           | 346                         |
| THP06040 | Ø6 x 40  | 40     | 6       | 45              | 100                      | 9                | 35                | 5                      | 10          | 39                        | 78                          | TX40             | 202                               | 608                             | 185                           | 454                         |
| THP06050 | Ø6 x 50  | 50     | 6       | 45              | 100                      | 9                | 35                | 15                     | 10          | 39                        | 78                          | TX40             | 202                               | 608                             | 185                           | 454                         |
| THP06060 | Ø6 x 60  | 60     | 6       | 65              | 100                      | 9                | 55                | 5                      | 10          | 65                        | 129                         | TX40             | 673                               | 608                             | 471                           | 542                         |
| THP06080 | Ø6 x 80  | 80     | 6       | 65              | 100                      | 9                | 55                | 25                     | 10          | 65                        | 129                         | TX40             | 673                               | 608                             | 471                           | 542                         |
| THP06100 | Ø6 x 100 | 100    | 6       | 65              | 100                      | 9                | 55                | 45                     | 10          | 65                        | 129                         | TX40             | 673                               | 608                             | 471                           | 542                         |
| THP08060 | Ø8 x 60  | 60     | 8       | 60              | 100                      | 12               | 50                | 10                     | 20          | 57                        | 113                         | TX45             | 457                               | 950                             | 320                           | 691                         |
| THP08080 | Ø8 x 80  | 80     | 8       | 75              | 100                      | 12               | 65                | 15                     | 20          | 76                        | 152                         | TX45             | 857                               | 950                             | 600                           | 762                         |

**THT** Truss head. ATLANTIS C3-H coating. Opt.1 ETA Assessed

| CODE     | MXL     | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|---------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| THT06040 | Ø6 x 40 | 40     | 6       | 45              | 100                      | 9                | 35                | 5                      | 10          | 39                        | 78                          | TX30             | 202                               | 608                             | 185                           | 454                         |
| THT06050 | Ø6 x 50 | 50     | 6       | 45              | 100                      | 9                | 35                | 15                     | 10          | 39                        | 78                          | TX30             | 202                               | 608                             | 185                           | 454                         |
| THT06060 | Ø6 x 60 | 60     | 6       | 65              | 100                      | 9                | 55                | 5                      | 10          | 65                        | 129                         | TX30             | 673                               | 608                             | 471                           | 542                         |

**TFE** Hexagon head. Zinc-plated coating. Opt.1 ETA Assessed

| CODE     | MXL      | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| TFE05040 | Ø5 x 40  | 40     | 5       | 45              | 80                       | 8                | 35                | 5                      | 8           | 40                        | 80                          | 8                | 326                               | 326                             | 228                           | 228                         |
| TFE05050 | Ø5 x 50  | 50     | 5       | 55              | 80                       | 8                | 45                | 5                      | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| TFE05060 | Ø5 x 60  | 60     | 5       | 55              | 80                       | 8                | 45                | 15                     | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| TFE05080 | Ø5 x 80  | 80     | 5       | 55              | 80                       | 8                | 45                | 35                     | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| TFE05100 | Ø5 x 100 | 100    | 5       | 55              | 80                       | 8                | 45                | 55                     | 8           | 53                        | 105                         | 8                | 494                               | 398                             | 346                           | 346                         |
| TFE06040 | Ø6 x 40  | 40     | 6       | 45              | 100                      | 9                | 35                | 5                      | 10          | 39                        | 78                          | 10               | 202                               | 608                             | 185                           | 454                         |
| TFE06050 | Ø6 x 50  | 50     | 6       | 45              | 100                      | 9                | 35                | 15                     | 10          | 39                        | 78                          | 10               | 202                               | 608                             | 185                           | 454                         |
| TFE06060 | Ø6 x 60  | 60     | 6       | 65              | 100                      | 9                | 55                | 5                      | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| TFE06070 | Ø6 x 70  | 70     | 6       | 65              | 100                      | 9                | 55                | 15                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |

| CODE     | MXL       | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|-----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| TFE06080 | Ø6 x 80   | 80     | 6       | 65              | 100                      | 9                | 55                | 25                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| TFE06100 | Ø6 x 100  | 100    | 6       | 65              | 100                      | 9                | 55                | 45                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| TFE06120 | Ø6 x 120  | 120    | 6       | 65              | 100                      | 9                | 55                | 65                     | 10          | 65                        | 129                         | 10               | 673                               | 608                             | 471                           | 542                         |
| TFE08055 | Ø8 x 55   | 55     | 8       | 60              | 100                      | 12               | 50                | 5                      | 20          | 57                        | 113                         | 13               | 457                               | 950                             | 320                           | 691                         |
| TFE08060 | Ø8 x 60   | 60     | 8       | 60              | 100                      | 12               | 50                | 10                     | 20          | 57                        | 113                         | 13               | 457                               | 950                             | 320                           | 691                         |
| TFE08070 | Ø8 x 70   | 70     | 8       | 75              | 100                      | 12               | 65                | 5                      | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| TFE08080 | Ø8 x 80   | 80     | 8       | 75              | 100                      | 12               | 65                | 15                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| TFE08090 | Ø8 x 90   | 90     | 8       | 75              | 100                      | 12               | 65                | 25                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| TFE08100 | Ø8 x 100  | 100    | 8       | 75              | 100                      | 12               | 65                | 35                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| TFE08110 | Ø8 x 110  | 110    | 8       | 75              | 100                      | 12               | 65                | 45                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| TFE08120 | Ø8 x 120  | 120    | 8       | 75              | 100                      | 12               | 65                | 55                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| TFE08140 | Ø8 x 140  | 140    | 8       | 75              | 100                      | 12               | 65                | 75                     | 20          | 76                        | 152                         | 13               | 857                               | 950                             | 600                           | 762                         |
| TFE10060 | Ø10 x 60  | 60     | 10      | 65              | 100                      | 14               | 55                | 5                      | 30          | 63                        | 125                         | 15               | 638                               | 1245                            | 447                           | 871                         |
| TFE10070 | Ø10 x 70  | 70     | 10      | 65              | 100                      | 14               | 55                | 15                     | 30          | 63                        | 125                         | 15               | 638                               | 1245                            | 447                           | 871                         |
| TFE10080 | Ø10 x 80  | 80     | 10      | 85              | 120                      | 14               | 75                | 25                     | 30          | 88                        | 176                         | 15               | 638                               | 1245                            | 447                           | 871                         |
| TFE10090 | Ø10 x 90  | 90     | 10      | 95              | 135                      | 14               | 85                | 5                      | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |
| TFE10100 | Ø10 x 100 | 100    | 10      | 95              | 135                      | 14               | 85                | 15                     | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |
| TFE10120 | Ø10 x 120 | 120    | 10      | 95              | 135                      | 14               | 85                | 35                     | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |
| TFE10140 | Ø10 x 140 | 140    | 10      | 95              | 135                      | 14               | 85                | 55                     | 30          | 101                       | 201                         | 15               | 1310                              | 1330                            | 917                           | 1330                        |
| TFE12080 | Ø12 x 80  | 80     | 12      | 90              | 120                      | 16               | 75                | 5                      | 50          | 87                        | 174                         | 18               | 1055                              | 1808                            | 738                           | 1720                        |
| TFE12090 | Ø12 x 90  | 90     | 12      | 90              | 120                      | 16               | 75                | 15                     | 50          | 87                        | 174                         | 18               | 1055                              | 1808                            | 738                           | 1720                        |
| TFE12110 | Ø12 x 110 | 110    | 12      | 120             | 170                      | 16               | 105               | 5                      | 50          | 126                       | 251                         | 18               | 1822                              | 1808                            | 1275                          | 1808                        |
| TFE12130 | Ø12 x 130 | 130    | 12      | 120             | 170                      | 16               | 105               | 25                     | 50          | 126                       | 251                         | 18               | 1822                              | 1808                            | 1275                          | 1808                        |
| TFE12150 | Ø12 x 150 | 150    | 12      | 120             | 170                      | 16               | 105               | 45                     | 50          | 126                       | 251                         | 18               | 1822                              | 1808                            | 1275                          | 1808                        |
| TFE14080 | Ø14 x 80  | 80     | 14      | 90              | 120                      | 18               | 75                | 5                      | 70          | 87                        | 174                         | 21               | 1055                              | 2559                            | 738                           | 1883                        |
| TFE14100 | Ø14 x 100 | 100    | 14      | 90              | 120                      | 18               | 75                | 25                     | 70          | 87                        | 174                         | 21               | 1055                              | 2559                            | 738                           | 1883                        |
| TFE14120 | Ø14 x 120 | 120    | 14      | 130             | 185                      | 18               | 115               | 5                      | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| TFE14130 | Ø14 x 130 | 130    | 14      | 130             | 185                      | 18               | 115               | 15                     | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| TFE14140 | Ø14 x 140 | 140    | 14      | 130             | 185                      | 18               | 115               | 25                     | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| TFE14160 | Ø14 x 160 | 160    | 14      | 130             | 185                      | 18               | 115               | 45                     | 70          | 138                       | 276                         | 21               | 2107                              | 2559                            | 1475                          | 2559                        |
| TFE16100 | Ø16 x 100 | 100    | -       | -               | -                        | -                | -                 | -                      | -           | -                         | -                           | -                | -                                 | -                               | -                             | -                           |
| TFE16150 | Ø16 x 150 | 150    | -       | -               | -                        | -                | -                 | -                      | -           | -                         | -                           | -                | -                                 | -                               | -                             | -                           |
| TFE18100 | Ø18 x 100 | 100    | 18      | 110             | 140                      | 22               | 90                | 10                     | 90          | 105                       | 209                         | 24               | 1384                              | 3680                            | 968                           | 2576                        |
| TFE18130 | Ø18 x 130 | 130    | 18      | 110             | 140                      | 22               | 90                | 40                     | 90          | 105                       | 209                         | 24               | 1384                              | 3680                            | 968                           | 2576                        |
| TFE18160 | Ø18 x 160 | 160    | 18      | 160             | 225                      | 22               | 140               | 20                     | 90          | 168                       | 336                         | 24               | 2830                              | 3921                            | 1981                          | 3921                        |
| TFE18180 | Ø18 x 180 | 180    | 18      | 160             | 225                      | 22               | 140               | 40                     | 90          | 168                       | 336                         | 24               | 2830                              | 3921                            | 1981                          | 3921                        |
| TFE18200 | Ø18 x 200 | 200    | 18      | 160             | 225                      | 22               | 140               | 60                     | 90          | 168                       | 336                         | 24               | 2830                              | 3921                            | 1981                          | 3921                        |

**TFN** Hexagon head without nut. Zinc-plated coating. Opt.1 ETA Assessed

| CODE     | MXL      | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| TFN14080 | Ø14 x 80 | 80     | 14      | 90              | 120                      | 18               | 75                | 5                      | 70          | 87                        | 174                         | 24               | 1055                              | 2559                            | 738                           | 1883                        |

**TFS** Stud bolt. Zinc-plated coating. Opt.1 ETA Assessed

| CODE     | MXL       | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|-----------|--------|---------|-----------------|--------------------------|------------------|-------------------|------------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| TFS06100 | Ø6 x 100  | 100    | 6       | 65              | 100                      | 9                | 55                | 35                     | 10          | 65                        | 129                         | 5                | 673                               | 608                             | 471                           | 542                         |
| TFS06120 | Ø6 x 120  | 120    | 6       | 65              | 100                      | 9                | 55                | 55                     | 10          | 65                        | 129                         | 5                | 673                               | 608                             | 471                           | 542                         |
| TFS08110 | Ø8 x 110  | 110    | 8       | 75              | 100                      | 12               | 65                | 32                     | 20          | 76                        | 152                         | 7                | 857                               | 950                             | 600                           | 762                         |
| TFS08130 | Ø8 x 130  | 130    | 8       | 75              | 100                      | 12               | 65                | 52                     | 20          | 76                        | 152                         | 7                | 857                               | 950                             | 600                           | 762                         |
| TFS10120 | Ø10 x 120 | 120    | 10      | 85              | 120                      | 14               | 75                | 27                     | 30          | 88                        | 176                         | 8                | 1068                              | 1330                            | 748                           | 987                         |
| TFS10140 | Ø10 x 140 | 140    | 10      | 85              | 120                      | 14               | 75                | 47                     | 30          | 88                        | 176                         | 8                | 1068                              | 1330                            | 748                           | 987                         |

**TFF** Hanger female. Zinc-plated coating. Opt.1 ETA Assessed

| CODE     | MXL     | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|---------|--------|---------|-----------------|--------------------------|------------------|-------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| TFF06035 | Ø6 x 35 | 35     | 6       | 45              | 100                      | --               | 35                | 10          | 39                        | 78                          | 13               | 202                               | 608                             | 185                           | 454                         |
| TFF06055 | Ø6 x 55 | 55     | 6       | 55              | 100                      | --               | 55                | 10          | 65                        | 129                         | 13               | 673                               | 608                             | 471                           | 542                         |

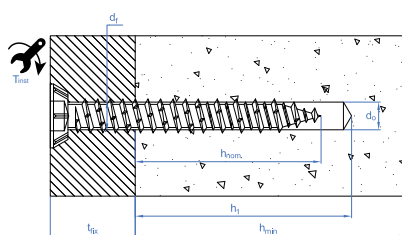
**TFM** Hanger male. Zinc-plated coating. Opt.1 ETA Assessed

| CODE     | MXL     | LENGTH | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | Ø ELEMENT TO FIX | MIN. ANCHOR DEPTH | TORQUE (NM) | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | INSTALLATION KEY | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|----------|---------|--------|---------|-----------------|--------------------------|------------------|-------------------|-------------|---------------------------|-----------------------------|------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| TFM06035 | Ø6 x 35 | 35     | 6       | 45              | 100                      | --               | 35                | 10          | 39                        | 78                          | 13               | 202                               | 608                             | 185                           | 454                         |
| TFM06055 | Ø6 x 55 | 55     | 6       | 55              | 100                      | --               | 55                | 10          | 65                        | 129                         | 13               | 673                               | 608                             | 471                           | 542                         |



# HO

## Concrete screw



### HP

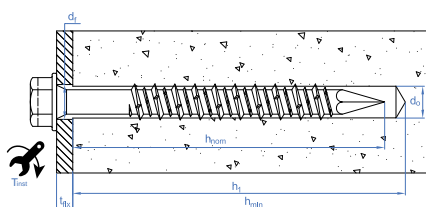
Flat head, TX recess. Yellow zinc-plated

| CODE     | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|-----------------------------------|---------------------------------|
| HP75072  | 7,5 x 72  | 32                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HP75092  | 7,5 x 92  | 52                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HP75112  | 7,5 x 112 | 72                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HP75132  | 7,5 x 132 | 92                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HP75152  | 7,5 x 152 | 112                    | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HP75182  | 7,5 x 182 | 142                    | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HPZ75072 | 7,5 x 72  | 32                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HPZ75092 | 7,5 x 92  | 52                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HPZ75112 | 7,5 x 112 | 72                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HPZ75132 | 7,5 x 132 | 92                     | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HPZ75152 | 7,5 x 152 | 112                    | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HPZ75182 | 7,5 x 182 | 142                    | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |
| HPZ75212 | 7,5 x 212 | 172                    | 6       | 45              | 40                | TX30             | 20          | 9                | 100                      | 100                               | -                               |

### HR

Cylindrical head Tx

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HR75072 | 7,5 x 72  | 32                     | 6       | 45              | 40                | TX25             | 15          | 9                | 100                      | -                         | -                           | 100                               | -                               |
| HR75092 | 7,5 x 92  | 52                     | 6       | 45              | 40                | TX25             | 15          | 9                | 100                      | -                         | -                           | 100                               | -                               |
| HR75112 | 7,5 x 112 | 72                     | 6       | 45              | 40                | TX25             | 15          | 9                | 100                      | -                         | -                           | 100                               | -                               |
| HR75132 | 7,5 x 132 | 92                     | 6       | 45              | 40                | TX25             | 15          | 9                | 100                      | -                         | -                           | 100                               | -                               |



### HEA

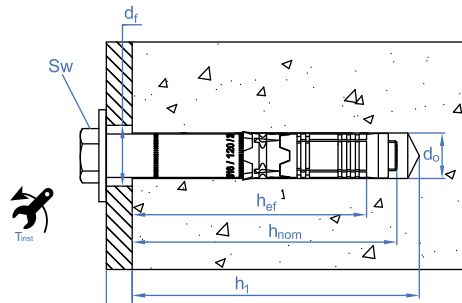
Screw

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|-----------------------------------|---------------------------------|
| HE65032 | 6,5 x 32  | 2                      | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65045 | 6,5 x 45  | 15                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65057 | 6,5 x 57  | 27                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65070 | 6,5 x 70  | 40                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65080 | 6,5 x 80  | 50                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65100 | 6,5 x 100 | 70                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65115 | 6,5 x 115 | 85                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65125 | 6,5 x 125 | 95                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65150 | 6,5 X 150 | 120                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65180 | 6,5 X 180 | 150                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65200 | 6,5 X 200 | 170                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE65230 | 6,5 X 230 | 200                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |

## HEA + ARVUL Screw with vulcanized EPDM-steel washer

| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|-----------------------------------|---------------------------------|
| HE1665032 | 6,5 x 32  | 2                      | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665045 | 6,5 x 45  | 15                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665057 | 6,5 x 57  | 27                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665070 | 6,5 x 70  | 40                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665080 | 6,5 x 80  | 50                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665100 | 6,5 x 100 | 70                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665115 | 6,5 x 115 | 85                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665125 | 6,5 x 125 | 95                     | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665150 | 6,5 X 150 | 120                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665180 | 6,5 X 180 | 150                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665200 | 6,5 X 200 | 170                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |
| HE1665230 | 6,5 X 230 | 200                    | 5       | 35              | 30                | 8+ ranura        | 12          | 8                | 100                      | 65                                | -                               |

## SL Heavy duty anchor for high performance in concrete



## SL-PT Opt.1 ETA Assessed. Hexagonal head

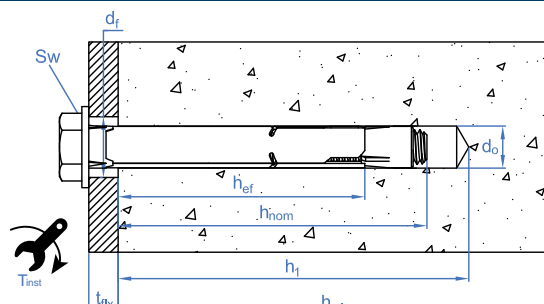
| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| SLPT10070 | M6 x 70   | 10                     | 10      | 70              | 59                | 10               | 15          | 12               | 100                      | 75                        | 150                         | 782                               | 844                             | 591                           | 591                         |
| SLPT10080 | M6 x 80   | 20                     | 10      | 70              | 59                | 10               | 15          | 12               | 100                      | 75                        | 150                         | 782                               | 844                             | 591                           | 591                         |
| SLPT10100 | M6x 100   | 40                     | 10      | 70              | 59                | 10               | 15          | 12               | 100                      | 75                        | 150                         | 782                               | 844                             | 591                           | 591                         |
| SLPT10110 | M6 x 110  | 50                     | 10      | 70              | 59                | 10               | 15          | 12               | 100                      | 75                        | 150                         | 782                               | 844                             | 591                           | 591                         |
| SLPT12080 | M8 x 80   | 5                      | 12      | 85              | 72                | 13               | 30          | 14               | 120                      | 90                        | 180                         | 1110                              | 1922                            | 777                           | 1554                        |
| SLPT12090 | M8 x 90   | 15                     | 12      | 85              | 72                | 13               | 30          | 14               | 120                      | 90                        | 180                         | 1110                              | 1922                            | 777                           | 1554                        |
| SLPT12100 | M8 x 100  | 25                     | 12      | 85              | 72                | 13               | 30          | 14               | 120                      | 90                        | 180                         | 1110                              | 1922                            | 777                           | 1554                        |
| SLPT12120 | M8 x 120  | 45                     | 12      | 85              | 72                | 13               | 30          | 14               | 120                      | 90                        | 180                         | 1110                              | 1922                            | 777                           | 1554                        |
| SLPT16100 | M10 x 100 | 15                     | 16      | 95              | 83                | 17               | 50          | 18               | 140                      | 105                       | 210                         | 1399                              | 2797                            | 979                           | 1958                        |
| SLPT16120 | M10 x 120 | 35                     | 16      | 95              | 83                | 17               | 50          | 18               | 140                      | 105                       | 210                         | 1399                              | 2797                            | 979                           | 1958                        |
| SLPT16140 | M10 x 140 | 55                     | 16      | 95              | 83                | 17               | 50          | 18               | 140                      | 105                       | 210                         | 1399                              | 2797                            | 979                           | 1958                        |
| SLPT16160 | M10 x 160 | 75                     | 16      | 95              | 83                | 17               | 50          | 18               | 140                      | 105                       | 210                         | 1399                              | 2797                            | 979                           | 1958                        |
| SLPT18110 | M12 x 110 | 10                     | 18      | 110             | 97                | 19               | 80          | 20               | 170                      | 130                       | 255                         | 1871                              | 3743                            | 1310                          | 2620                        |
| SLPT18120 | M12 x 120 | 20                     | 18      | 110             | 97                | 19               | 80          | 20               | 170                      | 130                       | 255                         | 1871                              | 3743                            | 1310                          | 2620                        |
| SLPT18140 | M12 x 140 | 40                     | 18      | 110             | 97                | 19               | 80          | 20               | 170                      | 130                       | 255                         | 1871                              | 3743                            | 1310                          | 2620                        |
| SLPT18150 | M12 x 150 | 50                     | 18      | 110             | 97                | 19               | 80          | 20               | 170                      | 130                       | 255                         | 1871                              | 3743                            | 1310                          | 2620                        |
| SLPT18170 | M12 x 170 | 70                     | 18      | 110             | 97                | 19               | 80          | 20               | 170                      | 130                       | 255                         | 1871                              | 3743                            | 1310                          | 2620                        |
| SLPT18200 | M12 x 200 | 100                    | 18      | 110             | 97                | 19               | 80          | 20               | 170                      | 130                       | 255                         | 1871                              | 3743                            | 1310                          | 2620                        |
| SLPT24140 | M16 x 140 | 20                     | 24      | 130             | 117               | 24               | 160         | 26               | 200                      | 150                       | 300                         | 1990                              | 4776                            | 1393                          | 3343                        |
| SLPT24170 | M16 x 170 | 50                     | 24      | 130             | 117               | 24               | 160         | 26               | 200                      | 150                       | 300                         | 1990                              | 4776                            | 1393                          | 3343                        |
| SLPT24200 | M16 x 200 | 80                     | 24      | 130             | 117               | 24               | 160         | 26               | 200                      | 150                       | 300                         | 1990                              | 4776                            | 1393                          | 3343                        |
| SLPT24220 | M16 x 220 | 100                    | 24      | 130             | 117               | 24               | 160         | 26               | 200                      | 150                       | 300                         | 1990                              | 4776                            | 1393                          | 3343                        |
| SLPT28170 | M20 x 170 | 20                     | 28      | 160             | 146               | 30               | 240         | 31               | 250                      | 190                       | 375                         | 2781                              | 6674                            | 1947                          | 4672                        |
| SLPT28200 | M20 x 200 | 50                     | 28      | 160             | 146               | 30               | 240         | 31               | 250                      | 190                       | 375                         | 2781                              | 6674                            | 1947                          | 4672                        |
| SLPT28240 | M20 x 240 | 90                     | 28      | 160             | 146               | 30               | 240         | 31               | 250                      | 190                       | 375                         | 2781                              | 6674                            | 1947                          | 4672                        |

## SL-PC Opt.1 ETA Assessed. Countersunk head

| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|-------------------------------|-----------------------------|
| SLPC10070 | M6 x 70   | 10                     | 10      | 70              | 59                | 4                | 15          | 12               | 100                      | 75                        | 150                         | 782                               | 844                             | 591                           | 591                         |
| SLPC10080 | M6 x 80   | 20                     | 10      | 70              | 59                | 4                | 15          | 12               | 100                      | 75                        | 150                         | 782                               | 844                             | 591                           | 591                         |
| SLPC10100 | M6 x 100  | 40                     | 10      | 70              | 59                | 4                | 15          | 12               | 100                      | 75                        | 150                         | 782                               | 844                             | 591                           | 591                         |
| SLPC12100 | M8 x 100  | 25                     | 12      | 85              | 72                | 5                | 30          | 14               | 120                      | 90                        | 180                         | 1110                              | 1922                            | 777                           | 1554                        |
| SLPC16100 | M10 x 100 | 15                     | 16      | 95              | 83                | 6                | 50          | 18               | 140                      | 105                       | 210                         | 1399                              | 2797                            | 979                           | 1958                        |
| SLPC16120 | M10 x 120 | 35                     | 16      | 95              | 83                | 6                | 50          | 18               | 140                      | 105                       | 210                         | 1399                              | 2797                            | 979                           | 1958                        |
| SLPC18120 | M12 x 120 | 20                     | 18      | 110             | 97                | 8                | 80          | 20               | 170                      | 130                       | 255                         | 1871                              | 3743                            | 1310                          | 2620                        |

# CH

## Anti-spin sleeve anchor, for medium loads



### CH-TO

Hexagonal head screw 6.8. Opt.7 ETA Assessed

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHT08C | M6 x 45   | 5                      | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 351                             |
| ACHT08L | M6 x 60   | 20                     | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 351                             |
| ACHT09C | M6 x 45   | 5                      | 9       | 45              | 39                | 10               | 10          | 10               | 100                      | 41                        | 41                          | 267                               | 351                             |
| ACHT09L | M6 x 60   | 20                     | 9       | 45              | 39                | 10               | 10          | 10               | 100                      | 41                        | 41                          | 267                               | 351                             |
| ACHT10C | M8 x 60   | 5                      | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHT10L | M8 x 80   | 27                     | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHT11C | M8 x 60   | 5                      | 11      | 60              | 51                | 13               | 20          | 13               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHT11L | M8 x 80   | 27                     | 11      | 60              | 51                | 13               | 20          | 13               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHT12C | M10 x 70  | 5                      | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 662                               | 794                             |
| ACHT12L | M10 x 100 | 32                     | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 662                               | 794                             |
| ACHT14C | M10 x 70  | 5                      | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 662                               | 794                             |
| ACHT14L | M10 x 100 | 32                     | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 662                               | 794                             |
| ACHT16C | M12 x 80  | 5                      | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 812                               | 974                             |
| ACHT16L | M12 x 110 | 37                     | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 812                               | 974                             |
| ACHT20C | M16 x 110 | 15                     | 20      | 105             | 92                | 24               | 140         | 22               | 145                      | 97                        | 97                          | 1459                              | 2744                            |
| ACHT25C | M20 x 130 | 25                     | 25      | 130             | 102               | 30               | 240         | 27               | 160                      | 120                       | 240                         | 1424                              | 3417                            |

### CH-A2

A2 Stainless steel. Opt.7 ETA Assessed

| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHTA208C | M6 x 45   | 5                      | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 392                               | 329                             |
| ACHTA208L | M6 x 60   | 20                     | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 392                               | 329                             |
| ACHTA209C | M6 x 45   | 5                      | 9       | 45              | 39                | 10               | 10          | 10               | 100                      | 41                        | 41                          | 392                               | 329                             |
| ACHTA209L | M6 x 60   | 20                     | 9       | 45              | 39                | 10               | 10          | 10               | 100                      | 41                        | 41                          | 392                               | 329                             |
| ACHTA210C | M8 x 60   | 5                      | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 384                               | 600                             |
| ACHTA210L | M8 x 80   | 27                     | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 384                               | 600                             |
| ACHTA211C | M8 x 60   | 5                      | 11      | 60              | 51                | 13               | 20          | 13               | 100                      | 54                        | 54                          | 384                               | 600                             |
| ACHTA211L | M8 x 80   | 27                     | 11      | 60              | 51                | 13               | 20          | 13               | 100                      | 54                        | 54                          | 384                               | 600                             |
| ACHTA212C | M10 x 70  | 5                      | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 566                               | 794                             |
| ACHTA212L | M10 x 100 | 32                     | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 566                               | 794                             |
| ACHTA214C | M10 x 70  | 5                      | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 566                               | 794                             |
| ACHTA214L | M10 x 100 | 32                     | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 566                               | 794                             |
| ACHTA216C | M12 x 80  | 5                      | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 647                               | 974                             |
| ACHTA216L | M12 x 110 | 37                     | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 647                               | 974                             |
| ACHTA220C | M16 x 110 | 15                     | 20      | 105             | 92                | 24               | 140         | 22               | 145                      | 97                        | 97                          | 971                               | 2572                            |

### CH-8.8

Hexagonal head screw 8.8. Opt.7 ETA Assessed

| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHT8808C | M6 x 45   | 5                      | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 392                             |
| ACHT8808L | M6 x 60   | 20                     | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 392                             |
| ACHT8810C | M8 x 60   | 5                      | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHT8810L | M8 x 80   | 27                     | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHT8812C | M10 x 70  | 5                      | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 662                               | 794                             |
| ACHT8812L | M10 x 100 | 32                     | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 662                               | 794                             |
| ACHT8816C | M12 x 80  | 5                      | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 812                               | 974                             |
| ACHT8816L | M12 x 110 | 37                     | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 812                               | 974                             |
| ACHT8820C | M16 x 110 | 15                     | 20      | 105             | 92                | 24               | 140         | 22               | 145                      | 97                        | 97                          | 1459                              | 2918                            |

## CH-8.8 E

Hexagonal head screw 8.8 for reduced thicknesses

| CODE      | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|---------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHT8808E | M6 x 40 | 5                      | 8       | 40              | 32                | 10               | 10          | 9                | 70                       | 41                        | 54                          | 215                               | 298                             |
| ACHT8810E | M8 x 40 | 5                      | 10      | 45              | 37                | 13               | 20          | 12               | 70                       | 41                        | 54                          | 249                               | 298                             |

## CH-PL

Flat head screw. Opt.7 ETA Assessed. Homologado ETE Opción 7.

| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHTPL08C | M6 x 45   | 5                      | 8       | 45              | 39                | 4                | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 392                             |
| ACHTPL08L | M6 x 60   | 20                     | 8       | 45              | 39                | 4                | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 392                             |
| ACHTPL10C | M8 x 60   | 5                      | 10      | 60              | 51                | 5                | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHTPL10L | M8 x 80   | 27                     | 10      | 60              | 51                | 5                | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 604                             |
| ACHTPL12C | M10 x 70  | 5                      | 12      | 75              | 65                | 6                | 35          | 14               | 100                      | 65                        | 65                          | 662                               | 794                             |
| ACHTPL12L | M10 x 100 | 32                     | 12      | 75              | 65                | 6                | 35          | 14               | 100                      | 65                        | 65                          | 662                               | 794                             |

## CH-INB

Zinc-plated tamperproof head. Opt.7 ETA Assessed

| CODE      | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|---------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHINB08C | M6 x 45 | 5                      | 8       | 45              | 39                | TX40             | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 219                             |
| ACHINB08L | M6 x 60 | 20                     | 8       | 45              | 39                | TX40             | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 219                             |
| ACHINB10C | M8 x 60 | 5                      | 10      | 60              | 51                | TX40             | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 399                             |
| ACHINB10L | M8 x 80 | 27                     | 10      | 60              | 51                | TX40             | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 399                             |

## CH-INN

Black zinc-plated tamperproof head. Opt.7 ETA Assessed

| CODE      | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|---------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHINN08C | M6 x 45 | 5                      | 8       | 45              | 39                | TX40             | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 219                             |
| ACHINN08L | M6 x 60 | 20                     | 8       | 45              | 39                | TX40             | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 219                             |
| ACHINN10C | M8 x 60 | 5                      | 10      | 60              | 51                | TX40             | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 399                             |
| ACHINN10L | M8 x 80 | 27                     | 10      | 60              | 51                | TX40             | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 399                             |

## CH-PI

A2 Stainless steel flat head screw. Opt.7 ETA Assessed

| CODE      | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHTPI08C | M6 x 45   | 5                      | 8       | 45              | 39                | 4                | 10          | 9                | 100                      | 41                        | 41                          | 392                               | 329                             |
| ACHTPI08L | M6 x 60   | 20                     | 8       | 45              | 39                | 4                | 10          | 9                | 100                      | 41                        | 41                          | 392                               | 329                             |
| ACHTPI10C | M8 x 60   | 5                      | 10      | 60              | 51                | 5                | 20          | 12               | 100                      | 54                        | 54                          | 384                               | 600                             |
| ACHTPI10L | M8 x 80   | 27                     | 10      | 60              | 51                | 5                | 20          | 12               | 100                      | 54                        | 54                          | 384                               | 600                             |
| ACHTPI12C | M10 x 70  | 5                      | 12      | 75              | 65                | 6                | 35          | 14               | 100                      | 65                        | 65                          | 566                               | 794                             |
| ACHTPI12L | M10 x 100 | 32                     | 12      | 75              | 65                | 6                | 35          | 14               | 100                      | 65                        | 65                          | 566                               | 794                             |

## CH-ES

Projecting bolt

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHE08C | M6 x 45   | 5                      | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 267                               | 211                             |
| ACHE09C | M6 x 45   | 5                      | 9       | 45              | 39                | 10               | 10          | 10               | 100                      | 41                        | 41                          | 267                               | 211                             |
| ACHE10C | M8 x 60   | 5                      | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 485                               | 384                             |
| ACHE10L | M8 x 80   | 27                     | 10      | 60              | 51                | 13               | 20          | 12               | 105                      | 54                        | 54                          | 485                               | 384                             |
| ACHE11C | M8 x 60   | 5                      | 11      | 60              | 51                | 13               | 20          | 13               | 100                      | 54                        | 54                          | 485                               | 384                             |
| ACHE11L | M8 x 80   | 27                     | 11      | 60              | 51                | 13               | 20          | 13               | 105                      | 54                        | 54                          | 485                               | 384                             |
| ACHE12C | M10 x 70  | 5                      | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 662                               | 608                             |
| ACHE12L | M10 x 100 | 32                     | 12      | 75              | 65                | 17               | 35          | 14               | 110                      | 65                        | 65                          | 662                               | 608                             |
| ACHE14C | M10 x 70  | 5                      | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 662                               | 608                             |
| ACHE14L | M10 x 100 | 32                     | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 662                               | 608                             |

## CH-GA

Hook bolt

| CODE    | MXL      | APERTURE HOOK | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|----------|---------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHG08C | M6 x 45  | 10            | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 73                                | -                               |
| ACHG09C | M6 x 45  | 10            | 9       | 45              | 39                | 10               | 10          | 10               | 100                      | 41                        | 41                          | 73                                | -                               |
| ACHG10C | M8 x 60  | 13            | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 146                               | -                               |
| ACHG11C | M8 x 60  | 13            | 11      | 60              | 51                | 13               | 20          | 13               | 100                      | 54                        | 54                          | 146                               | -                               |
| ACHG12C | M10 x 70 | 14            | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 243                               | -                               |
| ACHG14C | M10 x 70 | 14            | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 243                               | -                               |
| ACHG16C | M12 x 80 | 22            | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 291                               | -                               |

## CH-GE Hook spiral

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHGE10 | M8 x 115  | -                      | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 41                        | 41                          | 146                               | -                               |
| ACHGE12 | M10 x 135 | -                      | 12      | 80              | 70                | 17               | 35          | 14               | 100                      | 54                        | 54                          | 243                               | -                               |

## CH-GF Forged hook bolt

| CODE      | MXL      | APERTURE HOOK | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|----------|---------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHGF008C | M6 x 45  | 10            | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 80                                | -                               |
| ACHGF010C | M8 x 60  | 11            | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 155                               | -                               |
| ACHGF012C | M10 x 70 | 14            | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 243                               | -                               |

## CH-GF A2 A2 Stainless steel forged hook bolt

| CODE      | MXL      | APERTURE HOOK | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|----------|---------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHGA208C | M6 x 45  | 10            | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 84                                | -                               |
| ACHGA210C | M8 x 60  | 11            | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 84                                | -                               |
| ACHGA212C | M10 x 70 | 14            | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 155                               | -                               |

## CH-AR Eye bolt

| CODE    | MXL      | EYE BOLT Ø | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|----------|------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHA08C | M6 x 45  | 10         | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 73                                | -                               |
| ACHA09C | M6 x 45  | 10         | 9       | 45              | 39                | 10               | 10          | 10               | 100                      | 41                        | 41                          | 73                                | -                               |
| ACHA10C | M8 x 60  | 13         | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 146                               | -                               |
| ACHA11C | M8 x 60  | 13         | 11      | 60              | 51                | 13               | 20          | 13               | 100                      | 54                        | 54                          | 146                               | -                               |
| ACHA12C | M10 x 70 | 14         | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 243                               | -                               |
| ACHA14C | M10 x 70 | 14         | 14      | 75              | 65                | 17               | 35          | 16               | 100                      | 65                        | 65                          | 243                               | -                               |
| ACHA16C | M12 x 80 | 22         | 16      | 80              | 70                | 19               | 50          | 18               | 110                      | 74                        | 74                          | 291                               | -                               |

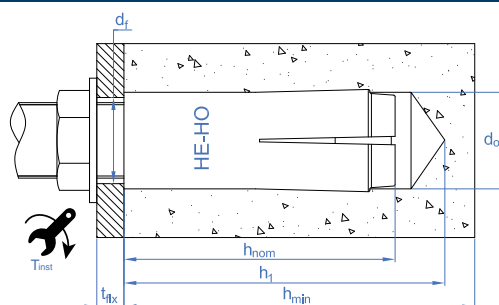
## CH-AF Forged eye bolt

| CODE      | MXL      | EYE BOLT Ø | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|----------|------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHAF008C | M6 x 45  | 10         | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 204                               | -                               |
| ACHAF010C | M8 x 60  | 12         | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 485                               | -                               |
| ACHAF012C | M10 x 70 | 14         | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 662                               | -                               |

## CH-AF A2 A2 Stainless steel forged eye bolt

| CODE      | MXL      | EYE BOLT Ø | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|----------|------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ACHAA208C | M6 x 45  | 10         | 8       | 45              | 39                | 10               | 10          | 9                | 100                      | 41                        | 41                          | 164                               | -                               |
| ACHAA210C | M8 x 60  | 11         | 10      | 60              | 51                | 13               | 20          | 12               | 100                      | 54                        | 54                          | 384                               | -                               |
| ACHAA212C | M10 x 70 | 14         | 12      | 75              | 65                | 17               | 35          | 14               | 100                      | 65                        | 65                          | 566                               | -                               |

## HE Drop-in anchor with internal thread for heavy loads



## HE-HO Zinc-plated. Opt.7 ETA Assessed & for non-structural applications

| CODE     | MXL | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|----------|-----|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HEHOM06  | M6  | 8       | 27              | 25                | 4           | 7                | 100                      | 38                        | 75                          | 249                               | 298                             |
| HEHOM08  | M8  | 10      | 33              | 30                | 11          | 9                | 100                      | 45                        | 90                          | 327                               | 392                             |
| HEHOM10  | M10 | 12      | 43              | 40                | 17          | 12               | 100                      | 60                        | 120                         | 432                               | 530                             |
| HEHOM12  | M12 | 15      | 54              | 50                | 38          | 14               | 100                      | 75                        | 150                         | 603                               | 844                             |
| HEHOM16  | M16 | 20      | 70              | 65                | 60          | 18               | 130                      | 98                        | 195                         | 894                               | 1893                            |
| HEHOM20  | M20 | 25      | 86              | 80                | 100         | 22               | 160                      | 120                       | 240                         | 1220                              | 2767                            |
| HEHOM12D | M12 | 16      | 54              | 50                | 38          | 14               | 100                      | 75                        | 150                         | 603                               | 844                             |

## HE-A4

A4 Stainless steel. ETA Assessed for non-structural applications

| CODE    | MXL | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HEA4M06 | M6  | 8       | 27              | 25                | 4           | 7                | 80                       | 150                       | 200                         | 87                                | 87                              |
| HEA4M08 | M8  | 10      | 33              | 30                | 11          | 9                | 80                       | 150                       | 200                         | 121                               | 121                             |
| HEA4M10 | M10 | 12      | 43              | 40                | 17          | 12               | 80                       | 150                       | 200                         | 121                               | 121                             |
| HEA4M12 | M12 | 15      | 54              | 50                | 38          | 14               | 100                      | 150                       | 200                         | 225                               | 225                             |
| HEA4M16 | M16 | 20      | 70              | 65                | 60          | 18               | 130                      | 195                       | 260                         | 433                               | 433                             |
| HEA4M20 | M20 | 25      | 86              | 80                | 100         | 22               | 160                      | 240                       | 320                         | 572                               | 572                             |

## HE-CL

With collar. Zinc-plated. Opt.7 ETA Assessed & for non-structural applications

| CODE      | MXL | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HECLOM06  | M6  | 8       | 27              | 25                | 4           | 7                | 100                      | 38                        | 75                          | 249                               | 298                             |
| HECLOM08  | M8  | 10      | 33              | 30                | 11          | 9                | 100                      | 45                        | 90                          | 327                               | 392                             |
| HECLOM10  | M10 | 12      | 43              | 40                | 17          | 12               | 100                      | 60                        | 120                         | 432                               | 530                             |
| HECLOM12  | M12 | 15      | 54              | 50                | 38          | 14               | 100                      | 75                        | 150                         | 603                               | 844                             |
| HECLOM16  | M16 | 20      | 70              | 65                | 60          | 18               | 130                      | 98                        | 195                         | 894                               | 1893                            |
| HECLOM12D | M12 | 16      | 54              | 50                | 38          | 14               | 100                      | 75                        | 150                         | 603                               | 844                             |

## HE-C4

With collar. A4 Stainless steel. ETA Assessed for non-structural applications

| CODE    | MXL | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HEC4M06 | M6  | 8       | 27              | 25                | 4           | 7                | 80                       | 150                       | 200                         | 87                                | 87                              |
| HEC4M08 | M8  | 10      | 33              | 30                | 11          | 9                | 80                       | 150                       | 200                         | 121                               | 121                             |
| HEC4M10 | M10 | 12      | 43              | 40                | 17          | 12               | 80                       | 150                       | 200                         | 121                               | 121                             |
| HEC4M12 | M12 | 15      | 54              | 50                | 38          | 14               | 100                      | 150                       | 200                         | 225                               | 225                             |

## HE-HC

Short. Zinc-plated. ETA Assessed for non-structural applications

| CODE    | MXL      | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|----------|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HEHCM08 | M8 x 25  | 10      | 28              | 25                | 11          | 9                | 80                       | 60                        | 120                         | 101                               | 101                             |
| HEHCM10 | M10 x 25 | 12      | 28              | 25                | 17          | 12               | 80                       | 60                        | 120                         | 162                               | 162                             |
| HEHCM12 | M12 x 25 | 15      | 29              | 25                | 38          | 14               | 80                       | 60                        | 120                         | 162                               | 162                             |

## HE-NO

Zinc-plated

| CODE    | MXL | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HENOM06 | M6  | 8       | 27              | 25                | 4           | 7                | 100                      | 38                        | 75                          | 175                               | 298                             |
| HENOM08 | M8  | 10      | 33              | 30                | 11          | 9                | 100                      | 45                        | 90                          | 230                               | 392                             |
| HENOM10 | M10 | 12      | 43              | 40                | 17          | 12               | 100                      | 60                        | 120                         | 354                               | 530                             |
| HENOM12 | M12 | 15      | 54              | 50                | 38          | 14               | 100                      | 75                        | 150                         | 494                               | 844                             |
| HENOM16 | M16 | 20      | 70              | 65                | 60          | 18               | 130                      | 98                        | 195                         | 733                               | 1893                            |
| HENOM20 | M20 | 25      | 86              | 80                | 100         | 22               | 160                      | 120                       | 240                         | 1000                              | 2767                            |

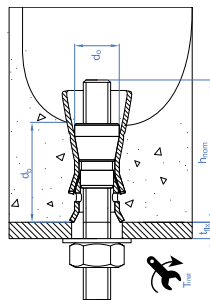
## HE-NS

A4 Stainless steel. ETA Assessed for non-structural applications

| CODE    | MXL      | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|----------|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HENSM08 | M8 x 30  | 10      | 33              | 30                | 11          | 9                | 100                      | 45                        | 90                          | 327                               | 392                             |
| HENSM10 | M10 x 40 | 12      | 43              | 40                | 17          | 12               | 100                      | 60                        | 120                         | 432                               | 530                             |
| HENSM12 | M12 x 50 | 15      | 54              | 50                | 38          | 14               | 100                      | 75                        | 150                         | 603                               | 844                             |
| HENSM16 | M16 x 65 | 20      | 70              | 65                | 60          | 18               | 130                      | 98                        | 195                         | 894                               | 1893                            |

## HC

Hollow-core slab anchor. ETA Assessed



## HC

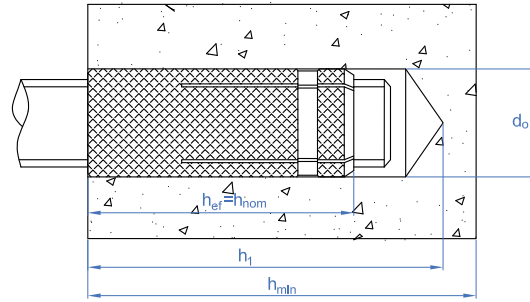
Shield

| CODE  | MXL      | DRILL Ø | HOLE DEPTH MIN. | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-------|----------|---------|-----------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| HCM06 | M6 x 38  | 10      | 45              | 10          | 7                | 25                       | 100                       | 200                         | 142                               | 142                             |
| HCM08 | M8 x 44  | 12      | 50              | 20          | 9                | 25                       | 100                       | 200                         | 243                               | 243                             |
| HCM10 | M10 x 53 | 16      | 60              | 30          | 12               | 25                       | 100                       | 200                         | 324                               | 324                             |



# TALA

Brass expansion anchor for light fastenings in solid materials



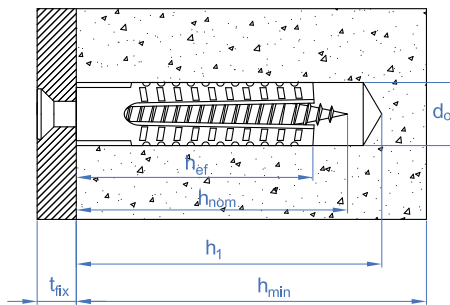
## TALA

Brass expansion anchor for light fixings in solid materials

| CODE    | MXL        | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE |
|---------|------------|---------|-----------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|
| TALA532 | W5/32 x 16 | 5       | 20              | 25                       | 24                        | 48                          | 60                                |
| TALAM04 | M4 x 16    | 5       | 20              | 25                       | 24                        | 48                          | 60                                |
| TALAM05 | M5 x 18    | 6       | 22              | 30                       | 27                        | 54                          | 70                                |
| TALAM06 | M6 x 23    | 8       | 28              | 35                       | 35                        | 69                          | 100                               |
| TALAM08 | M8 x 28    | 10      | 33              | 40                       | 42                        | 84                          | 150                               |
| TALAM10 | M10 x 33   | 12      | 40              | 45                       | 51                        | 102                         | 210                               |
| TALAM12 | M12 x 38   | 15      | 45              | 50                       | 57                        | 114                         | 320                               |

# TA-ME

Steel expansion plug



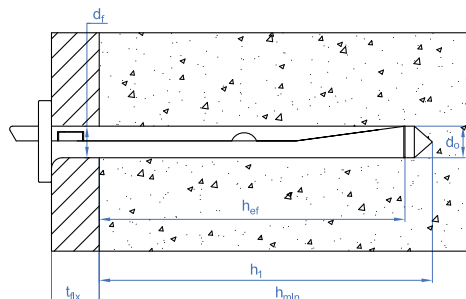
## TA-ME

Steel expansion plug

| CODE      | MXL      | DRILL Ø | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE |
|-----------|----------|---------|-----------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|
| TAME05030 | M5 x 30  | 5       | 40              | 60                       | 60                        | 120                         | 20                                |
| TAME06032 | M6 x 32  | 6       | 40              | 60                       | 60                        | 120                         | 22                                |
| TAME08038 | M8 x 38  | 8       | 50              | 70                       | 70                        | 140                         | 40                                |
| TAME08060 | M8 x 60  | 8       | 70              | 120                      | 120                       | 240                         | 47                                |
| TAME10060 | M10 x 60 | 10      | 70              | 120                      | 120                       | 240                         | 52                                |

# AN-CU

Ceiling wedge anchor ETA Assessed



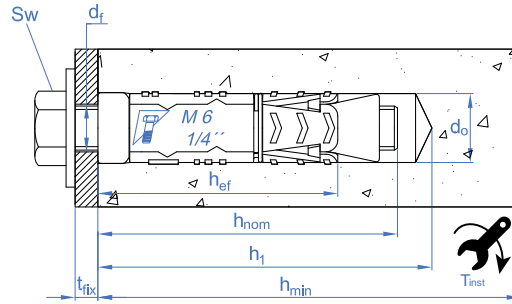
## AN-CU

Wedge-type, hammer-drive metal anchor

| CODE      | MXL    | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE |
|-----------|--------|------------------------|---------|-----------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|
| ANCU06040 | 6 x 40 | 5                      | 6       | 40              | 7                | 80                       | 150                       | 200                         | 120                               |
| ANCU06070 | 6 x 70 | 35                     | 6       | 40              | 7                | 80                       | 150                       | 200                         | 120                               |

# ZA

Anchor for medium-heavy loads in hollow and solid elements



## ZA-CA

Shield

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AZAMC06 | M6 x 48   | -                      | 12      | 60              | 48                | 7           | 7                | 100                      | 62                        | 125                         | 513                               | 351                             |
| AZAMC08 | M8 x 50   | -                      | 14      | 65              | 50                | 15          | 9                | 100                      | 65                        | 130                         | 561                               | 640                             |
| AZAMC10 | M10 x 58  | -                      | 16      | 75              | 58                | 30          | 12               | 102                      | 80                        | 155                         | 725                               | 870                             |
| AZAMC12 | M12 x 72  | -                      | 20      | 90              | 72                | 50          | 14               | 122                      | 95                        | 185                         | 865                               | 1473                            |
| AZAMC16 | M16 x 107 | -                      | 25      | 125             | 107               | 120         | 18               | 192                      | 145                       | 290                         | 1053                              | 2744                            |

## ZA-TO

Loose bolt

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AZAMT06 | M6 x 50   | 1                      | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 513                               | 351                             |
| AZAMT08 | M8 x 60   | 10                     | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 561                               | 640                             |
| AZAMT10 | M10 x 80  | 20                     | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 725                               | 870                             |
| AZAMT12 | M12 x 100 | 25                     | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 865                               | 1473                            |
| AZAMT16 | M16 x 140 | 30                     | 25      | 125             | 107               | 24               | 120         | 18               | 192                      | 145                       | 290                         | 1053                              | 2744                            |

## ZA-TL

Long loose bolt

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ZT06L10 | M6 x 60   | 10                     | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 513                               | 351                             |
| ZT06L30 | M6 x 80   | 30                     | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 513                               | 351                             |
| ZT08L15 | M8 x 70   | 15                     | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 561                               | 640                             |
| ZT08L35 | M8 x 90   | 35                     | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 561                               | 640                             |
| ZT08L45 | M8 x 100  | 45                     | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 561                               | 640                             |
| ZT10L10 | M10 x 70  | 10                     | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 725                               | 870                             |
| ZT10L30 | M10 x 90  | 30                     | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 725                               | 870                             |
| ZT10L50 | M10 x 110 | 50                     | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 725                               | 870                             |
| ZT10L80 | M10 x 140 | 80                     | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 725                               | 870                             |
| ZT12L15 | M12 x 90  | 15                     | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 865                               | 1473                            |
| ZT12L45 | M12 x 120 | 45                     | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 865                               | 1473                            |
| ZT12L65 | M12 x 140 | 65                     | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 865                               | 1473                            |

## ZA-PR

Long loose bolt with pipe

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| ZP06C40 | M6 x 90   | 40                     | 12      | 60              | 48                | 10               | 7           | 14               | 100                      | 62                        | 125                         | 415                               | 246                             |
| ZP08C15 | M8 x 70   | 15                     | 14      | 65              | 50                | 13               | 7           | 16               | 100                      | 65                        | 130                         | 561                               | 448                             |
| ZP08C45 | M8 x 100  | 45                     | 14      | 65              | 50                | 13               | 30          | 16               | 100                      | 80                        | 130                         | 561                               | 448                             |
| ZP10C50 | M10 x 110 | 50                     | 16      | 75              | 58                | 17               | 30          | 18               | 102                      | 80                        | 155                         | 725                               | 709                             |
| ZP10C80 | M10 x 140 | 80                     | 16      | 75              | 58                | 17               | 30          | 18               | 102                      | 80                        | 155                         | 725                               | 709                             |
| ZP12C15 | M12 x 90  | 15                     | 20      | 90              | 72                | 19               | 50          | 22               | 122                      | 95                        | 185                         | 865                               | 1031                            |
| ZP12C65 | M12 x 140 | 65                     | 20      | 90              | 72                | 19               | 50          | 22               | 122                      | 95                        | 185                         | 865                               | 1031                            |

## ZA-ES

Projecting bolt

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AZAME06 | M6 x 60   | 1                      | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 415                               | 246                             |
| AZAME08 | M8 x 70   | 10                     | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 561                               | 448                             |
| AZAME10 | M10 x 100 | 30                     | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 725                               | 709                             |
| AZAME12 | M12 x 120 | 30                     | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 865                               | 1031                            |
| AZAME16 | M16 x 140 | 12                     | 25      | 125             | 107               | 24               | 120         | 18               | 192                      | 145                       | 290                         | 1053                              | 1920                            |

## ZA-GA

Hook bolt

| CODE    | MXL      | APERTURE HOOK | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|----------|---------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AZAMG06 | M6 x 48  | 10            | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 73                                | -                               |
| AZAMG08 | M8 x 50  | 13            | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 146                               | -                               |
| AZAMG10 | M10 x 58 | 14            | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 243                               | -                               |
| AZAMG12 | M12 x 72 | 22            | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 291                               | -                               |

## ZA-GF

Forged hook bolt

| CODE      | MXL       | APERTURE HOOK | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|---------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AZAMGF006 | M6 x 60   | 10            | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 80                                | -                               |
| AZAMGF008 | M8 x 70   | 11            | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 155                               | -                               |
| AZAMGF010 | M10 x 100 | 14            | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 243                               | -                               |
| AZAMGF012 | M12 x 120 | 18            | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 396                               | -                               |

## ZA-AR

Eye bolt

| CODE    | MXL      | EYE BOLT Ø | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|----------|------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AZAMA06 | M6 x 48  | 10         | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 73                                | -                               |
| AZAMA08 | M8 x 50  | 13         | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 146                               | -                               |
| AZAMA10 | M10 x 58 | 14         | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 243                               | -                               |
| AZAMA12 | M12 x 72 | 22         | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 291                               | -                               |

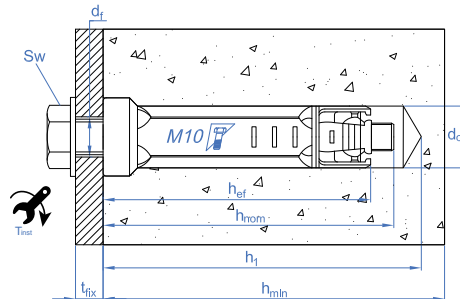
## ZA-AF

Forged eye bolt

| CODE      | MXL      | EYE BOLT Ø | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|----------|------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AZAMAF006 | M6 x 48  | 10         | 12      | 60              | 48                | 10               | 7           | 7                | 100                      | 62                        | 125                         | 204                               | -                               |
| AZAMAF008 | M8 x 50  | 12         | 14      | 65              | 50                | 13               | 15          | 9                | 100                      | 65                        | 130                         | 555                               | -                               |
| AZAMAF010 | M10 x 58 | 14         | 16      | 75              | 58                | 17               | 30          | 12               | 102                      | 80                        | 155                         | 725                               | -                               |
| AZAMAF012 | M12 x 72 | 17         | 20      | 90              | 72                | 19               | 50          | 14               | 122                      | 95                        | 185                         | 820                               | -                               |

## AC

Winged steel anchor for heavy-duty fixings



## AC-CA

Shield

| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AACCA06 | M6 x 40   | -                      | 10      | 45              | 40                | 10          | 7                | 100                      | 60                        | 120                         | 92                                | 351                             |
| AACCA08 | M8 x 50   | -                      | 14      | 60              | 50                | 25          | 9                | 100                      | 75                        | 150                         | 98                                | 640                             |
| AACCA10 | M10 x 60  | -                      | 16      | 70              | 60                | 50          | 12               | 120                      | 90                        | 180                         | 441                               | 1014                            |
| AACCA12 | M12 x 80  | -                      | 20      | 90              | 80                | 85          | 14               | 160                      | 120                       | 240                         | 571                               | 1473                            |
| AACCA16 | M16 x 100 | -                      | 25      | 110             | 100               | 120         | 18               | 200                      | 150                       | 300                         | 698                               | 2744                            |

## AC-CI

A4 Stainless steel shield

| CODE    | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|----------|------------------------|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AACCI06 | M6 x 40  | -                      | 10      | 45              | 40                | 10          | 7                | 100                      | 60                        | 120                         | 92                                | 329                             |
| AACCI08 | M8 x 50  | -                      | 14      | 60              | 50                | 25          | 9                | 100                      | 75                        | 150                         | 98                                | 600                             |
| AACCI10 | M10 x 60 | -                      | 16      | 70              | 60                | 50          | 12               | 120                      | 90                        | 180                         | 441                               | 950                             |
| AACCI12 | M12 x 80 | -                      | 20      | 90              | 80                | 85          | 14               | 160                      | 120                       | 240                         | 571                               | 1381                            |

## AC-TO

Loose bolt 6.8

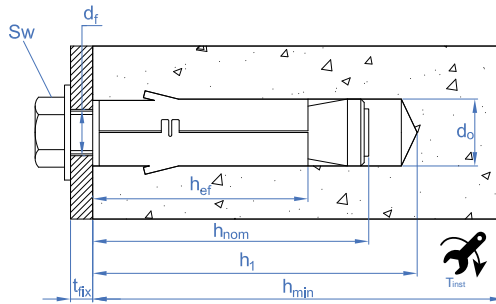
| CODE    | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AACTO06 | M6 x 50   | 8                      | 10      | 45              | 40                | 10               | 10          | 7                | 100                      | 60                        | 120                         | 92                                | 351                             |
| AACTO08 | M8 x 60   | 8                      | 14      | 60              | 50                | 13               | 25          | 9                | 100                      | 75                        | 150                         | 98                                | 640                             |
| AACTO10 | M10 x 70  | 8                      | 16      | 70              | 60                | 17               | 50          | 12               | 120                      | 90                        | 180                         | 441                               | 1014                            |
| AACTO12 | M12 x 125 | 18                     | 20      | 90              | 80                | 19               | 85          | 14               | 160                      | 120                       | 240                         | 571                               | 1473                            |
| AACTO16 | M16 x 125 | 17                     | 25      | 110             | 100               | 24               | 120         | 18               | 200                      | 150                       | 300                         | 698                               | 2744                            |

| AC-ES Projecting bolt |           |                        |         |                 |                   |                  |             |                  |                          |                           |                             |                                   |                                 |
|-----------------------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| CODE                  | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
| AACES06               | M6 x 60   | 8                      | 10      | 45              | 40                | 10               | 10          | 7                | 100                      | 60                        | 120                         | 92                                | 246                             |
| AACES08               | M8 x 70   | 8                      | 14      | 60              | 50                | 13               | 25          | 9                | 100                      | 75                        | 150                         | 98                                | 448                             |
| AACES10               | M10 x 80  | 8                      | 16      | 70              | 60                | 17               | 50          | 12               | 120                      | 90                        | 180                         | 441                               | 709                             |
| AACES12               | M12 x 115 | 18                     | 20      | 90              | 80                | 19               | 85          | 14               | 160                      | 120                       | 240                         | 571                               | 1031                            |

| AC-GA Hook bolt |          |               |         |                 |                   |                  |             |                  |                          |                           |                             |                                   |                                 |
|-----------------|----------|---------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| CODE            | MXL      | APERTURE HOOK | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
| AACGA06         | M6 x 55  | 10            | 10      | 45              | 40                | 10               | 10          | 7                | 100                      | 60                        | 120                         | 80                                | -                               |
| AACGA08         | M8 x 60  | 11            | 14      | 60              | 50                | 13               | 25          | 9                | 100                      | 75                        | 150                         | 98                                | -                               |
| AACGA10         | M10 x 73 | 14            | 16      | 70              | 60                | 17               | 50          | 12               | 120                      | 90                        | 180                         | 243                               | -                               |
| AACGA12         | M12 x 90 | 18            | 20      | 90              | 80                | 19               | 85          | 14               | 160                      | 120                       | 240                         | 396                               | -                               |

| AC-AR Eye bolt |          |            |         |                 |                   |                  |             |                  |                          |                           |                             |                                   |                                 |
|----------------|----------|------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| CODE           | MXL      | EYE BOLT Ø | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
| AACAR06        | M6 x 55  | 10         | 10      | 45              | 40                | 10               | 10          | 7                | 100                      | 60                        | 120                         | 92                                | -                               |
| AACAR08        | M8 x 60  | 12         | 14      | 60              | 50                | 13               | 25          | 9                | 100                      | 75                        | 150                         | 98                                | -                               |
| AACAR10        | M10 x 73 | 14         | 16      | 70              | 60                | 17               | 50          | 12               | 120                      | 90                        | 180                         | 441                               | -                               |
| AACAR12        | M12 x 90 | 17         | 20      | 90              | 80                | 19               | 85          | 14               | 160                      | 120                       | 240                         | 571                               | -                               |

# HI Anti-spin sleeve anchor, for heavy-duty loads



| HI-CA Shield |          |                        |         |                 |                   |             |                  |                          |                           |                             |                                   |                                 |  |
|--------------|----------|------------------------|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|--|
| CODE         | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |  |
| AHICA0645    | M6 x 45  | -                      | 12      | 60              | 45                | 10          | 7                | 100                      | 45                        | 90                          | 41                                | 392                             |  |
| AHICA0855    | M8 x 55  | -                      | 14      | 65              | 50                | 20          | 9                | 100                      | 55                        | 105                         | 163                               | 494                             |  |
| AHICA1065    | M10 x 65 | -                      | 16      | 75              | 60                | 40          | 12               | 100                      | 70                        | 135                         | 237                               | 721                             |  |
| AHICA1275    | M12 x 75 | -                      | 20      | 90              | 70                | 65          | 14               | 110                      | 85                        | 165                         | 332                               | 1841                            |  |
| AHICA1690    | M16 x 90 | -                      | 24      | 105             | 100               | 150         | 18               | 140                      | 105                       | 210                         | 424                               | 2797                            |  |

| HI-CI A2 Stainless steel shield |          |                        |         |                 |                   |             |                  |                          |                           |                             |                                   |                                 |  |
|---------------------------------|----------|------------------------|---------|-----------------|-------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|--|
| CODE                            | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |  |
| AHIC10645                       | M6 x 60  | -                      | 12      | 60              | 45                | 10          | 7                | 100                      | 45                        | 90                          | 360                               | 329                             |  |
| AHIC10855                       | M8 x 65  | -                      | 14      | 65              | 50                | 20          | 9                | 100                      | 55                        | 105                         | 542                               | 600                             |  |
| AHIC11065                       | M10 x 81 | -                      | 16      | 75              | 60                | 40          | 12               | 100                      | 70                        | 135                         | 704                               | 844                             |  |

| HI-TO Loose bolt 8.8 |           |                        |         |                 |                   |                  |             |                  |                          |                           |                             |                                   |                                 |
|----------------------|-----------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| CODE                 | MXL       | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
| AHITO0645            | M6 x 50   | 8                      | 12      | 60              | 45                | 10               | 10          | 7                | 100                      | 45                        | 90                          | 41                                | 392                             |
| AHITO0855            | M8 x 60   | 15                     | 14      | 65              | 50                | 13               | 20          | 9                | 100                      | 55                        | 105                         | 163                               | 494                             |
| AHITO1065            | M10 x 80  | 23                     | 16      | 75              | 60                | 17               | 40          | 12               | 100                      | 70                        | 135                         | 237                               | 721                             |
| AHITO1275            | M12 x 100 | 30                     | 20      | 90              | 70                | 19               | 65          | 14               | 110                      | 85                        | 165                         | 332                               | 1841                            |
| AHITO1690            | M16 x 110 | 17                     | 24      | 105             | 100               | 24               | 150         | 18               | 140                      | 105                       | 210                         | 424                               | 2797                            |

| HI-GA Hook bolt |           |               |         |                 |                   |                  |             |                          |                           |                             |                                   |                                 |  |
|-----------------|-----------|---------------|---------|-----------------|-------------------|------------------|-------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|--|
| CODE            | MXL       | APERTURE HOOK | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |  |
| AHIGA0645       | M6 x 55   | 10            | 12      | 60              | 45                | 10               | 10          | 100                      | 45                        | 90                          | 41                                | -                               |  |
| AHIGA0855       | M8 x 60   | 11            | 14      | 65              | 50                | 13               | 20          | 100                      | 55                        | 105                         | 155                               | -                               |  |
| AHIGA1065       | M10 x 73  | 14            | 16      | 75              | 60                | 17               | 40          | 100                      | 70                        | 135                         | 237                               | -                               |  |
| AHIGA1275       | M12 x 90  | 18            | 20      | 90              | 70                | 19               | 65          | 110                      | 85                        | 165                         | 332                               | -                               |  |
| AHIGA1690       | M16 x 110 | 19            | 24      | 105             | 100               | 24               | 150         | 140                      | 105                       | 210                         | 424                               | -                               |  |

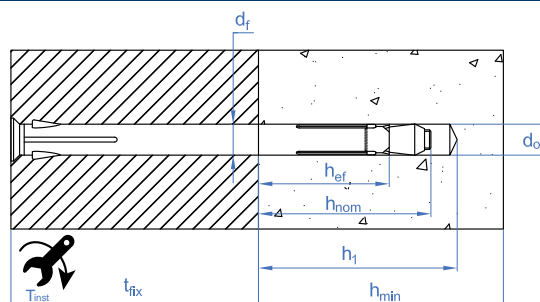
## HI-AR

Eye bolt

| CODE      | MXL       | EYE BOLT $\phi$ | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|-----------|-----------|-----------------|--------------|-----------------|-------------------|------------------|-------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| AHIAR0645 | M6 x 60   | 10              | 12           | 60              | 45                | 10               | 10          | 100                      | 45                        | 90                          | 41                                | -                               |
| AHIAR0855 | M8 x 65   | 12              | 14           | 65              | 50                | 13               | 20          | 100                      | 55                        | 105                         | 163                               | -                               |
| AHIAR1065 | M10 x 81  | 14              | 16           | 75              | 60                | 17               | 40          | 100                      | 70                        | 135                         | 237                               | -                               |
| AHIAR1275 | M12 x 98  | 17              | 20           | 90              | 70                | 19               | 65          | 110                      | 85                        | 165                         | 332                               | -                               |
| AHIAR1690 | M16 x 120 | 23              | 24           | 105             | 100               | 24               | 150         | 140                      | 105                       | 210                         | 424                               | -                               |

## EPS

Metal anchor for fixing window and door frames



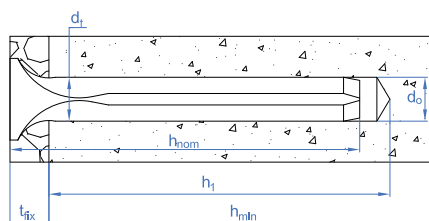
## EPS

Metal anchor for fixing window and door frames

| CODE    | MXL      | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TORQUE (NM) | $\phi$ ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|---------|----------|------------------------|--------------|-----------------|-------------------|-------------|-----------------------|--------------------------|-----------------------------------|-----------------------------|
| EPS6072 | M6 x 72  | 40                     | 10           | 60              | 40                | 4           | 10                    | 70                       | 170                               | -                           |
| EPS6092 | M6 x 92  | 60                     | 10           | 60              | 40                | 4           | 10                    | 70                       | 170                               | -                           |
| EPS6112 | M6 x 112 | 80                     | 10           | 60              | 40                | 4           | 10                    | 70                       | 170                               | -                           |
| EPS6132 | M6 x 132 | 100                    | 10           | 60              | 40                | 4           | 10                    | 70                       | 170                               | -                           |
| EPS6152 | M6 x 152 | 120                    | 10           | 60              | 40                | 4           | 10                    | 70                       | 170                               | -                           |
| EPS6182 | M6 x 182 | 150                    | 10           | 60              | 40                | 4           | 10                    | 70                       | 170                               | -                           |

## TRA

Express nail for batten fixings to concrete floors



## TRA

Express nail for batten fixings to concrete floors

| CODE    | MXL     | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | $\phi$ ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD CRACKED CONCRETE |
|---------|---------|------------------------|--------------|-----------------|-------------------|-----------------------|--------------------------|-----------------------------------|-----------------------------|
| TRA6050 | 6 x 50  | 20                     | 6            | 40              | 30                | 6                     | 35                       | 40                                | -                           |
| TRA6060 | 6 x 60  | 30                     | 6            | 40              | 30                | 6                     | 35                       | 40                                | -                           |
| TRA6080 | 6 x 80  | 50                     | 6            | 40              | 30                | 6                     | 35                       | 40                                | -                           |
| TRA8070 | 8 x 70  | 30                     | 8            | 50              | 40                | 8                     | 45                       | 50                                | -                           |
| TRA8090 | 8 x 90  | 50                     | 8            | 50              | 40                | 8                     | 45                       | 50                                | -                           |
| TRA8110 | 8 x 110 | 70                     | 8            | 50              | 40                | 8                     | 45                       | 50                                | -                           |
| TRA8130 | 8 x 130 | 90                     | 8            | 50              | 40                | 8                     | 45                       | 50                                | -                           |
| TRA8150 | 8 x 150 | 110                    | 8            | 50              | 40                | 8                     | 45                       | 50                                | -                           |

## CONCRETE SET UP

### 1 DRILL

Check:

- The concrete base is compact and porosity is insignificant.
- That the product is suitable for wet, dry or flooded drill holes.
- Cartridge temperature is correct (check table).
- Base material temperature is correct (check table).

Use drill in percussion or hammer mode.

Drill to the specified diameter and depth values specified in the product data sheet.

### 2 - 6 BLOW AND CLEAN

Clear the drill holes completely of dust and fragments by following the procedure shown in the picture. Use the air pump and brush.

If the product is not suitable for wet drill holes and the hole is flooded, the water inside must be removed before mortar is injected.

### A - B\* - C OPEN CARTRIDGE

Screw the nozzle into the cartridge and place the assembly in the application gun. Squeeze on the trigger repeatedly until the mortar comes out of the nozzle in a uniform grey colour. Any iridescence indicates improper mixing. Always discard the first two doses of each cartridge: these are never to be used for fixing. \*For 300 ml cartridges, cut end of bag, behind seal clip. \*\* Valid only for 300 ml and 410 ml cartridges. For MOPURE and MOPUR3 see technical data sheet

### 7 INJECT MORTAR

Insert the nozzle to the bottom of the drill hole and apply mortar: gradually remove the nozzle, ensuring there are no air bubble.

Fill the hole to  $\frac{1}{2}$  and  $\frac{3}{4}$  of its depth.

In the event of not fully using the cartridge, leave nozzle attached.

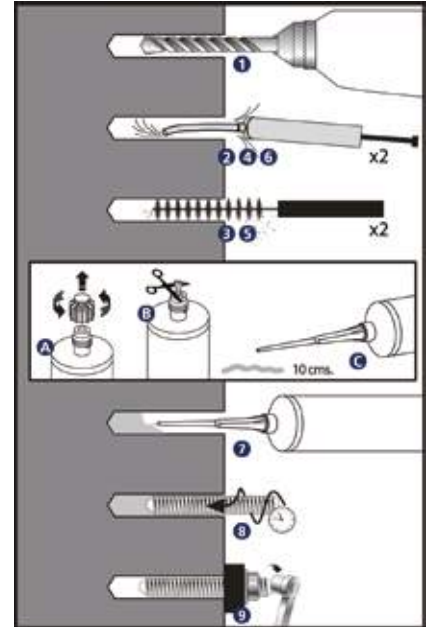
Only change if using again and handling time has expired, remembering to discard the first two doses of mortar.

### 8 INSTALLATION

Introduce the stud to be installed by screwing it lightly down to the installation depth value manually; ensuring the mortar covers the stud thread. The introduction of the anchor must take place within the handling time. The mortar must seep from the top of the drill hole to ensure it is completely full and there are no gaps between the stud and the drill hole.

### 9 APPLY TORQUE

Once the curing time has elapsed, apply torque, never exceeding the values indicated in the table.





## MASONRY SET UP

### 1 DRILL

Check:

- The concrete base is compact and porosity is insignificant.
- That the product is suitable for wet, dry or flooded drill holes.
- Cartridge temperature is correct (check table).
- Base material temperature is correct (check table).

Use drill in rotation mode.

Drill to the specified diameter and depth values specified in the product data sheet.

### 2 - 6 BLOW AND CLEAN

Clear the drill holes completely of dust and fragments by following the procedure shown in the picture.

If the drill hole is flooded, the water must be removed before mortar is injected.

### 4 POSITION SLEEVE (S)

Insert the metal or plastic sleeve into the drill hole so it is level with the surface of the base material.

### A - B\* - C OPEN CARTRIDGE\*\*

Screw the nozzle into the cartridge and place the assembly in the application gun. Squeeze on the trigger repeatedly until the mortar comes out of the nozzle in a uniform grey colour. Any iridescence indicates improper mixing. Always discard the first two doses of each cartridge, these are never to be used for fixing. \*For 170 ml and 300 ml cartridges, cut end of bag, behind seal clip. \*\* Valid only for 300 ml and 410 ml cartridges. For MOPURE and MOPUR3 see technical data sheet.

### 5 INJECT MORTAR

Insert the nozzle to the bottom of the drill hole and apply mortar: gradually remove the nozzle, ensuring there are no air bubbles. Fill the sleeve fully.

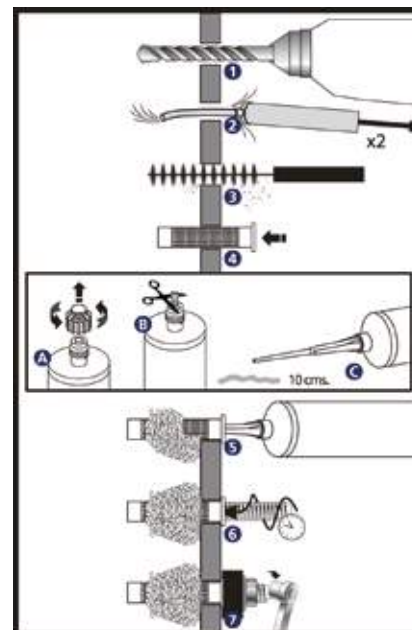
In the event of not fully using the cartridge, leave nozzle attached. Only change if using again and handling time has expired, remembering to discard the first two doses of mortar.

### 8 INSTALLATION

Introduce the stud to be installed by screwing it lightly down to the installation depth value manually; ensuring the mortar covers the stud thread. The introduction of the anchor must take place within the handling time. The mortar must seep from the top of the sleeve hole to ensure it is completely full and there are no gaps between the stud and the drill hole.

### 7 APPLY TORQUE

Once the curing time has elapsed, apply torque, never exceeding the values indicated in the table.



INSTALLATION WITH PLASTIC SLEEVE

| SIZE                  | M8        | M10       | M12       |
|-----------------------|-----------|-----------|-----------|
| OUTER SLEEVE DIAMETER | 15        | 15        | 20        |
| DRILL HOLE LENGTH     | 90        | 90        | 90        |
| PLASTIC SLEEVE        | MOTN15085 | MOTN15085 | MOTN20085 |

INSTALLATION WITH STEEL THREADED SLEEVE

| SIZE                  | M8        | M10       | M12       |
|-----------------------|-----------|-----------|-----------|
| OUTER SLEEVE DIAMETER | 15        | 20        | 20        |
| DRILL HOLE LENGTH     | 90        | 90        | 90        |
| METAL THREADED SLEEVE | MOTR008   | MOTR010   | MOTR012   |
| PLASTIC SLEEVE        | MOTN15085 | MOTN20085 | MOTN20085 |

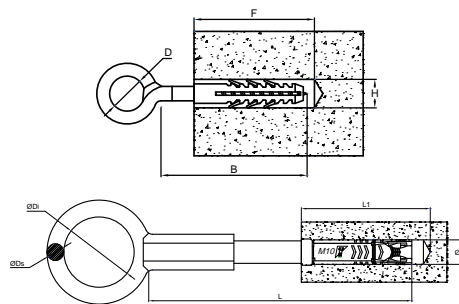
# MANIPULATION / CURED TIMES

|         |          | 0/5  | 5/10 | 10/15 | 15/20 | 20/25 | 25,30 | 30/35 | 35/40 | +40 |
|---------|----------|------|------|-------|-------|-------|-------|-------|-------|-----|
| MO-P    | HANDLING | 18   | 12   | 6     | 6     | 4     | 3     | 2     | 1,5   | 1,5 |
|         | CURING   | 120  | 120  | 80    | 80    | 40    | 30    | 20    | 15    | 10  |
| MO-PS   | HANDLING | 18   | 10   | 6     | 6     | 5     | 4     | 4     | --    | --  |
|         | CURING   | 145  | 145  | 85    | 85    | 40    | 35    | 35    | --    | --  |
| MO-PSP  | HANDLING | 18   | 10   | 6     | 6     | 5     | 4     | 4     | --    | --  |
|         | CURING   | 145  | 145  | 85    | 85    | 40    | 35    | 35    | --    | --  |
| MO-V    | HANDLING | 18   | 12   | 6     | 6     | 4     | 3     | 2     | 1,5   | 1,5 |
|         | CURING   | 120  | 120  | 80    | 80    | 40    | 30    | 20    | 15    | 10  |
| MO-VS   | HANDLING | 18   | 10   | 6     | 6     | 5     | 4     | 4     | --    | --  |
|         | CURING   | 145  | 145  | 85    | 85    | 50    | 40    | 35    | --    | --  |
| MO-H    | HANDLING | --   | 10   | 8     | 6     | 5     | 4     | --    | --    | --  |
|         | CURING   | --   | 145  | 85    | 75    | 50    | 40    | --    | --    | --  |
| MO-HW   | HANDLING | 10   | 5    | 5     | 5     | 100 s | --    | --    | --    | --  |
|         | CURING   | 75   | 50   | 50    | 50    | 20    | --    | --    | --    | --  |
| MOPU-RE | HANDLING | --   | 20   | 20    | 15    | 11    | 8     | 6     | 4     | 3   |
|         | CURING   | --   | 1440 | 720   | 480   | 420   | 360   | 300   | 240   | 180 |
| MO-PUR3 | HANDLING | 300  | 150  | 40    | 25    | 18    | 12    | 8     | 6     | --  |
|         | CURING   | 1440 | 1440 | 1080  | 720   | 480   | 360   | 240   | 120   | --  |
| MO-PU   | HANDLING | 18   | 12   | 6     | 6     | 4     | 3     | 2     | 1,5   | 1,5 |
|         | CURING   | 120  | 120  | 80    | 80    | 40    | 30    | 20    | 15    | 10  |

Minutes

## ANFA

Scaffolding anchoring



## AN-23

Eye diameter 23 mm

| CODE     | MXL      | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MIN. SUBSTRATE THICKNESS | EYE BOLT Ø | TENSION LOAD NON-CRACKED CONCRETE |
|----------|----------|---------|-----------------|-------------------|--------------------------|------------|-----------------------------------|
| ANFA2309 | 12 x 90  | 14 o 16 | 100             | 90                | 130                      | 23         | 119                               |
| ANFA2312 | 12 x 120 | 14 o 16 | 130             | 120               | 160                      | 23         | 119                               |
| ANFA2316 | 12 x 160 | 14 o 16 | 170             | 160               | 200                      | 23         | 119                               |
| ANFA2319 | 12 x 190 | 14 o 16 | 200             | 190               | 230                      | 23         | 119                               |
| ANFA2323 | 12 x 230 | 14 o 16 | 240             | 230               | 270                      | 23         | 119                               |
| ANFA2330 | 12 x 300 | 14 o 16 | 310             | 300               | 340                      | 23         | 119                               |
| ANFA2335 | 12 x 350 | 14 o 16 | 360             | 350               | 390                      | 23         | 119                               |

## AN-51

Eye diameter 51 mm

| CODE     | MXL      | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MIN. SUBSTRATE THICKNESS | EYE BOLT Ø | TENSION LOAD NON-CRACKED CONCRETE |
|----------|----------|---------|-----------------|-------------------|--------------------------|------------|-----------------------------------|
| ANFA5114 | 12 x 140 | 14 o 16 | 150             | 140               | 180                      | 51         | 119                               |
| ANFA5116 | 12 x 160 | 14 o 16 | 170             | 160               | 200                      | 51         | 119                               |
| ANFA5120 | 12 x 200 | 14 o 16 | 210             | 200               | 240                      | 51         | 119                               |
| ANFA5124 | 12 x 240 | 14 o 16 | 250             | 240               | 280                      | 51         | 119                               |

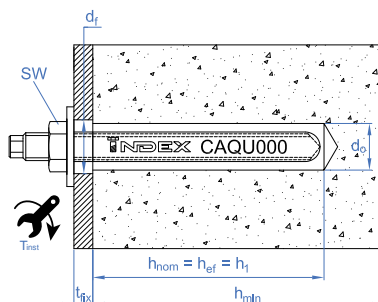
## AN-50 CT

Eye diameter 50 mm + zamak shield M10

| CODE      | MXL       | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | EYE BOLT Ø | TENSION LOAD NON-CRACKED CONCRETE |
|-----------|-----------|-----------------|--------------------------|------------|-----------------------------------|
| ANFAZ5021 | M10 x 210 | 120             | 160                      | 50         | 200                               |

## CA-QU

Epoxy resin, quartz and a phial of hardener. Opt.8 ETA Assessed



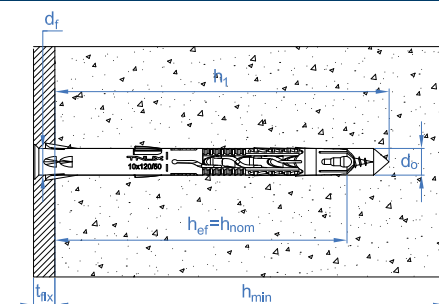
## CA-QU

Epoxy resin, quartz and a phial of hardener. Option 8 ETA Assessed

| CODE    | MXL         | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | TORQUE (NM) | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|---------|-------------|------------------------|---------|-----------------|-------------------|------------------|-------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| CAQU008 | 8 Ø9 / 17   | 17                     | 10      | 80              | 80                | 13               | 10          | 9                | 110                      | 120                       | 240                         | 809                               | 524                             |
| CAQU010 | 10 Ø11 / 25 | 25                     | 12      | 90              | 90                | 17               | 20          | 12               | 120                      | 90                        | 180                         | 1214                              | 815                             |
| CAQU012 | 12 Ø13 / 32 | 32                     | 14      | 110             | 110               | 19               | 40          | 14               | 140                      | 110                       | 220                         | 1618                              | 1223                            |
| CAQU016 | 16 Ø17 / 44 | 44                     | 18      | 125             | 125               | 24               | 80          | 18               | 160                      | 125                       | 250                         | 2023                              | 2272                            |
| CAQU020 | 20 Ø22 / 66 | 66                     | 25      | 170             | 170               | 30               | 120         | 22               | 220                      | 170                       | 340                         | 3034                              | 3553                            |
| CAQU024 | 24 Ø24 / 62 | 62                     | 28      | 210             | 210               | 36               | 180         | 26               | 260                      | 210                       | 420                         | 3641                              | 5126                            |
| CAQU030 | 30 Ø33 / 22 | 22                     | 35      | 280             | 280               | 46               | 400         | 33               | 360                      | 280                       | 560                         | 5461                              | 8496                            |

## T-NUX

Universal high performance nylon plug



## T-NUX A

Countersunk head. Zinc-plated. ETA Assessed

| CODE       | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|------------|----------|------------------------|---------|-----------------|-------------------|------------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| TNUXA08060 | 8 x 60   | 10                     | 8       | 70              | 50                | TX30             | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXA08080 | 8 x 80   | 10                     | 8       | 90              | 70                | TX30             | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXA08100 | 8 x 100  | 30                     | 8       | 90              | 70                | TX30             | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXA08120 | 8 x 120  | 50                     | 8       | 90              | 70                | TX30             | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXA10060 | 10 x 60  | 10                     | 10      | 70              | 50                | TX40             | 10 - 11          | 100                      | 60                        | 100                         | 202                               | 364                             |
| TNUXA10080 | 10 x 80  | 10                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXA10100 | 10 x 100 | 30                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXA10120 | 10 x 120 | 50                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXA10140 | 10 x 140 | 70                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXA10160 | 10 x 160 | 90                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXA10180 | 10 x 180 | 110                    | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXA10200 | 10 x 200 | 130                    | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXA10230 | 10 x 230 | 160                    | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |

**T-NUX A A4** A4 Stainless steel. Countersunk head. ETA Assessed

| CODE       | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|------------|----------|------------------------|---------|-----------------|-------------------|------------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| TNXA408080 | 8 x 80   | 10                     | 8       | 90              | 70                | TX30             | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 307                             |
| TNXA408100 | 8 x 100  | 30                     | 8       | 90              | 70                | TX30             | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 307                             |
| TNXA408120 | 8 x 120  | 50                     | 8       | 90              | 70                | TX30             | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 307                             |
| TNXA410080 | 10 x 80  | 10                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNXA410100 | 10 x 100 | 30                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNXA410120 | 10 x 120 | 50                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNXA410140 | 10 x 140 | 70                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |

**T-NUX E** Hexagonal head. Zinc-plated. ETA Assessed

| CODE       | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|------------|----------|------------------------|---------|-----------------|-------------------|------------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| TNUXE08060 | 8 x 60   |                        | 8       | 70              | 50                | SW10/TX30        | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXE08080 | 8 x 80   | 10                     | 8       | 90              | 70                | SW10/TX30        | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXE08100 | 8 x 100  | 30                     | 8       | 90              | 70                | SW10/TX30        | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXE08120 | 8 x 120  | 50                     | 8       | 90              | 70                | SW10/TX30        | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 263                             |
| TNUXE10060 | 10 x 60  |                        | 10      | 70              | 50                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10080 | 10 x 80  | 10                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10100 | 10 x 100 | 30                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10120 | 10 x 120 | 50                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10140 | 10 x 140 | 70                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10160 | 10 x 160 | 90                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10180 | 10 x 180 | 110                    | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10200 | 10 x 200 | 130                    | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |
| TNUXE10230 | 10 x 230 | 160                    | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 364                             |

**T-NUX E A4** A4 Stainless steel. Hexagonal head. ETA Assessed

| CODE       | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|------------|----------|------------------------|---------|-----------------|-------------------|------------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| TNXE408080 | 8 x 80   | 10                     | 8       | 90              | 70                | SW10/TX30        | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 307                             |
| TNXE408100 | 8 x 100  | 30                     | 8       | 90              | 70                | SW10/TX30        | 8 - 8,5          | 100                      | 60                        | 100                         | 141                               | 307                             |
| TNXE410080 | 10 x 80  | 10                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNXE410100 | 10 x 100 | 30                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNXE410120 | 10 x 120 | 50                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNXE410140 | 10 x 140 | 70                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |

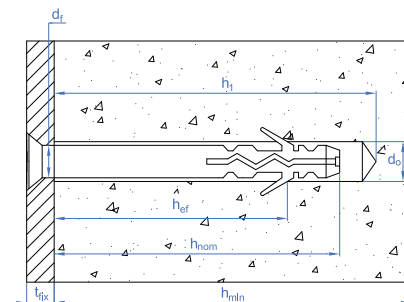
**T-NUX T** Tamperproof Truss Head. Zinc-plated. ETA Assessed

| CODE       | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|------------|----------|------------------------|---------|-----------------|-------------------|------------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| TNUXT10080 | 10 x 80  | 10                     | 10      | 70              | 50                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNUXT10100 | 10 x 100 | 30                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNUXT10120 | 10 x 120 | 50                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNUXT10140 | 10 x 140 | 70                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TNUXT10160 | 10 x 160 | 90                     | 10      | 90              | 70                | TX40             | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |

**T-FUX E** Cylindrical head wall plug. Hexagonal head screw. Zinc-plated. ETA Assessed

| CODE       | MXL      | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | INSTALLATION KEY | Ø ELEMENT TO FIX | MIN. SUBSTRATE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE |
|------------|----------|------------------------|---------|-----------------|-------------------|------------------|------------------|--------------------------|---------------------------|-----------------------------|-----------------------------------|---------------------------------|
| TFUXE10080 | 10 x 80  | 10                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TFUXE10100 | 10 x 100 | 30                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |
| TFUXE10120 | 10 x 120 | 50                     | 10      | 90              | 70                | SW13/TX40        | 10 - 11          | 100                      | 70                        | 100                         | 202                               | 425                             |

**TCA** Polyamide 6.6 hammerfix nylon plug



**TC-6A** 6 winged nylon plug with countersunk screw

| CODE      | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | TENSION LOAD HOLLOW BRICK |
|-----------|---------|------------------------|---------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|---------------------------|
| TC6A08080 | 8 x 80  | 15                     | 8       | 70              | TX30      | 64                                | 37                              | 37                       | 18                        |
| TC6A08100 | 8 x 100 | 35                     | 8       | 70              | TX30      | 64                                | 37                              | 37                       | 18                        |

| CODE      | MXL      | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | TENSION LOAD HOLLOW BRICK |
|-----------|----------|------------------------|--------------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|---------------------------|
| TC6A08120 | 8 x 120  | 55                     | 8            | 70              | TX30      | 64                                | 37                              | 37                       | 18                        |
| TC6A10100 | 10 x 100 | 25                     | 10           | 80              | TX40      | 109                               | 55                              | 53                       | 26                        |
| TC6A10120 | 10 x 120 | 40                     | 10           | 80              | TX40      | 109                               | 55                              | 53                       | 26                        |
| TC6A10140 | 10 x 140 | 60                     | 10           | 80              | TX40      | 109                               | 55                              | 53                       | 26                        |
| TC6A10160 | 10 x 160 | 85                     | 10           | 80              | TX40      | 109                               | 55                              | 53                       | 26                        |
| TC6A10200 | 10 x 200 | 125                    | 10           | 80              | TX40      | 109                               | 55                              | 53                       | 26                        |

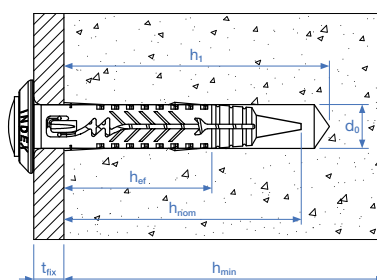
### TC-6E 6 winged nylon plug with hexagonal screw

| CODE      | MXL      | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | TENSION LOAD HOLLOW BRICK |
|-----------|----------|------------------------|--------------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|---------------------------|
| TC6E08080 | 8 x 80   | 15                     | 8            | 70              | 10        | 64                                | 37                              | 37                       | 18                        |
| TC6E08100 | 8 x 100  | 35                     | 8            | 70              | 10        | 64                                | 37                              | 37                       | 18                        |
| TC6E08120 | 8 x 120  | 55                     | 8            | 70              | 10        | 64                                | 37                              | 37                       | 18                        |
| TC6E10100 | 10 x 100 | 25                     | 10           | 80              | 13        | 109                               | 55                              | 53                       | 26                        |
| TC6E10120 | 10 x 120 | 40                     | 10           | 80              | 13        | 109                               | 55                              | 53                       | 26                        |
| TC6E10140 | 10 x 140 | 60                     | 10           | 80              | 13        | 109                               | 55                              | 53                       | 26                        |
| TC6E10160 | 10 x 160 | 85                     | 10           | 80              | 13        | 109                               | 55                              | 53                       | 26                        |
| TC6E10200 | 10 x 200 | 125                    | 10           | 80              | 13        | 109                               | 55                              | 53                       | 26                        |

### TC-2A 2 winged nylon plug with countersunk screw

| CODE      | MXL      | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|-----------|----------|------------------------|--------------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|
| TC2A06060 | 6 x 60   | 30                     | 6            | 35              | 2         | 34                                | 28                              | 10                       |
| TC2A08060 | 8 x 60   | 20                     | 8            | 45              | 3         | 34                                | 37                              | 19                       |
| TC2A08080 | 8 x 80   | 40                     | 8            | 45              | 3         | 40                                | 37                              | 19                       |
| TC2A08100 | 8 x 100  | 60                     | 8            | 45              | 3         | 40                                | 37                              | 19                       |
| TC2A08120 | 8 x 120  | 80                     | 8            | 45              | 3         | 40                                | 37                              | 19                       |
| TC2A10065 | 10 x 65  | 20                     | 10           | 50              | 4         | 45                                | 55                              | 22                       |
| TC2A10080 | 10 x 80  | 35                     | 10           | 50              | 4         | 45                                | 55                              | 22                       |
| TC2A10100 | 10 x 100 | 55                     | 10           | 50              | 4         | 45                                | 55                              | 22                       |
| TC2A10115 | 10 x 115 | 70                     | 10           | 50              | 4         | 45                                | 55                              | 22                       |
| TC2A10135 | 10 x 135 | 90                     | 10           | 50              | 4         | 45                                | 55                              | 22                       |
| TC2A10160 | 10 x 160 | 115                    | 10           | 50              | 4         | 45                                | 55                              | 22                       |

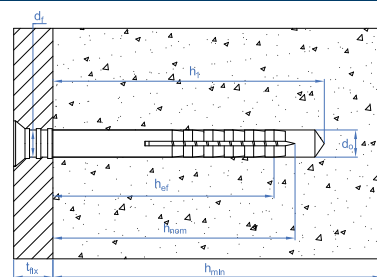
### TC-SP High expansion hammerfix plug



### TC-SP With countersunk head

| CODE      | MXL    | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|-----------|--------|------------------------|--------------|-----------------|-----------|-----------------------------------|--------------------------|
| TCSP05027 | 5 x 27 | 5                      | 5            | 25              |           | 17                                | 5                        |
| TCSP06032 | 6 x 32 | 5                      | 6            | 30              |           | 26                                | 7                        |
| TCSP06040 | 6 x 40 | 10                     | 6            | 30              |           | 26                                | 7                        |

### TC Polyamide 6.6 Hammerfix plug. Preassembled saw-tooth screw



### TC-CA Countersunk plug

| CODE      | MXL    | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|-----------|--------|------------------------|--------------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|
| TCCA05025 | 5 x 25 | 5                      | 5            | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCCA05030 | 5 x 30 | 5                      | 5            | 30              | PZ2       | 13                                | 20                              | 3                        |

| CODE      | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|-----------|---------|------------------------|---------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|
| TCCA05035 | 5 x 35  | 10                     | 5       | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCCA05050 | 5 x 50  | 25                     | 5       | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCCA06035 | 6 x 35  | 10                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCA06040 | 6 x 40  | 10                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCA06050 | 6 x 50  | 20                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCA06060 | 6 x 60  | 30                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCA06070 | 6 x 70  | 40                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCA06080 | 6 x 80  | 50                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCA08060 | 8 x 60  | 20                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCA08080 | 8 x 80  | 40                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCA08100 | 8 x 100 | 60                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCA08120 | 8 x 120 | 80                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCA08140 | 8 x 135 | 100                    | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |

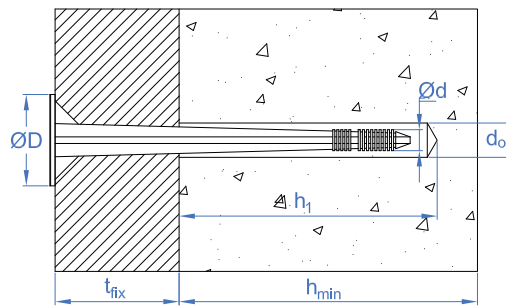
**TC-A2** Countersunk plug and A2 stainless steel screw

| CODE      | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|-----------|---------|------------------------|---------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|
| TCA205030 | 5 x 30  | 5                      | 5       | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCA206040 | 6 x 40  | 10                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCA206060 | 6 x 60  | 30                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCA208060 | 8 x 60  | 20                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCA208080 | 8 x 80  | 40                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCA208100 | 8 x 100 | 60                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |

**TC-CC** Cylindrical head plug

| CODE      | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | N° RECESS | TENSION LOAD NON-CRACKED CONCRETE | SHEAR LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|-----------|---------|------------------------|---------|-----------------|-----------|-----------------------------------|---------------------------------|--------------------------|
| TCCC05025 | 5 x 25  | 5                      | 5       | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCCC05030 | 5 x 30  | 5                      | 5       | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCCC05035 | 5 x 35  | 10                     | 5       | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCCC05050 | 5 x 50  | 25                     | 5       | 30              | PZ2       | 13                                | 20                              | 3                        |
| TCCC06035 | 6 x 35  | 10                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCC06040 | 6 x 40  | 15                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCC06050 | 6 x 50  | 25                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCC06060 | 6 x 60  | 35                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCC06070 | 6 x 70  | 45                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCC06080 | 6 x 80  | 55                     | 6       | 35              | PZ2       | 18                                | 26                              | 4                        |
| TCCC08060 | 8 x 60  | 20                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCC08080 | 8 x 80  | 40                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCC08100 | 8 x 100 | 60                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCC08120 | 8 x 120 | 80                     | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |
| TCCC08140 | 8 x 135 | 100                    | 8       | 45              | PZ3       | 29                                | 30                              | 7                        |

**AIS** Fixing plug for insulation panels



**AIS-C** Plug with polyamide nail

| CODE      | MXL      | METRIC | LENGTH | DRILL Ø | MIN. SUBSTRATE THICKNESS | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | ØD(MM) | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD HOLLOW BRICK | TENSION LOAD SOLID BRICK | TENSION LOAD CRACKED CONCRETE |
|-----------|----------|--------|--------|---------|--------------------------|-----------------|-------------------|------------------------|---------------------------|-----------------------------|--------|-----------------------------------|---------------------------|--------------------------|-------------------------------|
| AISC10070 | 10 x 70  | 10     | 70     | 10      | 100                      | 60              | 50                | 20                     | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10090 | 10 x 90  | 10     | 90     | 10      | 100                      | 60              | 50                | 40                     | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10100 | 10 x 100 | 10     | 100    | 10      | 100                      | 60              | 50                | 50                     | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10120 | 10 x 120 | 10     | 120    | 10      | 100                      | 60              | 50                | 70                     | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10140 | 10 x 140 | 10     | 140    | 10      | 100                      | 60              | 50                | 90                     | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10160 | 10 x 160 | 10     | 160    | 10      | 100                      | 60              | 50                | 110                    | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10180 | 10 x 180 | 10     | 180    | 10      | 100                      | 60              | 50                | 130                    | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10200 | 10 x 200 | 10     | 200    | 10      | 100                      | 60              | 50                | 150                    | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10220 | 10 x 220 | 10     | 220    | 10      | 100                      | 60              | 50                | 170                    | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |
| AISC10260 | 10 x 260 | 10     | 260    | 10      | 100                      | 60              | 50                | 210                    | 100                       | 100                         | 60     | 29                                | 4                         | 36                       | 29                            |



## AIS-S

Plug with metallic nail and polyamide cap

| CODE      | MXL      | METRIC | LENGTH | DRILL Ø | MIN. SUBSTRATE THICKNESS | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | ØD(MM) | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD HOLLOW BRICK | TENSION LOAD SOLID BRICK | TENSION LOAD CRACKED CONCRETE |
|-----------|----------|--------|--------|---------|--------------------------|-----------------|-------------------|------------------------|---------------------------|-----------------------------|--------|-----------------------------------|---------------------------|--------------------------|-------------------------------|
| AISS10070 | 10 x 70  | 10     | 70     | 10      | 100                      | 60              | 50                | 20                     | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10090 | 10 x 90  | 10     | 90     | 10      | 100                      | 60              | 50                | 40                     | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10100 | 10 x 100 | 10     | 100    | 10      | 100                      | 60              | 50                | 50                     | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10120 | 10 x 120 | 10     | 120    | 10      | 100                      | 60              | 50                | 70                     | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10140 | 10 x 140 | 10     | 140    | 10      | 100                      | 60              | 50                | 90                     | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10160 | 10 x 160 | 10     | 160    | 10      | 100                      | 60              | 50                | 110                    | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10180 | 10 x 180 | 10     | 180    | 10      | 100                      | 60              | 50                | 130                    | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10200 | 10 x 200 | 10     | 200    | 10      | 100                      | 60              | 50                | 150                    | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10220 | 10 x 220 | 10     | 220    | 10      | 100                      | 60              | 50                | 170                    | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |
| AISS10260 | 10 x 260 | 10     | 260    | 10      | 100                      | 60              | 50                | 210                    | 100                       | 100                         | 60     | 20                                | 4                         | 23                       | 20                            |

## AIS

Plug

| CODE     | MXL     | MAX. FIXTURE THICKNESS | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | WASHER Ø | TENSION LOAD NON-CRACKED CONCRETE |
|----------|---------|------------------------|---------|-----------------|-------------------|----------|-----------------------------------|
| AIS08080 | 8 x 80  | 50                     | 8       | 30              | 30                | 35       | 1                                 |
| AIS08100 | 8 x 100 | 70                     | 8       | 30              | 30                | 35       | 1                                 |
| AIS08120 | 8 x 120 | 90                     | 8       | 30              | 30                | 35       | 1                                 |
| AIS08140 | 8 x 140 | 110                    | 8       | 30              | 30                | 35       | 1                                 |

## AIS-R

Support washer

| CODE    | MXL  | ØD(MM) | D  |
|---------|------|--------|----|
| AISR140 | Ø140 | 140    | 11 |

## AIS-W

Washer for use with screw

| CODE    | MXL | ØD(MM) | D |
|---------|-----|--------|---|
| AISW060 | Ø60 | 60     | 6 |

## AIS-M

Metallic fixing plug

| CODE      | MXL     | METRIC | LENGTH | DRILL Ø | MIN. SUBSTRATE THICKNESS | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MAX. FIXTURE THICKNESS | MIN. DISTANCE TO EDGE "A" | MIN. DISTANCE FROM AXIS "B" | ØD(MM) |
|-----------|---------|--------|--------|---------|--------------------------|-----------------|-------------------|------------------------|---------------------------|-----------------------------|--------|
| AIMS08090 | 8 x 90  | 8      | 90     | 8       | 100                      | 50              | 40                | 50                     | 100                       | 100                         | 35     |
| AIMS08110 | 8 x 110 | 8      | 110    | 8       | 100                      | 50              | 40                | 70                     | 100                       | 100                         | 35     |
| AIMS08120 | 8 x 120 | 8      | 120    | 8       | 100                      | 50              | 40                | 80                     | 100                       | 100                         | 35     |
| AIMS08140 | 8 x 140 | 8      | 140    | 8       | 100                      | 50              | 40                | 100                    | 100                       | 100                         | 35     |
| AIMS08170 | 8 x 170 | 8      | 170    | 8       | 100                      | 50              | 40                | 130                    | 100                       | 100                         | 35     |
| AIMS08200 | 8 x 200 | 8      | 200    | 8       | 100                      | 50              | 40                | 160                    | 100                       | 100                         | 35     |
| AIMS08250 | 8 x 250 | 8      | 250    | 8       | 100                      | 50              | 40                | 210                    | 100                       | 100                         | 35     |
| AIMS08300 | 8 x 300 | 8      | 300    | 8       | 100                      | 50              | 40                | 260                    | 100                       | 100                         | 35     |

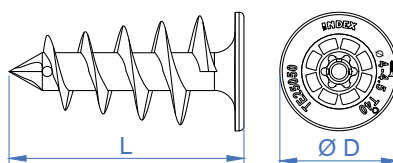
## AIS-AM

Whasher for metallic fixing plug

| CODE      | MXL | ØD(MM) | L1  | D |
|-----------|-----|--------|-----|---|
| AIMSAM085 | Ø85 | 85     | 0,5 | 9 |

## TE

Spiral anchor

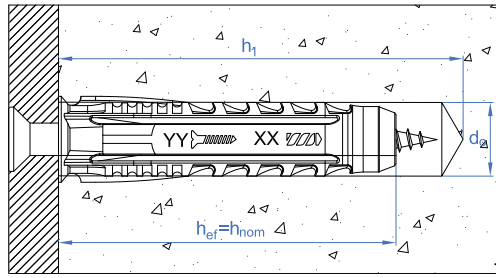


## TE

| CODE    | MXL     | LENGTH | ØD(MM) |
|---------|---------|--------|--------|
| TE25050 | 25 x 50 | 50     | 25     |
| TE25090 | 25 x 90 | 90     | 25     |

# TN4S

4-way expansion plug for all materials



## TN4S

Plug

| CODE   | MXL     | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | TENSION LOAD HOLLOW BRICK | SCREW SIZE       |
|--------|---------|--------------|-----------------|-------------------|--------------------------|-----------------------------------|--------------------------|---------------------------|------------------|
| TN4S05 | 5 x 25  | 5            | 30              | 25                | 35                       | 28                                | 19                       | 13                        | TPPO 2,5-4       |
| TN4S06 | 6 x 30  | 6            | 40              | 30                | 45                       | 61                                | 48                       | 39                        | TPPO 3,5-4       |
| TN4S08 | 8 x 40  | 8            | 50              | 40                | 55                       | 170                               | 104                      | 20                        | TPPO 4,5, TB 5-6 |
| TN4S10 | 10 x 50 | 10           | 60              | 50                | 65                       | 256                               | 160                      | 48                        | TB 6-8           |
| TN4S12 | 12 x 60 | 12           | 70              | 60                | 75                       | 394                               | 104                      | 54                        | TB 8-10          |
| TN4S14 | 14 x 70 | 14           | 80              | 70                | 85                       | 628                               | 224                      | 75                        | TB 10-12         |

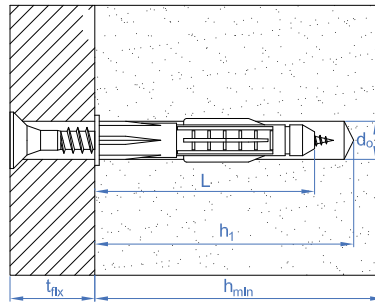
## TN4S-L

Long plug

| CODE    | MXL     | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | TENSION LOAD HOLLOW BRICK | SCREW SIZE       |
|---------|---------|--------------|-----------------|-------------------|--------------------------|-----------------------------------|--------------------------|---------------------------|------------------|
| TN4S06L | 6 x 45  | 6            | 55              | 45                | 60                       | 60                                | 35                       | 39                        | TPPO 3,5-4       |
| TN4S08L | 8 x 60  | 8            | 70              | 60                | 75                       | 129                               | 68                       | 43                        | TPPO 4,5, TB 5-6 |
| TN4S10L | 10 x 80 | 10           | 90              | 80                | 95                       | 0                                 | 210                      | 46                        | TB 6-8           |

# MEDU

Universal plug with collar and knot-like form



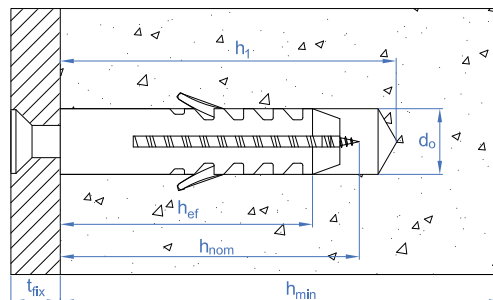
## MEDU

Polypropylene

| CODE    | MXL     | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | TENSION LOAD HOLLOW BRICK |
|---------|---------|--------------|-----------------|--------------------------|-----------------------------------|--------------------------|---------------------------|
| MEDUB06 | 6 x 35  | 6            | 45              | 65                       | 8                                 | 5                        | 4                         |
| MEDUB07 | 8 x 42  | 8            | 50              | 70                       | 12                                | 5                        | 4                         |
| MEDUB08 | 8 x 50  | 8            | 60              | 80                       | 24                                | 5                        | 4                         |
| MEDUB10 | 10 x 60 | 10           | 75              | 95                       | 70                                | 7                        | 5                         |

# TACON

Nylon plug



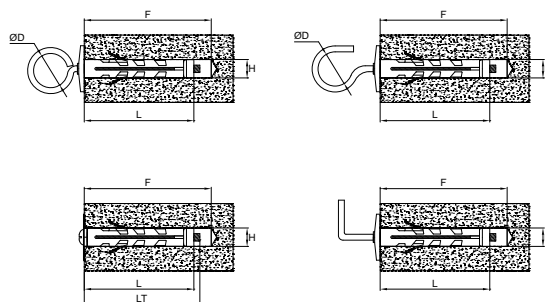
## TACON/TACOL/TACOLA

Plug

| CODE             | MXL    | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | SCREW SIZE |
|------------------|--------|--------------|-----------------|-------------------|--------------------------|-----------------------------------|--------------------------|------------|
| TACON04          | 4 x 20 | 4            | 25              | 20                | 30                       | 6                                 | 4                        | TPPO 2,5-3 |
| TACON05/TACOL05/ | 5 x 25 | 5            | 35              | 25                | 40                       | 7                                 | 5                        | TPPO 2,5-4 |

| CODE                     | MXL     | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK | SCREW SIZE       |
|--------------------------|---------|--------------|-----------------|-------------------|--------------------------|-----------------------------------|--------------------------|------------------|
| TACON06/TACOL06/TACOLA06 | 6 x 30  | 6            | 40              | 30                | 45                       | 10                                | 5                        | TPPO 3,5-4       |
| TACON07                  | 7 x 30  | 7            | 45              | 30                | 45                       | 11                                | 6                        | TPPO 4-4,5       |
| TACON08/TACOL08          | 8 x 40  | 8            | 50              | 40                | 55                       | 12                                | 11                       | TPPO 4,5, TB 5-6 |
| TACON10/TACOL10          | 10 x 50 | 10           | 60              | 50                | 70                       | 61                                | 16                       | TB 6-8           |
| TACON12/TACOL12          | 12 x 60 | 12           | 70              | 60                | 80                       | 76                                | 28                       | TB 8-10          |
| TACON14                  | 14 x 70 | 14           | 80              | 70                | 95                       | 167                               | 88                       | TB 10-12         |
| TACON16                  | 16 x 80 | 16           | 90              | 80                | 100                      | 240                               | 100                      | TB 12-14         |

## IPA Nylon plug in hollow bricks or solid materials



### IPA-GR Corner hook

| CODE    | MXL     | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | WASHER $\phi$ | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|---------|---------|------------------------|--------------|-----------------|-------------------|---------------|-----------------------------------|--------------------------|
| IPAGR09 | M4 x 40 | -                      | 9            | 45              | 40                | 20            | 8                                 | 8                        |
| IPAGR12 | M5 x 45 | -                      | 12           | 50              | 45                | 25            | 12                                | 12                       |

### IPA-GN Hook

| CODE    | MXL     | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | WASHER $\phi$ | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|---------|---------|------------------------|--------------|-----------------|-------------------|---------------|-----------------------------------|--------------------------|
| IPAGN09 | M4 x 40 | -                      | 9            | 45              | 40                | 20            | 8                                 | 8                        |
| IPAGN12 | M5 x 45 | -                      | 12           | 50              | 45                | 25            | 10                                | 10                       |

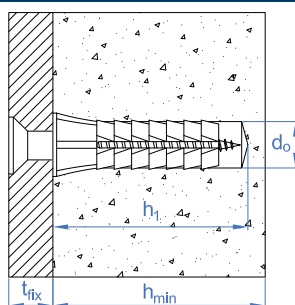
### IPA-AR Eye bolt

| CODE    | MXL     | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | WASHER $\phi$ | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|---------|---------|------------------------|--------------|-----------------|-------------------|---------------|-----------------------------------|--------------------------|
| IPAAR09 | M4 x 40 | -                      | 9            | 45              | 40                | 20            | 8                                 | 8                        |
| IPAAR12 | M5 x 45 | -                      | 12           | 50              | 45                | 25            | 10                                | 10                       |

### IPA-TO Screw

| CODE    | MXL     | MAX. FIXTURE THICKNESS | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | WASHER $\phi$ | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD SOLID BRICK |
|---------|---------|------------------------|--------------|-----------------|-------------------|---------------|-----------------------------------|--------------------------|
| IPATO09 | M4 x 40 | 5                      | 9            | 45              | 40                | 20            | 8                                 | 44                       |
| IPATO12 | M5 x 45 | 5                      | 12           | 50              | 45                | 25            | 12                                | 56                       |

## TA-PL Plastic plug (polypropylene)

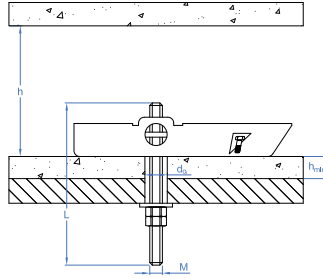


### TA-PL Plastic plug, polypropylene

| CODE    | MXL     | DRILL $\phi$ | HOLE DEPTH MIN. | MIN. SUBSTRATE THICKNESS | TENSION LOAD NON-CRACKED CONCRETE |
|---------|---------|--------------|-----------------|--------------------------|-----------------------------------|
| TACOP05 | 5 x 21  | 5            | 30              | 35                       | 5                                 |
| TACOP06 | 6 x 22  | 6            | 30              | 35                       | 5                                 |
| TACOP07 | 7 x 23  | 7            | 30              | 35                       | 6                                 |
| TACOP08 | 8 x 27  | 8            | 35              | 40                       | 9                                 |
| TACOP09 | 9 x 30  | 9            | 35              | 40                       | 9                                 |
| TACOP10 | 10 x 35 | 10           | 40              | 45                       | 13                                |
| TACOP11 | 10 x 43 | 10           | 50              | 55                       | 15                                |
| TACOP12 | 12 x 45 | 12           | 50              | 55                       | 17                                |
| TACOP14 | 14 x 48 | 14           | 55              | 60                       | 28                                |

# BA-NO

Gravity toggle for fixing lightweight in ceilings



## BA-ES

Projecting bolt

| CODE    | MXL      | MAX. JOINT THICKNESS BASE MATERIAL AND ELEMENT TO BE FIXED $s$ | DRILL $\phi$ | MINIMUM CAVITY "H" | REMOVAL OF CONCRETE BLOCKS | TENSION LOAD PLASTERBOARD | TENSION LOAD PLASTERBOARD |
|---------|----------|--|--------------|--------------------|----------------------------|---------------------------|---------------------------|
| BAESM04 | M4 x 100 | 74   | 14           | 70                 | 10                         | 5                         | 5                         |
| BAESM05 | M5 x 100 | 72   | 14           | 70                 | 12                         | 5                         | 5                         |
| BAESM06 | M6 x 100 | 68   | 16           | 75                 | 13                         | 6                         | 6                         |
| BAESM08 | M8 x 100 | 60   | 20           | 85                 | 14                         | 6                         | 6                         |

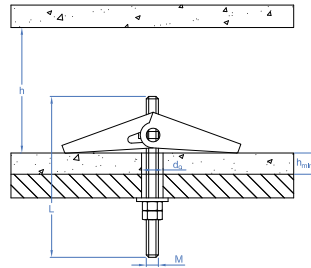
## BA-GA

Hook

| CODE    | MXL     | MAX. JOINT THICKNESS BASE MATERIAL AND ELEMENT TO BE FIXED $s$ | DRILL $\phi$ | MINIMUM CAVITY "H" | REMOVAL OF CONCRETE BLOCKS | TENSION LOAD PLASTERBOARD | TENSION LOAD PLASTERBOARD |
|---------|---------|--|--------------|--------------------|----------------------------|---------------------------|---------------------------|
| BAGAM04 | M4 x 77 | 74   | 14           | 70                 | 10                         | 5                         | 5                         |
| BAGAM05 | M5 x 80 | 72   | 14           | 70                 | 12                         | 5                         | 5                         |
| BAGAM06 | M6 x 87 | 68   | 16           | 75                 | 13                         | 6                         | 6                         |
| BAGAM08 | M8 x 95 | 60   | 20           | 85                 | 14                         | 6                         | 6                         |

# PA-LO

Spring toggle



## PA-ES

Projecting bolt

| CODE    | MXL      | MAX. JOINT THICKNESS BASE MATERIAL AND ELEMENT TO BE FIXED $s$ | DRILL $\phi$ | MINIMUM CAVITY "H" | REMOVAL OF CONCRETE BLOCKS | TENSION LOAD PLASTERBOARD | TENSION LOAD PLASTERBOARD |
|---------|----------|--|--------------|--------------------|----------------------------|---------------------------|---------------------------|
| PAESM04 | M4 x 100 | 75   | 12           | 26                 | 10                         | 5                         | 5                         |
| PAESM05 | M5 x 100 | 70   | 15           | 33                 | 12                         | 5                         | 5                         |
| PAESM06 | M6 x 100 | 66   | 18           | 37                 | 13                         | 6                         | 6                         |
| PAESM08 | M8 x 100 | 61   | 22           | 54                 | 14                         | 6                         | 6                         |

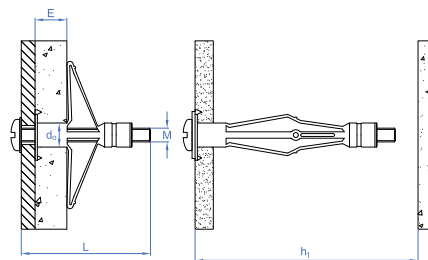
## PA-GA

Hook

| CODE    | MXL     | MAX. JOINT THICKNESS BASE MATERIAL AND ELEMENT TO BE FIXED $s$ | DRILL $\phi$ | MINIMUM CAVITY "H" | REMOVAL OF CONCRETE BLOCKS | TENSION LOAD PLASTERBOARD | TENSION LOAD PLASTERBOARD |
|---------|---------|--|--------------|--------------------|----------------------------|---------------------------|---------------------------|
| PAGAM04 | M4 x 55 | 75   | 12           | 26                 | 10                         | 5                         | 5                         |
| PAGAM05 | M5 x 65 | 70   | 15           | 33                 | 12                         | 5                         | 5                         |
| PAGAM06 | M6 x 80 | 66   | 18           | 37                 | 13                         | 6                         | 6                         |
| PAGAM08 | M8 x 85 | 61   | 22           | 54                 | 14                         | 6                         | 6                         |

# IN

Indemoll anchor for hollow elements fixing



## IN-CO

With panhead screw

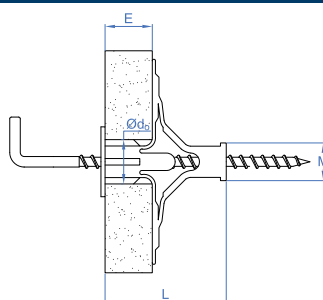
| CODE    | MXL     | DRILL $\phi$ | MINIMUM CAVITY "H" | MIN. SUBSTRATE THICKNESS | MAX. FIXTURE THICKNESS | TENSION LOAD PLASTERBOARD | TENSION LOAD PLASTERBOARD |
|---------|---------|--------------|--------------------|--------------------------|------------------------|---------------------------|---------------------------|
| INCO421 | M4 x 30 | 8            | 30                 | 1-5                      | 17 -hmin               | 20                        | 20                        |
| INCO432 | M4 x 41 | 8            | 41                 | 3-10                     | 22 -hmin               | 20                        | 20                        |

| CODE    | MXL     | DRILL Ø | MINIMUM CAVITY "H" | MIN. SUBSTRATE THICKNESS | MAX. FIXTURE THICKNESS | TENSION LOAD PLASTERBOARD | TENSION LOAD PLASTERBOARD |
|---------|---------|---------|--------------------|--------------------------|------------------------|---------------------------|---------------------------|
| INCO438 | M4 x 47 | 8       | 47                 | 9-16                     | 30 -hmin               | 20                        | 20                        |
| INCO446 | M4 x 53 | 8       | 53                 | 15-22                    | 33 -hmin               | 20                        | 20                        |
| INCO459 | M4 x 67 | 8       | 67                 | 31-36                    | 52 -hmin               | 20                        | 20                        |
| INCO537 | M5 x 46 | 10      | 46                 | 5-14                     | 26 -hmin               | 20                        | 25                        |
| INCO552 | M5 x 59 | 10      | 59                 | 6-18                     | 42 -hmin               | 20                        | 30                        |
| INCO565 | M5 x 72 | 10      | 72                 | 16-33                    | 55 -hmin               | 20                        | 30                        |
| INCO580 | M5 x 89 | 10      | 89                 | 33-46                    | 61 -hmin               | 20                        | 30                        |
| INCO637 | M6 x 46 | 12      | 46                 | 5-13                     | 25 -hmin               | 15                        | 20                        |
| INCO652 | M6 x 59 | 12      | 59                 | 6-17                     | 38 -hmin               | 20                        | 25                        |
| INCO665 | M6 x 72 | 12      | 72                 | 14-32                    | 49 -hmin               | 20                        | 25                        |
| INCO680 | M6 x 89 | 12      | 89                 | 34-46                    | 78 -hmin               | 20                        | 25                        |

**IN-HE** With hexagonal screw

| CODE    | MXL     | DRILL Ø | MINIMUM CAVITY "H" | MIN. SUBSTRATE THICKNESS | MAX. FIXTURE THICKNESS | TENSION LOAD PLASTERBOARD | TENSION LOAD PLASTERBOARD |
|---------|---------|---------|--------------------|--------------------------|------------------------|---------------------------|---------------------------|
| INHE837 | M8 x 45 | 14      | 45                 | 5-13                     | 25 -hmin               | 20                        | 40                        |
| INHE855 | M8 x 60 | 14      | 60                 | 6-18                     | 36 -hmin               | 20                        | 40                        |
| INHE865 | M8 x 73 | 14      | 73                 | 17-33                    | 47 -hmin               | 20                        | 40                        |

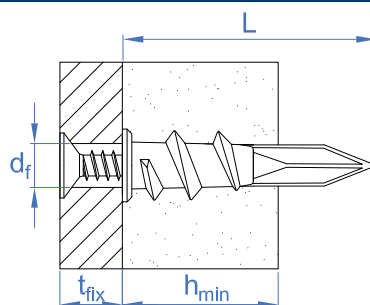
**ANCLA** Nylon plug for hollow bricks and plasterboard



**ANCLA** Nylon anchor for use in hollow bricks and plasterboard panel walls

| CODE    | MXL     | DRILL Ø | MIN. SUBSTRATE THICKNESS | TENSION LOAD HOLLOW BRICK | TENSION LOAD PLASTERBOARD |
|---------|---------|---------|--------------------------|---------------------------|---------------------------|
| ANCLA40 | 10 x 40 | 10      | 4-12                     | 10                        | 5                         |
| ANCLA47 | 10 x 47 | 10      | 15-19                    | 10                        | 5                         |

**TAPLA** Plugs for plasterboard



**TAPLA NY** Nylon plug

| CODE    | MXL     | MIN. SUBSTRATE THICKNESS | SUITABLE FOR                      | N° RECESS | TENSION LOAD PLASTERBOARD |
|---------|---------|--------------------------|-----------------------------------|-----------|---------------------------|
| TAPLANY | 15 x 33 | 9-16                     | TPPO 4,5 x 40 / DIN-7981 4,2 x 38 | PH3       | 8                         |

**TAPLA ME** Zamak plug with DIN 7981 4,2 x 32

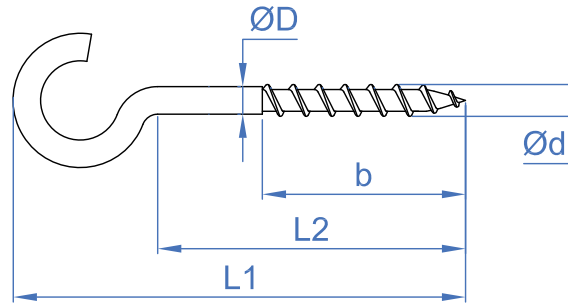
| CODE    | MXL     | MIN. SUBSTRATE THICKNESS | SUITABLE FOR      | N° RECESS | TENSION LOAD PLASTERBOARD |
|---------|---------|--------------------------|-------------------|-----------|---------------------------|
| TAPLAME | 13 x 32 | 9-16                     | DIN-7981 4,2 x 32 | PH2/PH3   | 8                         |

**TAPLA ZK** Zamak plug

| CODE    | MXL     | MIN. SUBSTRATE THICKNESS | SUITABLE FOR                      | N° RECESS | TENSION LOAD PLASTERBOARD |
|---------|---------|--------------------------|-----------------------------------|-----------|---------------------------|
| TAPLAZK | 13 x 37 | 9-16                     | TPPO 4,5 x 50 / DIN-7981 4,2 x 38 | PZ3       | 8                         |

# AL

## Screw eyes



### AL-HA

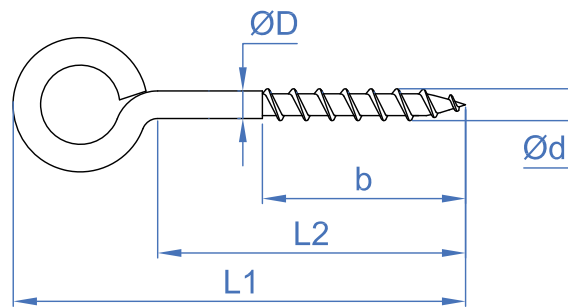
Open steel eye bolt

| CODE      | MXL           | Ød  | L1 | B  | L2 | ØD  |
|-----------|---------------|-----|----|----|----|-----|
| ALHA14025 | 2,6 x 18 x 7  | 2,6 | 18 | 7  | 10 | 2,1 |
| ALHA16030 | 3,1 x 22 x 9  | 3,1 | 22 | 9  | 12 | 2,4 |
| ALHA17040 | 3,5 x 26 x 10 | 3,5 | 26 | 10 | 14 | 2,7 |
| ALHA18040 | 4,1 x 29 x 10 | 4,1 | 29 | 10 | 15 | 3,2 |
| ALHA18050 | 4,1 x 34 x 12 | 4,1 | 34 | 12 | 20 | 3,2 |
| ALHA19050 | 4,4 x 33 x 12 | 4,4 | 33 | 12 | 18 | 3,4 |
| ALHA19060 | 4,4 x 39 x 15 | 4,4 | 39 | 15 | 22 | 3,4 |
| ALHA19070 | 4,4 x 41 x 15 | 4,4 | 41 | 15 | 24 | 3,4 |
| ALHA20050 | 5 x 35 x 12   | 5   | 35 | 12 | 19 | 3,9 |
| ALHA20060 | 5 x 39 x 12   | 5   | 39 | 12 | 21 | 3,9 |
| ALHA20070 | 5 x 44 x 14   | 5   | 44 | 14 | 26 | 3,9 |
| ALHA20080 | 5 x 50 x 18   | 5   | 50 | 18 | 30 | 3,9 |
| ALHA21070 | 5,6 x 43 x 14 | 5,6 | 43 | 14 | 23 | 4,4 |
| ALHA21080 | 5,6 x 48 x 14 | 5,6 | 48 | 14 | 28 | 4,4 |
| ALHA21090 | 5,6 x 56 x 14 | 5,6 | 56 | 14 | 32 | 4,4 |
| ALHA21100 | 5,6 x 61 x 18 | 5,6 | 61 | 18 | 37 | 4,4 |
| ALHA22110 | 6 x 69 x 24   | 6   | 69 | 24 | 43 | 4,7 |
| ALHA22120 | 6 x 74 x 29   | 6   | 74 | 29 | 48 | 4,7 |
| ALHA23130 | 6,3 x 82 x 35 | 6,3 | 82 | 35 | 55 | 5,2 |

### AL-HA B

Open steel eye bolt. White lacquered

| CODE       | MXL           | Ød  | L1 | B  | L2 | ØD  |
|------------|---------------|-----|----|----|----|-----|
| ALHAB16030 | 3,1 x 22 x 9  | 3,1 | 22 | 9  | 12 | 2,4 |
| ALHAB17040 | 3,5 x 26 x 10 | 3,5 | 26 | 10 | 14 | 2,7 |
| ALHAB18050 | 4,1 x 34 x 12 | 4,1 | 34 | 12 | 20 | 3,2 |
| ALHAB19060 | 4,4 x 39 x 15 | 4,4 | 39 | 15 | 22 | 3,4 |



### AL-HC

Closed steel eye bolt

| CODE      | MXL           | Ød  | L1 | B  | L2 | ØD  |
|-----------|---------------|-----|----|----|----|-----|
| ALHC14025 | 2,6 x 18 x 7  | 2,6 | 18 | 7  | 10 | 2,1 |
| ALHC16030 | 3,1 x 22 x 9  | 3,1 | 22 | 9  | 12 | 2,4 |
| ALHC17040 | 3,5 x 28 x 10 | 3,5 | 28 | 10 | 14 | 2,7 |
| ALHC18040 | 4,1 x 30 x 10 | 4,1 | 30 | 10 | 15 | 3,2 |
| ALHC18050 | 3,7 x 39 x 12 | 4,1 | 35 | 12 | 20 | 3,2 |
| ALHC19050 | 4,4 x 35 x 12 | 4,4 | 35 | 12 | 18 | 3,4 |
| ALHC19060 | 4,4 x 42 x 15 | 4,4 | 38 | 15 | 22 | 3,4 |
| ALHC19070 | 4,4 x 44 x 15 | 4,4 | 40 | 15 | 24 | 3,4 |

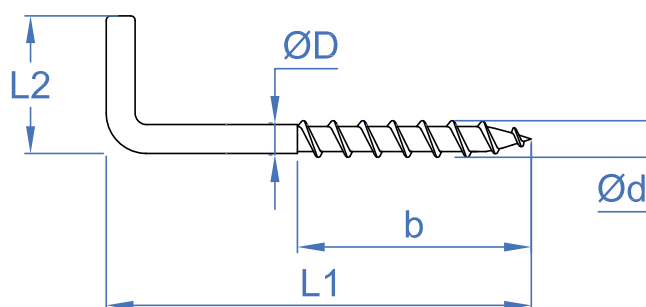


| CODE      | MXL           | Ød  | L1   | B  | L2 | ØD  |
|-----------|---------------|-----|------|----|----|-----|
| ALHC20050 | 5 x 39 x 12   | 5   | 35   | 12 | 19 | 3,9 |
| ALHC20060 | 5 x 41 x 12   | 5   | 39   | 12 | 21 | 3,9 |
| ALHC20070 | 5 x 48 x 14   | 5   | 43,8 | 14 | 26 | 3,9 |
| ALHC20080 | 5 x 54 x 18   | 5   | 50   | 18 | 30 | 3,9 |
| ALHC21070 | 5,6 x 49 x 14 | 5,6 | 43   | 14 | 23 | 4,4 |
| ALHC21080 | 5,6 x 54 x 14 | 5,6 | 48   | 14 | 28 | 4,4 |
| ALHC21090 | 5,6 x 61 x 14 | 5,6 | 56   | 14 | 32 | 4,4 |
| ALHC21100 | 5,6 x 66 x 18 | 5,6 | 62   | 18 | 37 | 4,4 |
| ALHC22110 | 6 x 73 x 24   | 6   | 69   | 24 | 43 | 4,7 |
| ALHC22120 | 6 x 81 x 29   | 6   | 75   | 29 | 48 | 4,7 |
| ALHC23130 | 6,3 x 89 x 35 | 6,3 | 83   | 35 | 55 | 5,2 |

## AL-HC B

Closed steel eye bolt. White lacquered

| CODE       | MXL           | Ød  | L1 | B  | L2 | ØD  |
|------------|---------------|-----|----|----|----|-----|
| ALHCB16030 | 3,1 x 22 x 9  | 3,1 | 22 | 9  | 12 | 2,4 |
| ALHCB17040 | 3,5 x 28 x 10 | 3,5 | 28 | 10 | 14 | 2,7 |
| ALHCB18050 | 3,7 x 39 x 12 | 3,7 | 39 | 12 | 20 | 3,2 |
| ALHCB19060 | 4,4 x 42 x 15 | 4,4 | 42 | 15 | 22 | 3,4 |



## AL-RO

Threaded hook screw

| CODE      | MXL            | Ød  | L1  | L2 | B  | ØD  |
|-----------|----------------|-----|-----|----|----|-----|
| ALRO14025 | 2,6 x 17 x 10  | 2,6 | 17  | 10 | 10 | 2   |
| ALRO16030 | 3,1 x 20 x 10  | 3,1 | 20  | 10 | 12 | 2,4 |
| ALRO17040 | 3,5 x 29 x 13  | 3,5 | 29  | 13 | 17 | 2,7 |
| ALRO18040 | 3,7 x 28 x 14  | 3,7 | 28  | 14 | 17 | 2,9 |
| ALRO18050 | 3,7 x 37 x 15  | 3,7 | 37  | 15 | 22 | 2,9 |
| ALRO19050 | 4,4 x 37 x 15  | 4,4 | 37  | 15 | 22 | 3,4 |
| ALRO19060 | 4,4 x 46 x 17  | 4,4 | 46  | 17 | 28 | 3,4 |
| ALRO19070 | 4,4 x 55 x 18  | 4,4 | 55  | 18 | 33 | 3,4 |
| ALRO20060 | 5 x 44 x 20    | 5   | 44  | 20 | 26 | 3,9 |
| ALRO20070 | 5 x 53 x 20    | 5   | 53  | 20 | 32 | 3,9 |
| ALRO20080 | 5 x 63 x 21    | 5   | 63  | 21 | 38 | 3,9 |
| ALRO21080 | 5,6 x 60 x 22  | 5,6 | 60  | 22 | 36 | 4,4 |
| ALRO21090 | 5,6 x 70 x 22  | 5,6 | 70  | 22 | 42 | 4,4 |
| ALRO22100 | 6 x 79 x 23    | 6   | 79  | 23 | 47 | 4,7 |
| ALRO22110 | 6 x 86 x 23    | 6   | 86  | 23 | 52 | 4,7 |
| ALRO22120 | 6 x 97 x 25    | 6   | 97  | 25 | 58 | 4,7 |
| ALRO23130 | 7,8 x 105 x 25 | 7,8 | 105 | 25 | 63 | 5,8 |

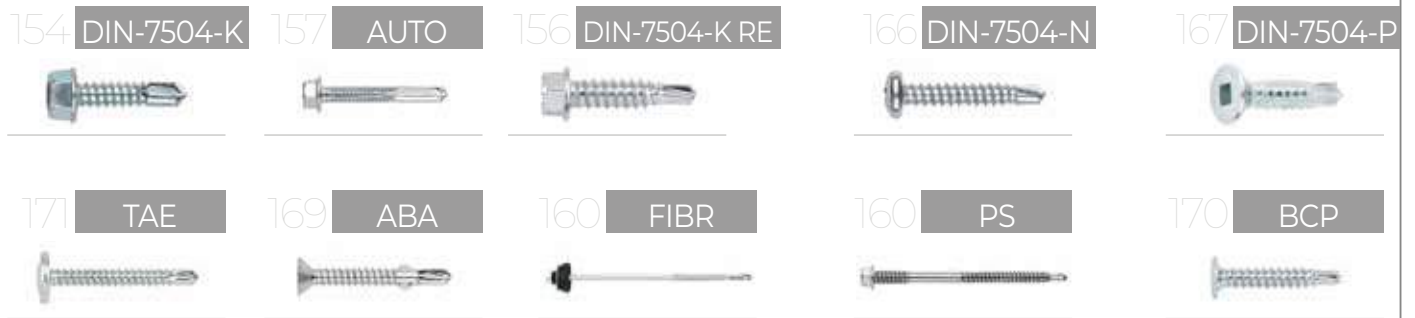
## AL-RO B

Threaded hook screw. White lacquered

| CODE       | MXL           | Ød  | L1 | L2 | B  | ØD  |
|------------|---------------|-----|----|----|----|-----|
| ALROB16030 | 3,1 x 20 x 10 | 3,1 | 20 | 10 | 10 | 2,4 |
| ALROB17040 | 3,5 x 29 x 13 | 3,5 | 29 | 13 | 13 | 2,7 |
| ALROB18050 | 3,7 x 37 x 15 | 3,7 | 37 | 15 | 18 | 2,9 |
| ALROB19060 | 4,4 x 46 x 17 | 4,4 | 46 | 17 | 24 | 3,4 |

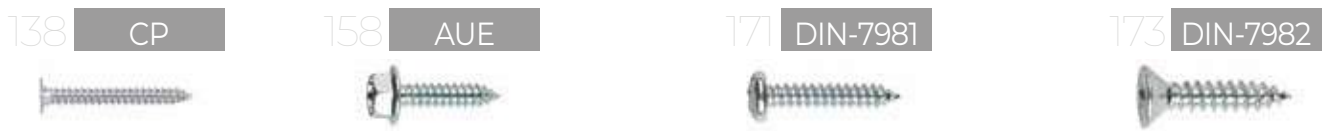
### Self-drilling installation parameters

|                            |                 |     | ø 3.5        | ø 3.9 | ø 4.2 | ø 4.8 | ø 5.5       | ø 6.3 |
|----------------------------|-----------------|-----|--------------|-------|-------|-------|-------------|-------|
| Maximum installation force | N               |     | 150          | 200   | 250   | 250   | 350         | 350   |
| Drilling speed             | Steel           | rpm | 1.800 - 2500 |       |       |       | 1000 - 1800 |       |
|                            | Stainless steel | rpm | 1.000 - 1500 |       |       |       | 600 - 1000  |       |
| Maximum torque             | Nm              |     | 2.8          | 3.8   | 4.7   | 6.9   | 10.4        | 16.9  |



### Self tapping pilot hole diameter

| Size       | Sheet thickness | Ø Hole diameter |       | Size        | Sheet thickness | Ø Hole diameter |       |
|------------|-----------------|-----------------|-------|-------------|-----------------|-----------------|-------|
|            |                 | Aluminium       | Steel |             |                 | Aluminium       | Steel |
| 2,9<br>N°4 | 0,4 - 0,6       | 2,20            | 2,25  | 4,8<br>N°10 | 0,4 - 0,6       | -               | -     |
|            | 0,6 - 1,0       | 2,20            | 2,40  |             | 0,6 - 1,0       | 3,70            | 3,80  |
|            | 1,0 - 1,5       | 2,25            | 2,40  |             | 1,0 - 1,5       | 3,70            | 3,80  |
|            | 1,5 - 2,5       | 2,40            | 2,50  |             | 1,5 - 2,5       | 3,80            | 3,90  |
|            | 2,5 - 4,0       | -               | -     |             | 2,5 - 4,0       | 3,80            | 4,00  |
| 3,5<br>N°6 | 0,4 - 0,6       | 2,70            | 2,70  | 5,5<br>N°12 | 0,4 - 0,6       | -               | -     |
|            | 0,6 - 1,0       | 2,70            | 2,80  |             | 0,6 - 1,0       | 4,30            | 4,40  |
|            | 1,0 - 1,5       | 2,80            | 2,80  |             | 1,0 - 1,5       | 4,30            | 4,40  |
|            | 1,5 - 2,5       | 2,80            | 2,90  |             | 1,5 - 2,5       | 4,40            | 4,50  |
|            | 2,5 - 4,0       | -               | 3,00  |             | 2,5 - 4,0       | 4,40            | 4,60  |
| 3,9<br>N°7 | 0,4 - 0,6       | -               | -     | 6,3<br>N°14 | 0,4 - 0,6       | -               | -     |
|            | 0,6 - 1,0       | 3,00            | 3,10  |             | 0,6 - 1,0       | 5,00            | 5,10  |
|            | 1,0 - 1,5       | 3,00            | 3,10  |             | 1,0 - 1,5       | 5,00            | 5,10  |
|            | 1,5 - 2,5       | 3,10            | 3,20  |             | 1,5 - 2,5       | 5,10            | 5,20  |
|            | 2,5 - 4,0       | 3,10            | 3,30  |             | 2,5 - 4,0       | 5,10            | 5,30  |
| 4,2<br>N°8 | 0,4 - 0,6       | -               | -     |             |                 |                 |       |
|            | 0,6 - 1,0       | 3,20            | 3,30  |             |                 |                 |       |
|            | 1,0 - 1,5       | 3,20            | 3,30  |             |                 |                 |       |
|            | 1,5 - 2,5       | 3,30            | 3,40  |             |                 |                 |       |
|            | 2,5 - 4,0       | 3,30            | 3,50  |             |                 |                 |       |



### Self-drilling screw selection

| PRODUCT                 | Ø   | THICKNESS TO BE DRILLED IN STEEL [mm] |  |     |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
|-------------------------|-----|---------------------------------------|--|-----|--|--|--|------|--|--|--|--|--|------|--|--|--|--|--|-----|--|--|--|------|--|
| AUTO                    | 5,5 | 4,0                                   |  |     |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  | 12,0 |  |
| ABE<br>ABR<br>ABP<br>RS | 6,3 | 2,5                                   |  |     |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  | 6,0 |  |  |  |      |  |
|                         | 5,5 | 1,75                                  |  |     |  |  |  |      |  |  |  |  |  | 5,25 |  |  |  |  |  |     |  |  |  |      |  |
|                         | 4,8 | 1,75                                  |  |     |  |  |  |      |  |  |  |  |  | 4,4  |  |  |  |  |  |     |  |  |  |      |  |
|                         | 4,2 | 1,75                                  |  |     |  |  |  |      |  |  |  |  |  | 3,0  |  |  |  |  |  |     |  |  |  |      |  |
|                         | 3,9 | 0,7                                   |  |     |  |  |  | 2,4  |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
|                         | 3,5 | 0,7                                   |  |     |  |  |  | 2,25 |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
| ABA / ATA               | 6,3 | 2,5                                   |  |     |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  | 6,0 |  |  |  |      |  |
|                         | 5,5 | 1,75                                  |  |     |  |  |  |      |  |  |  |  |  | 5,0  |  |  |  |  |  |     |  |  |  |      |  |
|                         | 4,8 | 1,75                                  |  |     |  |  |  |      |  |  |  |  |  | 4,0  |  |  |  |  |  |     |  |  |  |      |  |
| TAE                     | 4,2 | 0,75                                  |  |     |  |  |  | 2,5  |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
| BCP                     | 4,2 | 0,7                                   |  |     |  |  |  | 2,0  |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
| ARE                     | 6,3 | 1,0                                   |  |     |  |  |  | 1,5  |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
|                         | 5,5 | 1,0                                   |  |     |  |  |  | 1,5  |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
|                         | 4,8 | 0,3                                   |  | 1,0 |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
| PS                      | 5,5 | 1,5                                   |  |     |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  | 6,0 |  |  |  |      |  |
| PSL                     | 5,5 | 6,0                                   |  |     |  |  |  |      |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  | 12,0 |  |

0,00 0,25 0,50 0,75 1,00 1,25 1,50 1,75 2,00 2,25 2,50 2,75 3,00 3,25 3,50 3,75 4,00 4,25 4,50 4,75 5,00 5,25 5,50 5,75 6,00 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 10,5 11,0 11,5 12,0

| PRODUCT | Ø   | THICKNESS TO BE DRILLED IN ALUMINUM [mm] |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  |      |  |
|---------|-----|--|--|--|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|-----|--|--|--|------|--|
| BIE     | 4,8 | 1,75                                     |  |  |  |  |  |  |  |  |  |  |  | 4,4  |  |  |  |  |  |     |  |  |  |      |  |
|         | 5,5 | 1,75                                     |  |  |  |  |  |  |  |  |  |  |  | 5,25 |  |  |  |  |  |     |  |  |  |      |  |
|         | 6,3 | 2,5                                      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  | 6,0 |  |  |  |      |  |
| BAUTO   | 5,5 | 4,0                                      |  |  |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |     |  |  |  | 12,0 |  |

0,00 0,25 0,50 0,75 1,00 1,25 1,50 1,75 2,00 2,25 2,50 2,75 3,00 3,25 3,50 3,75 4,00 4,25 4,50 4,75 5,00 5,25 5,50 5,75 6,00 6,5 7,0 7,5 8,0 8,5 9,0 9,5 10,0 10,5 11,0 11,5 12,0

### Maximum fixture thickness

| LENGTH | ST 3,5 | ST 3,9 | ST 4,2 | ST 4,8 | ST 5,5 | ST 6,3 |
|--------|--------|--------|--------|--------|--------|--------|
| 9,5    | 2,85   |        |        |        |        |        |
| 11     | 4,2    |        |        |        |        |        |
| 13     | 6,2    | 5,8    | 4,3    | 3,7    |        |        |
| 16     | 9,2    | 8,8    | 7,3    | 5,5    |        |        |
| 19     | 12,1   | 11,7   | 10,3   | 8,7    | 8,7    | 7      |
| 22     | 15,1   | 14,7   | 13,3   | 11,7   | 11,7   | 10     |
| 25     | 18,1   | 17,7   | 16,3   | 14,7   | 14,7   | 13     |
| 32     | 25,1   | 24,5   | 23     | 21,5   | 21,5   | 20     |
| 38     |        | 30,5   | 29     | 27,5   | 27,5   | 26     |
| 45     |        |        | 36     | 34,5   | 34,5   | 33     |
| 50     |        |        | 41     | 39,5   | 39,5   | 38     |
| 60     |        |        |        | 49,5   | 49,5   | 48     |
| 63     |        |        |        | 52,5   | 52,5   | 51     |
| 73     |        |        |        | 62,5   | 62,5   | 61     |
| 75     |        |        |        | 64,5   | 64,5   | 63     |
| 80     |        |        |        | 69,5   |        | 68     |
| 90     |        |        |        | 79,5   |        | 78     |
| 100    |        |        |        | 89,5   |        | 88     |
| 110    |        |        |        |        |        | 98     |
| 120    |        |        |        |        |        | 108    |
| 130    |        |        |        |        |        | 118    |
| 140    |        |        |        |        |        | 128    |

\* Not suitable for AUTO screw

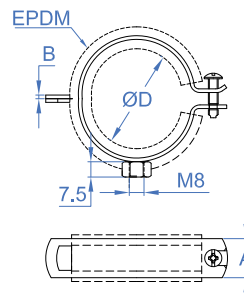
## AB-IA / AB-RA Reinforced pipe clamp M8 opened



## AB-RA / AB-IA Reinforced pipe clamp M8 opened

| CODE              | ØD(MM)    | ØD(°)  | A X B    | MAXIMUM LOAD |
|-------------------|-----------|--------|----------|--------------|
| ABIA015 / ABRA015 | 12 - 16   | 1/4"   | 20 x 1,5 | 80           |
| ABIA018 / ABRA018 | 15 - 19   | 3/8"   | 20 x 1,5 | 80           |
| ABIA022 / ABRA022 | 20 - 25   | 1/2"   | 20 x 1,5 | 80           |
| ABIA028 / ABRA028 | 26 - 30   | 3/4"   | 20 x 1,5 | 80           |
| ABIA035 / ABRA035 | 32 - 36   | 1"     | 20 x 1,5 | 80           |
| ABIA042 / ABRA042 | 38 - 43   | 1 1/4" | 20 x 1,5 | 80           |
| ABIA048 / ABRA048 | 47 - 51   | 1 1/2" | 20 x 1,5 | 80           |
| ABIA054 / ABRA054 | 53 - 58   | -      | 20 x 1,5 | 80           |
| ABIA060 / ABRA060 | 60 - 64   | 2"     | 20 x 1,5 | 80           |
| ABIA075 / ABRA075 | 75 - 80   | 2 1/2" | 20 x 1,5 | 80           |
| ABIA090 / ABRA090 | 87 - 92   | 3"     | 20 x 1,5 | 80           |
| ABIA100 / ABRA100 | 99 - 105  | 3 1/2" | 20 x 1,5 | 80           |
| ABIA110 / ABRA110 | 107 - 112 | -      | 20 x 1,5 | 80           |
| ABIA115 / ABRA115 | 113 - 118 | 4"     | 20 x 1,5 | 80           |
| ABIA125 / ABRA125 | 125 - 130 | 4 1/2" | 20 x 1,5 | 80           |

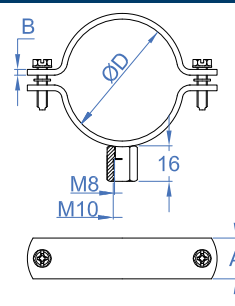
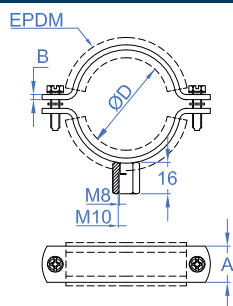
## AB-IR Isophonic pipe clamp M8 fast-clip



## AB-IR Isophonic pipe clamp M8 fast-clip

| CODE    | ØD(MM)  | ØD(°)  | A X B     | MAXIMUM LOAD |
|---------|---------|--------|-----------|--------------|
| ABIR015 | 14 - 15 | 1/4"   | 19 x 1,25 | 60           |
| ABIR018 | 16 - 19 | 3/8"   | 19 x 1,25 | 60           |
| ABIR022 | 21 - 23 | 1/2"   | 19 x 1,25 | 60           |
| ABIR028 | 26 - 28 | 3/4"   | 19 x 1,25 | 60           |
| ABIR035 | 32 - 35 | 1"     | 19 x 1,25 | 60           |
| ABIR040 | 40 - 43 | 1 1/4" | 19 x 1,25 | 60           |
| ABIR048 | 48 - 51 | 1 1/2" | 19 x 1,25 | 60           |
| ABIR054 | 52 - 56 | -      | 19 x 1,25 | 60           |
| ABIR060 | 57 - 60 | 2"     | 19 x 1,25 | 60           |

# AB-RI / AB-RE Reinforced isophonic pipe clamp M8 + M10



## AB-RI / AB-RE Zinc-plated

| CODE              | ØD(MM)    | ØD(")  | A X B     | MAXIMUM LOAD |
|-------------------|-----------|--------|-----------|--------------|
| ABRI018 / ABRE018 | 15 - 19   | 3/8"   | 18,5x1,35 | 80           |
| ABRI022 / ABRE022 | 20 - 25   | 1/2"   | 18,5x1,35 | 80           |
| ABRI028 / ABRE028 | 26 - 30   | 3/4"   | 18,5x1,35 | 80           |
| ABRI035 / ABRE035 | 32 - 36   | 1"     | 18,5x1,35 | 80           |
| ABRI040 / ABRE040 | 38 - 43   | 1 1/4" | 18,5x1,35 | 80           |
| ABRI048 / ABRE048 | 47 - 51   | 1 1/2" | 18,5x1,35 | 80           |
| ABRI054 / ABRE054 | 53 - 56   | -      | 18,5x1,35 | 80           |
| ABRI060 / ABRE060 | 60 - 64   | 2"     | 18,5x1,35 | 80           |
| ABRI070 / ABRE070 | 68 - 72   | -      | 18,5x1,35 | 80           |
| ABRI075 / ABRE075 | 75 - 80   | 2 1/2" | 18,5x1,75 | 150          |
| ABRI083 / ABRE083 | 81 - 86   | -      | 18,5x1,75 | 150          |
| ABRI090 / ABRE090 | 87 - 92   | 3"     | 18,5x1,75 | 150          |
| ABRI100 / ABRE100 | 99 - 105  | 3 1/2" | 18,5x1,75 | 150          |
| ABRI110 / ABRE110 | 107 - 112 | -      | 18,5x1,75 | 150          |
| ABRI115 / ABRE115 | 113 - 118 | 4"     | 18,5x2,3  | 200          |
| ABRI125 / ABRE125 | 125 - 130 | 4 1/2" | 18,5x2,3  | 200          |
| ABRI133 / ABRE133 | 132 - 137 | -      | 18,5x2,3  | 200          |
| ABRI140 / ABRE140 | 138 - 142 | 5"     | 18,5x2,3  | 200          |
| ABRI150 / ABRE150 | 148 - 152 | -      | 18,5x2,3  | 200          |
| ABRI160 / ABRE160 | 159 - 166 | 6"     | 18,5x2,3  | 200          |
| ABRI180 / ABRE180 | 179 - 184 | -      | 18,5x2,3  | 200          |
| ABRI200 / ABRE200 | 199 - 212 | -      | 18,5x2,3  | 200          |
| ABRI220 / ABRE220 | 215 - 226 | 8"     | 18,5x2,3  | 200          |
| ABRI250 / ABRE250 | 245 - 254 | -      | 18,5x2,3  | 200          |
| ABRI280 / ABRE280 | 278 - 284 | -      | 18,5x2,3  | 200          |
| ABRI300 / ABRE300 | 299 - 304 | -      | 18,5x2,3  | 200          |
| ABRI315 / ABRE315 | 314 - 319 | -      | 18,5x2,3  | 200          |
| ABRI355 / ABRE355 | 354 - 359 | -      | 18,5x2,3  | 200          |

## AB-RI V / AB-RE V Zinc-plated

| CODE              | ØD(MM)        | ØD(") | A X B    | MAXIMUM LOAD |
|-------------------|---------------|-------|----------|--------------|
| ABRI250 / ABRE250 | 245 - 254     | -     | 18,5x2,3 | 200          |
| ABRI280 / ABRE280 | 278 - 284     | -     | 18,5x2,3 | 200          |
| ABRI300 / ABRE300 | 299 - 304     | -     | 18,5x2,3 | 200          |
| ABRI315 / ABRE315 | 314 - 319     | -     | 18,5x2,3 | 200          |
| ABRI355 / ABRE355 | 354 - 359     | -     | 18,5x2,3 | 200          |
| ABRI400 / ABRE400 | 399 - 404     | -     | 18,5x2,3 | 200          |
| ABRI450 / ABRE450 | 449 - 454     | -     | 18,5x2,3 | 200          |
| ABRI500 / ABRE500 | 499 - 504     | -     | 18,5x2,3 | 200          |
| ABRI560 / ABRE560 | 555 - 561     | -     | 18,5x2,3 | 200          |
| ABRI600 / ABRE600 | 599 - 604     | -     | 18,5x2,3 | 200          |
| ABRI630 / ABRE630 | 625 - 631     | -     | 18,5x2,3 | 200          |
| ABRI710 / ABRE710 | 705 - 711     | -     | 18,5x2,3 | 200          |
| ABRI800 / ABRE800 | 799 - 804     | -     | 18,5x2,3 | 200          |
| ABRI900 / ABRE900 | 899 - 904     | -     | 18,5x2,3 | 200          |
| ABRI910 / ABRE910 | 999 - 1.004   | -     | 18,5x2,3 | 200          |
| ABRI911 / ABRE911 | 1.115 - 1.121 | -     | 18,5x2,3 | 200          |
| ABRI912 / ABRE912 | 1.245 - 1.251 | -     | 18,5x2,3 | 200          |

## AB-RI A2 / AB-RI A4 Reinforced isophonic pipe clamp M8 + M10



### AB-RI A2 / AB-RI A4 A2 Stainless steel

| CODE                  | ØD(MM)    | ØD(")  | A X B    | MAXIMUN LOAD |
|-----------------------|-----------|--------|----------|--------------|
| ABRIA2018 / ABRIA4018 | 15 - 18   | 3/8"   | 18,5X1,7 | 150          |
| ABRIA2022 / ABRIA4022 | 20 - 24   | 1/2"   | 18,5X1,7 | 150          |
| ABRIA2028 / ABRIA4028 | 26 - 30   | 3/4"   | 18,5X1,7 | 150          |
| ABRIA2035 / ABRIA4035 | 32 - 36   | 1"     | 18,5X1,7 | 150          |
| ABRIA2040 / ABRIA4040 | 36 - 42   | 1 1/4" | 18,5X1,7 | 150          |
| ABRIA2048 / ABRIA4048 | 47 - 50   | 1 1/2" | 18,5X1,7 | 150          |
| ABRIA2054 / ABRIA4054 | 51 - 55   | -      | 18,5X1,7 | 150          |
| ABRIA2060 / ABRIA4060 | 60 - 64   | 2"     | 18,5X1,7 | 150          |
| ABRIA2075 / ABRIA4075 | 75 - 80   | 2 1/2" | 18,5X1,7 | 150          |
| ABRIA2090 / ABRIA4090 | 87 - 92   | 3"     | 18,5X1,7 | 150          |
| ABRIA2110 / ABRIA4110 | 106 - 112 | -      | 18,5X1,7 | 150          |
| ABRIA2115 / ABRIA4115 | 114 - 119 | 4"     | 18,5X1,7 | 150          |
| ABRIA2125 / ABRIA4125 | 124 - 131 | 4 1/2" | 18,5X1,7 | 150          |
| ABRIA2140 / ABRIA4140 | 133 - 140 | 5"     | 18,5X1,7 | 150          |
| ABRIA2160 / ABRIA4160 | 159 - 163 | 6"     | 18,5X1,7 | 150          |

## AB-RE A2 / AB-RE A4 Reinforced pipe clamp M8 + M10



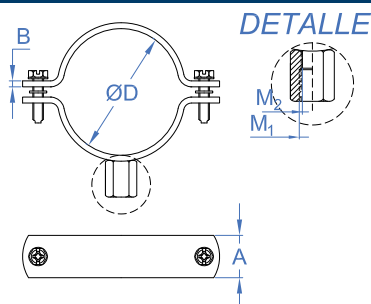
### AB-RE A2 / AB-RE A4 A2 Stainless steel

| CODE                  | ØD(MM)    | ØD(")  | A X B    | MAXIMUN LOAD |
|-----------------------|-----------|--------|----------|--------------|
| ABREA2018 / ABREA4018 | 15 - 18   | 3/8"   | 18,5X1,7 | 150          |
| ABREA2022 / ABREA4022 | 20 - 24   | 1/2"   | 18,5X1,7 | 150          |
| ABREA2028 / ABREA4028 | 26 - 30   | 3/4"   | 18,5X1,7 | 150          |
| ABREA2035 / ABREA4035 | 32 - 36   | 1"     | 18,5X1,7 | 150          |
| ABREA2040 / ABREA4040 | 36 - 42   | 1 1/4" | 18,5X1,7 | 150          |
| ABREA2048 / ABREA4048 | 47 - 50   | 1 1/2" | 18,5X1,7 | 150          |
| ABREA2054 / ABREA4054 | 51 - 55   | -      | 18,5X1,7 | 150          |
| ABREA2060 / ABREA4060 | 60 - 64   | 2"     | 18,5X1,7 | 150          |
| ABREA2075 / ABREA4075 | 75 - 80   | 2 1/2" | 18,5X1,7 | 150          |
| ABREA2090 / ABREA4090 | 87 - 92   | 3"     | 18,5X1,7 | 150          |
| ABREA2110 / ABREA4110 | 106 - 112 | -      | 18,5X1,7 | 150          |
| ABREA2115 / ABREA4115 | 114 - 119 | 4"     | 18,5X1,7 | 150          |
| ABREA2125 / ABREA4125 | 124 - 131 | 4 1/2" | 18,5X1,7 | 150          |
| ABREA2140 / ABREA4140 | 133 - 140 | 5"     | 18,5X1,7 | 150          |
| ABREA2160 / ABREA4160 | 159 - 163 | 6"     | 18,5X1,7 | 150          |
| ABREA2200 / ABREA4200 | 199 - 212 | -      | 18,5X1,7 | 150          |



# AB-GA

Pipe clamp for gas M8 + M10 yellow coated



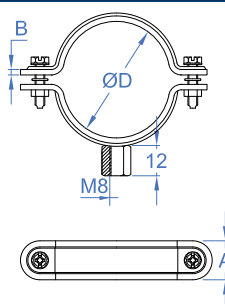
## AB-GA

Yellow coated pipe clamp for gas M8 + M10

| CODE    | ØD(MM)    | ØD(°)  | A X B  | METRIC | MAXIMUN LOAD |
|---------|-----------|--------|--------|--------|--------------|
| ABGA018 | 15 - 18   | 3/8"   | 20 x 2 | M8     | 200          |
| ABGA022 | 20 - 24   | 1/2"   | 20 x 2 | M8     | 200          |
| ABGA028 | 26 - 30   | 3/4"   | 20 x 2 | M8     | 200          |
| ABGA035 | 32 - 36   | 1"     | 20 x 2 | M8     | 200          |
| ABGA040 | 38 - 42   | 1 1/4" | 20 x 2 | M8     | 200          |
| ABGA048 | 47 - 50   | 1 1/2" | 20 x 2 | M8     | 200          |
| ABGA054 | 52 - 56   | -      | 20 x 2 | M8     | 200          |
| ABGA060 | 60 - 64   | 2"     | 20 x 2 | M8/M10 | 200          |
| ABGA075 | 75 - 80   | 2 1/2" | 20 x 2 | M8/M10 | 200          |
| ABGA090 | 85 - 90   | 3"     | 20 x 2 | M8/M10 | 200          |
| ABGA100 | 99 - 105  | 3 1/2" | 20 x 2 | M8/M10 | 200          |
| ABGA110 | 107 - 112 | -      | 20 x 2 | M8/M10 | 200          |
| ABGA115 | 113 - 118 | 4"     | 20 x 2 | M8/M10 | 200          |
| ABGA140 | 138 - 142 | 5"     | 20 x 2 | M8/M10 | 200          |
| ABGA160 | 159 - 166 | 6"     | 20 x 2 | M8/M10 | 200          |

# AB-M8

Drainpipe clamp M8

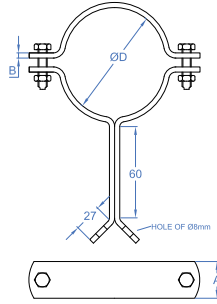


## AB-M8

Drainpipe clamp M8

| CODE    | ØD(MM)    | ØD(°) | A X B    | MAXIMUN LOAD |
|---------|-----------|-------|----------|--------------|
| ABM8050 | 49 - 54   | -     | 28 x 0,8 | 100          |
| ABM8063 | 60 - 65   | -     | 28 x 0,8 | 100          |
| ABM8075 | 75 - 80   | -     | 28 x 0,8 | 100          |
| ABM8090 | 88 - 92   | -     | 28 x 0,8 | 100          |
| ABM8110 | 108 - 113 | -     | 28 x 0,8 | 100          |
| ABM8125 | 124 - 130 | -     | 28 x 0,8 | 100          |
| ABM8160 | 159 - 165 | -     | 28 x 0,8 | 100          |
| ABM8200 | 199 - 203 | -     | 28 x 0,8 | 100          |
| ABM8250 | 249 - 254 | -     | 28 x 0,8 | 100          |
| ABM8315 | 314 - 319 | -     | 28 x 0,8 | 100          |

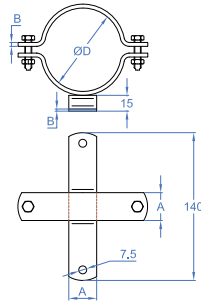
## AB-DE Z / AB-DE G Recessed drainpipe clamp



### AB-DE Z / AB-DE G Zinc-plated

| CODE    | ØD(MM)    | ØD(°)  | A X B    | MAXIMUM LOAD |
|---------|-----------|--------|----------|--------------|
| ABDE075 | 75 - 80   | 2 1/2" | 20 x 2,5 | 200          |
| ABDE090 | 87 - 92   | 3"     | 20 x 2,5 | 200          |
| ABDE110 | 107 - 112 | -      | 20 x 2,5 | 200          |
| ABDE125 | 125 - 130 | 4 1/2" | 20 x 2,5 | 200          |
| ABDE160 | 159 - 166 | 6"     | 20 x 2,5 | 200          |
| ABDE200 | 199 - 212 | -      | 20 x 2,5 | 200          |
| ABDE250 | 245 - 254 | -      | 20 x 2,5 | 200          |
| ABDE315 | 314 - 319 | -      | 20 x 2,5 | 200          |

## AB-DP Z / AB-DP G Drainpipe clamp with hole

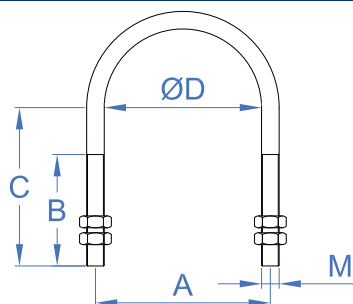


### AB-DP Z / AB-DP G Zinc-plated

| CODE    | ØD(MM)    | ØD(°)  | A X B  | MAXIMUM LOAD |
|---------|-----------|--------|--------|--------------|
| ABDP075 | 75 - 80   | 2 1/2" | 20 x 2 | 200          |
| ABDP090 | 87 - 92   | 3"     | 20 x 2 | 200          |
| ABDP110 | 107 - 112 | -      | 20 x 2 | 200          |
| ABDP125 | 125 - 130 | 4 1/2" | 20 x 2 | 200          |
| ABDP160 | 159 - 166 | 6"     | 20 x 2 | 200          |
| ABDP200 | 199 - 212 | -      | 20 x 2 | 200          |
| ABDP250 | 245 - 254 | -      | 20 x 2 | 200          |

# AB-ZI

U-bolt



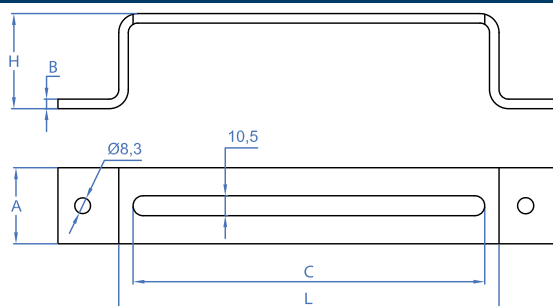
## AB-ZI

Zinc-plated

| CODE       | ØD(")  | METRIC | AXBXC           | MAXIMUM LOAD |
|------------|--------|--------|-----------------|--------------|
| AZIM060250 | 1/4"   | M6     | 20 / 14 / 20    | 250          |
| AZIM060375 | 3/8"   | M6     | 23,5 / 15 / 23  | 250          |
| AZIM060500 | 1/2"   | M6     | 27,5 / 17 / 25  | 250          |
| AZIM060750 | 3/4"   | M6     | 33 / 19 / 31    | 250          |
| AZIM061000 | 1"     | M6     | 39,5 / 24 / 39  | 250          |
| AZIM061250 | 1 1/4" | M6     | 48,5 / 24 / 44  | 250          |
| AZIM081500 | 1 1/2" | M8     | 56,5 / 26 / 48  | 350          |
| AZIM082000 | 2"     | M8     | 68,5 / 26 / 53  | 350          |
| AZIM082250 | 2 1/4" | M8     | 83 / 35 / 63    | 350          |
| AZIM082500 | 2 1/2" | M8     | 83 / 35 / 71    | 350          |
| AZIM083000 | 3"     | M8     | 99 / 35 / 76    | 350          |
| AZIM083500 | 3 1/2" | M8     | 112 / 35 / 82   | 350          |
| AZIM084000 | 4"     | M8     | 125 / 35 / 87   | 350          |
| AZIM084500 | 4 1/2" | M8     | 140 / 40 / 100  | 350          |
| AZIM085000 | 5"     | M8     | 152 / 40 / 105  | 350          |
| AZIM086000 | 6"     | M8     | 179 / 40 / 118  | 350          |
| AZIM103000 | 3"     | M10    | 100 / 45 / 66   | 350          |
| AZIM103500 | 3 1/2" | M10    | 110 / 50 / 94   | 350          |
| AZIM104000 | 4"     | M10    | 125 / 55 / 97,5 | 350          |
| AZIM105000 | 5"     | M10    | 150 / 55 / 108  | 350          |
| AZIM106000 | 6"     | M10    | 170 / 55 / 125  | 350          |
| AZIM108000 | 8"     | M10    | 230 / 55 / 148  | 350          |

# AB-SA

U-bolt support



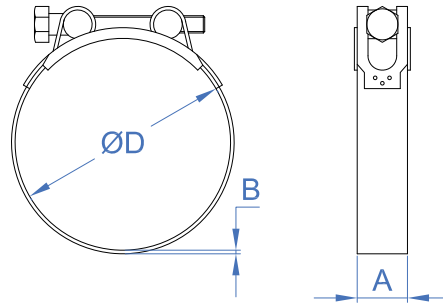
## AB-SA

U-bolt support

| CODE       | L   | H   | AXB    | C   |
|------------|-----|-----|--------|-----|
| ABSA050100 | 100 | 50  | 40 x 5 | 85  |
| ABSA050125 | 125 | 50  | 40 x 5 | 110 |
| ABSA050200 | 200 | 50  | 40 x 5 | 185 |
| ABSA050300 | 300 | 50  | 40 x 5 | 285 |
| ABSA050400 | 400 | 50  | 40 x 5 | 385 |
| ABSA050500 | 500 | 50  | 40 x 5 | 485 |
| ABSA050600 | 600 | 50  | 40 x 5 | 585 |
| ABSA100100 | 100 | 100 | 40 x 5 | 85  |
| ABSA100125 | 125 | 100 | 40 x 5 | 110 |
| ABSA100200 | 200 | 100 | 40 x 5 | 185 |
| ABSA100300 | 300 | 100 | 40 x 5 | 285 |
| ABSA100400 | 400 | 100 | 40 x 5 | 385 |
| ABSA100500 | 500 | 100 | 40 x 6 | 485 |

# AB-GP

Heavy duty pipe clamp



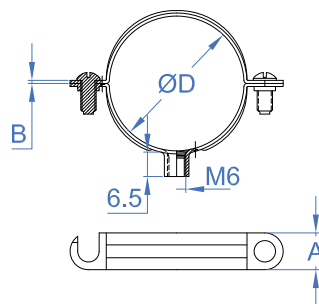
# AB-GP

High pressure clamp

| CODE      | M X L     | ØD(MM)    | A X B    |
|-----------|-----------|-----------|----------|
| AGP023025 | M5 x 35   | 23 - 25   | 18 X 0,6 |
| AGP026028 | M5 x 35   | 26 - 28   | 18 X 0,6 |
| AGP029031 | M5 x 35   | 29 - 31   | 18 X 0,6 |
| AGP032035 | M6 x 50   | 32 - 35   | 20 X 1   |
| AGP036039 | M6 x 50   | 36 - 39   | 20 X 1   |
| AGP040043 | M6 x 50   | 40 - 43   | 20 X 1   |
| AGP044047 | M6 x 50   | 44 - 47   | 20 X 1   |
| AGP048051 | M6 x 50   | 48 - 51   | 20 X 1   |
| AGP052055 | M6 x 50   | 52 - 55   | 20 X 1   |
| AGP056059 | M6 x 55   | 56 - 59   | 20 X 1   |
| AGP060063 | M6 x 55   | 60 - 63   | 20 X 1   |
| AGP064067 | M8 x 70   | 64 - 67   | 25 X 1,5 |
| AGP068073 | M8 x 70   | 68 - 73   | 25 X 1,5 |
| AGP074079 | M8 x 70   | 74 - 79   | 25 X 1,5 |
| AGP080085 | M8 x 70   | 80 - 85   | 25 X 1,5 |
| AGP086091 | M8 x 70   | 86 - 91   | 25 X 1,5 |
| AGP092097 | M8 x 70   | 92 - 97   | 25 X 1,5 |
| AGP098103 | M8 x 70   | 98 - 103  | 25 X 1,5 |
| AGP104112 | M8 x 80   | 104 - 112 | 25 X 1,5 |
| AGP113121 | M8 x 80   | 113 - 121 | 25 X 1,5 |
| AGP122130 | M8 x 80   | 122 - 130 | 25 X 1,5 |
| AGP131139 | M8 x 80   | 131 - 139 | 25 X 1,5 |
| AGP140148 | M8 x 80   | 140 - 148 | 25 X 1,5 |
| AGP149161 | M8 x 80   | 149 - 161 | 25 X 1,8 |
| AGP162174 | M8 x 80   | 162 - 174 | 25 X 1,8 |
| AGP175187 | M10 x 110 | 175-187   | 25 X 1,8 |
| AGP188200 | M10 x 110 | 188-200   | 25 X 1,8 |
| AGP201213 | M10 x 110 | 201-213   | 25 X 1,8 |
| AGP214226 | M10 x 110 | 214-226   | 25 X 1,8 |

# AB-M6

Pipe clamp M6



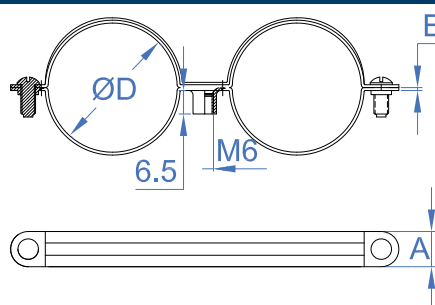
# AB-M6 Z / AB-M6

Zinc-plated

| CODE               | ØD(MM) | ØD(“) | A X B  | MAXIMUM LOAD |
|--------------------|--------|-------|--------|--------------|
| ABM6008 / ABMZ6008 | 8      | -     | 10 x 1 | 70           |
| ABM6010 / ABMZ6010 | 10     | 1/8”  | 10 x 1 | 70           |
| ABM6012 / ABMZ6012 | 12     | -     | 10 x 1 | 70           |
| ABM6014 / ABMZ6014 | 14     | 1/4”  | 10 x 1 | 70           |
| ABM6015 / ABMZ6015 | 15     | -     | 10 x 1 | 70           |
| ABM6016 / ABMZ6016 | 16     | -     | 10 x 1 | 70           |

| CODE               | ØD(MM) | ØD(")  | A X B    | MAXIMUM LOAD |
|--------------------|--------|--------|----------|--------------|
| ABM6018 / ABMZ6018 | 18     | 3/8"   | 10 x 1   | 70           |
| ABM6020 / ABMZ6020 | 20     | -      | 10 x 1   | 70           |
| ABM6022 / ABMZ6022 | 22     | 1/2"   | 10 x 1   | 70           |
| ABM6025 / ABMZ6025 | 25     | -      | 10 x 1   | 70           |
| ABM6026 / ABMZ6026 | 26     | 3/4"   | 10 x 1   | 70           |
| ABM6028 / ABMZ6028 | 28     | -      | 10 x 1   | 70           |
| ABM6032 / ABMZ6032 | 32     | 1"     | 10 x 1   | 70           |
| ABM6035 / ABMZ6035 | 35     | -      | 12 x 1,2 | 70           |
| ABM6037 / ABMZ6037 | 37     | -      | 12 x 1,2 | 100          |
| ABM6040 / ABMZ6040 | 40     | -      | 12 x 1,2 | 100          |
| ABM6042 / ABMZ6042 | 42     | 1 1/4" | 12 x 1,2 | 100          |
| ABM6047 / ABMZ6047 | 47     | 1 1/2" | 12 x 1,2 | 100          |
| ABM6050 / ABMZ6050 | 50     | -      | 12 x 1,2 | 100          |
| ABM6054 / ABMZ6054 | 54     | -      | 12 x 1,2 | 100          |
| ABM6060 / ABMZ6060 | 60     | 2"     | 12 x 1,2 | 100          |
| ABM6063 / ABMZ6063 | 63     | -      | 12 x 1,2 | 100          |

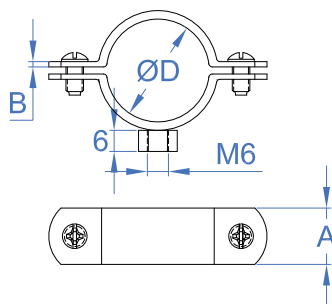
## AB-D6 Double pipe clamp M6



### AB-D6 Z / AB-D6 Zinc-plated

| CODE               | ØD(MM) | ØD(") | A X B    | MAXIMUM LOAD |
|--------------------|--------|-------|----------|--------------|
| ABD6012 / ABDZ6012 | 12     | 1/8"  | 12 x 1   | 100          |
| ABD6015 / ABDZ6015 | 15     | 1/4"  | 12 x 1,2 | 100          |
| ABD6018 / ABDZ6018 | 18     | 3/8"  | 12 x 1,2 | 100          |
| ABD6022 / ABDZ6022 | 22     | 1/2"  | 12 x 1,2 | 100          |
| ABD6028 / ABDZ6028 | 28     | 3/4"  | 12 x 1,2 | 100          |

## AB-M6 A2 Pipe clamp M6

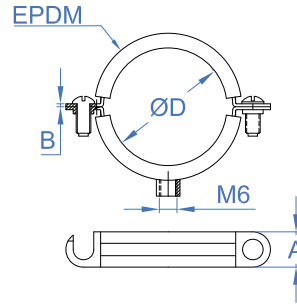


### AB-M6 A2 A2 Stainless steel

| CODE      | ØD(MM)  | ØD(") | A X B    | MAXIMUM LOAD |
|-----------|---------|-------|----------|--------------|
| ABM6A2012 | 12      | 1/4"  | 16 x 1,5 | 70           |
| ABM6A2015 | 14 - 15 | -     | 16 x 1,5 | 70           |
| ABM6A2018 | 16 - 18 | 3/8"  | 16 x 1,5 | 70           |
| ABM6A2020 | 19 - 21 | 1/2"  | 16 x 1,5 | 70           |
| ABM6A2022 | 22 - 24 | -     | 16 x 1,5 | 70           |
| ABM6A2028 | 25 - 30 | 3/4"  | 16 x 1,5 | 70           |

# AB-6I

Isophonic pipe clamp M6



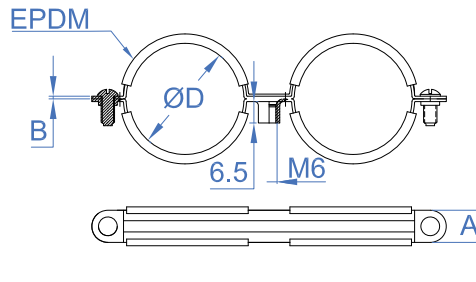
## AB-6I

Isophonic pipe clamp M6

| CODE    | ØD(MM) | ØD(ʹ)  | A X B    | MAXIMUM LOAD |
|---------|--------|--------|----------|--------------|
| AB6I012 | 12     | 1/8"   | 15 x 1,2 | 70           |
| AB6I015 | 15     | 1/4"   | 15 x 1,2 | 70           |
| AB6I016 | 16     | -      | 15 x 1,2 | 70           |
| AB6I018 | 18     | 3/8"   | 15 x 1,2 | 70           |
| AB6I022 | 22     | 1/2"   | 15 x 1,2 | 70           |
| AB6I026 | 26     | -      | 15 x 1,2 | 70           |
| AB6I028 | 28     | 3/4"   | 15 x 1,2 | 70           |
| AB6I032 | 32     | -      | 15 x 1,2 | 70           |
| AB6I035 | 35     | 1"     | 15 x 1,2 | 70           |
| AB6I042 | 42     | 1 1/4" | 15 x 1,2 | 100          |
| AB6I048 | 48     | 1 1/2" | 15 x 1,2 | 100          |
| AB6I054 | 54     | -      | 15 x 1,2 | 100          |
| AB6I060 | 60     | 2"     | 15 x 1,2 | 100          |

# AB-DI

Double isophonic pipe clamp M6



## AB-DI

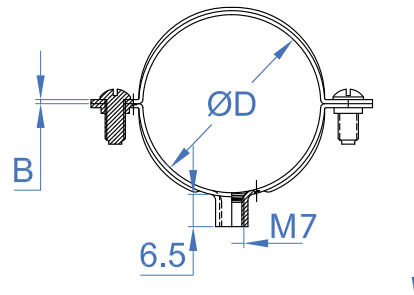
Double isophonic pipe clamp M6

| CODE     | ØD(MM) | ØD(ʹ) | A X B    | MAXIMUM LOAD |
|----------|--------|-------|----------|--------------|
| ABDI0012 | 12     | 1/8"  | 15 x 1   | 100          |
| ABDI0015 | 15     | 1/4"  | 15 x 1,2 | 100          |
| ABDI0018 | 18     | 3/8"  | 15 x 1,2 | 100          |
| ABDI0022 | 22     | 1/2"  | 15 x 1,2 | 100          |
| ABDI0028 | 28     | 3/4"  | 15 x 1,2 | 100          |



# AB-M7

Pipe clamp M6

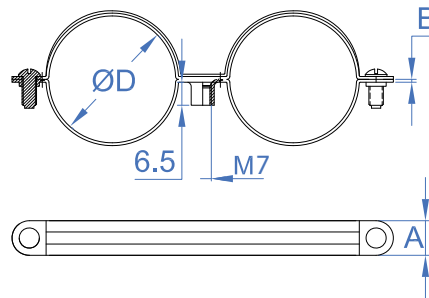


## AB-M7 Zinc-plated

| CODE     | ØD(MM) | ØD(") | A X B    | MAXIMUM LOAD |
|----------|--------|-------|----------|--------------|
| ABMZ7008 | 8      | -     | 11 X 1   | -            |
| ABMZ7010 | 10     | 1/8"  | 11 X 1   | -            |
| ABMZ7012 | 12     | -     | 11 X 1   | -            |
| ABMZ7014 | 14     | 1/4"  | 11 X 1   | -            |
| ABMZ7016 | 16     | -     | 11 X 1   | -            |
| ABMZ7018 | 18     | 3/8"  | 11 X 1   | -            |
| ABMZ7020 | 20     | -     | 11 X 1   | -            |
| ABMZ7022 | 22     | 1/2"  | 11 X 1   | -            |
| ABMZ7024 | 24     | -     | 11 X 1   | -            |
| ABMZ7025 | 25     | -     | 11 X 1   | -            |
| ABMZ7026 | 26     | 3/4"  | 11 X 1   | -            |
| ABMZ7028 | 28     | -     | 11 X 1   | -            |
| ABMZ7032 | 32     | 1"    | 11 X 1   | -            |
| ABMZ7034 | 34     | -     | 11 X 1   | -            |
| ABMZ7036 | 36     | -     | 11 X 1   | -            |
| ABMZ7038 | 38     | -     | 11 X 1   | -            |
| ABMZ7040 | 40     | -     | 11 X 1   | -            |
| ABMZ7050 | 50     | -     | 11 X 1   | -            |
| ABMZ7063 | 63     | -     | 12 X 1,2 | -            |

# AB-D7

Double pipe clamp M6

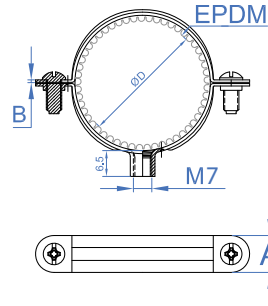


## AB-D7 Zinc-plated

| CODE      | ØD(MM) | ØD(") | A X B  | MAXIMUM LOAD |
|-----------|--------|-------|--------|--------------|
| ABDZ70810 | 8-10   | -     | 11 X 1 | -            |
| ABDZ71012 | 10-12  | 1/8"  | 11 X 1 | -            |
| ABDZ71214 | 12-14  | -     | 11 X 1 | -            |
| ABDZ71416 | 14-16  | -     | 11 X 1 | -            |
| ABDZ71618 | 16-18  | 3/8"  | 11 X 1 | -            |
| ABDZ71820 | 18-20  | -     | 11 X 1 | -            |
| ABDZ72022 | 20-22  | 1/2"  | 11 X 1 | -            |
| ABDZ72224 | 22-24  | -     | 11 X 1 | -            |
| ABDZ72628 | 26-28  | 3/4"  | 11 X 1 | -            |

# AB-7I

Isophonic pipe clamp M6



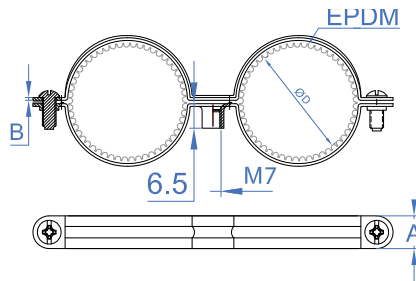
## AB-7I

Isophonic pipe clamp M6

| CODE     | $\varnothing D$ (MM) | $\varnothing D$ (") | A X B    | MAXIMUM LOAD |
|----------|----------------------|---------------------|----------|--------------|
| AB7IZ010 | 10                   | -                   | 11 X 1   | -            |
| AB7IZ012 | 12                   | -                   | 11 X 1   | -            |
| AB7IZ014 | 14                   | -                   | 11 X 1   | -            |
| AB7IZ016 | 16                   | -                   | 11 X 1   | -            |
| AB7IZ018 | 18                   | -                   | 11 X 1   | -            |
| AB7IZ020 | 20                   | -                   | 11 X 1   | -            |
| AB7IZ022 | 22                   | -                   | 11 X 1   | -            |
| AB7IZ024 | 24                   | -                   | 11 X 1   | -            |
| AB7IZ026 | 26                   | -                   | 11 X 1   | -            |
| AB7IZ028 | 28                   | -                   | 11 X 1   | -            |
| AB7IZ032 | 32                   | -                   | 11 X 1   | -            |
| AB7IZ034 | 34                   | -                   | 11 X 1   | -            |
| AB7IZ036 | 36                   | -                   | 12 X 1   | -            |
| AB7IZ038 | 38                   | -                   | 12 X 1   | -            |
| AB7IZ040 | 40                   | -                   | 12 X 1   | -            |
| AB7IZ050 | 50                   | -                   | 12 X 1,2 | -            |

# AB-7ID

Double isophonic pipe clamp M6



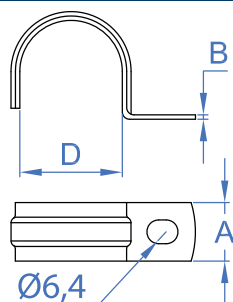
## AB-7ID

Double isophonic pipe clamp M6

| CODE       | $\varnothing D$ (MM) | $\varnothing D$ (") | A X B  | MAXIMUM LOAD |
|------------|----------------------|---------------------|--------|--------------|
| AB7IDZ0810 | 08-10                | 1/8"                | 11 X 1 | -            |
| AB7IDZ1012 | 10-12                | 1/8"                | 11 X 1 | -            |
| AB7IDZ1214 | 12-14                | 1/4"                | 11 X 1 | -            |
| AB7IDZ1416 | 14-16                | 1/4"                | 11 X 1 | -            |
| AB7IDZ1618 | 16-18                | 3/8"                | 11 X 1 | -            |
| AB7IDZ1820 | 18-20                | 3/8"                | 11 X 1 | -            |
| AB7IDZ2022 | 20-22                | 1/2"                | 11 X 1 | -            |
| AB7IDZ2224 | 22-24                | 1/2"                | 11 X 1 | -            |
| AB7IDZ2628 | 26-28                | 3/4"                | 11 X 1 | -            |

# AB-PI

## Conduit clip with single hole



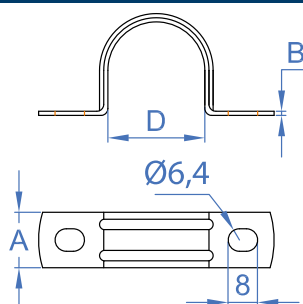
# AB-PI

## Conduit clip, with single hole

| CODE    | ØD(MM) | ØD(°)  | A X B    | MAXIMUM LOAD |
|---------|--------|--------|----------|--------------|
| ABPI006 | 6      | -      | 12 x 1   | 30           |
| ABPI008 | 8      | -      | 12 x 1   | 30           |
| ABPI010 | 10     | 1/8"   | 12 x 1   | 30           |
| ABPI012 | 12     | -      | 12 x 1   | 30           |
| ABPI014 | 14     | 1/4"   | 15 x 1   | 30           |
| ABPI016 | 16     | -      | 15 x 1   | 30           |
| ABPI018 | 18     | 3/8"   | 15 x 1   | 30           |
| ABPI020 | 20     | -      | 15 x 1   | 30           |
| ABPI022 | 22     | 1/2"   | 15 x 1,2 | 30           |
| ABPI025 | 25     | -      | 15 x 1,2 | 30           |
| ABPI026 | 26     | 3/4"   | 15 x 1,2 | 30           |
| ABPI028 | 28     | -      | 15 x 1,2 | 30           |
| ABPI032 | 32     | 1"     | 15 x 1,2 | 30           |
| ABPI040 | 40     | -      | 15 x 1,2 | 30           |
| ABPI042 | 42     | 1 1/4" | 15 x 1,2 | 30           |
| ABPI047 | 47     | 1 1/2" | 15 x 1,2 | 30           |
| ABPI050 | 50     | -      | 15 x 1,2 | 30           |
| ABPI063 | 63     | 2"     | 15 x 1,2 | 30           |

# AB-PU

## Bridge conduit clip with double hole



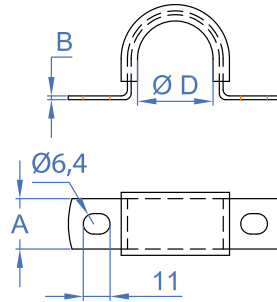
# AB-PU

## Bridge conduit clip, with double hole

| CODE    | ØD(MM) | ØD(°)  | A X B    | MAXIMUM LOAD |
|---------|--------|--------|----------|--------------|
| ABPU016 | 16     | -      | 12 x 1,2 | 75           |
| ABPU018 | 18     | 3/8"   | 12 x 1,2 | 75           |
| ABPU020 | 20     | -      | 12 x 1,2 | 75           |
| ABPU022 | 22     | 1/2"   | 15 x 1,2 | 75           |
| ABPU025 | 25     | -      | 15 x 1,2 | 75           |
| ABPU028 | 28     | 3/4"   | 15 x 1,2 | 75           |
| ABPU032 | 32     | 1"     | 15 x 1,2 | 75           |
| ABPU037 | 37     | -      | 18 x 1,2 | 75           |
| ABPU040 | 40     | 1 1/4" | 18 x 1,2 | 75           |
| ABPU050 | 50     | 1 1/2" | 18 x 1,2 | 75           |
| ABPU063 | 63     | 2"     | 18 x 1,2 | 75           |

# AB-IP

Isophonic bridge conduit clip



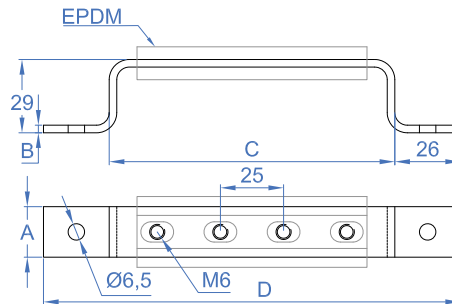
## AB-IP

Pipe clip for fixing plate

| CODE    | ØD(MM) | ØD(")  | A X B    |
|---------|--------|--------|----------|
| ABIP015 | 15     | 1/4"   | 20 x 1,5 |
| ABIP018 | 18     | 3/8"   | 20 x 1,5 |
| ABIP022 | 22     | 1/2"   | 20 x 1,5 |
| ABIP026 | 26     | 3/4"   | 20 x 1,5 |
| ABIP028 | 28     | -      | 20 x 1,5 |
| ABIP035 | 35     | 1"     | 20 x 1,5 |
| ABIP042 | 42     | 1 1/4" | 20 x 1,5 |
| ABIP048 | 48     | 1 1/2" | 20 x 1,5 |
| ABIP054 | 54     | -      | 20 x 1,5 |
| ABIP060 | 60     | 2"     | 20 x 1,5 |
| ABIP067 | 67     | -      | 20 x 1,5 |
| ABIP075 | 75     | 2 1/2" | 20 x 1,5 |
| ABIP090 | 90     | 3"     | 20 x 1,5 |

# AB-SI

Fixing plate for Isophonic bridge conduit clip



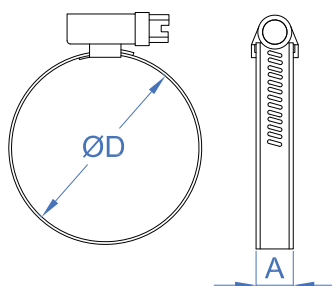
## AB-SI

Fixing plate for Isophonic bridge conduit clip

| CODE    | A X B  | C   | D   | HOLE NUM |
|---------|--------|-----|-----|----------|
| ABSI003 | 20 x 3 | 88  | 140 | 3        |
| ABSI004 | 20 x 3 | 113 | 165 | 4        |
| ABSI005 | 20 x 3 | 138 | 190 | 5        |
| ABSI006 | 20 x 3 | 163 | 215 | 6        |
| ABSI007 | 20 x 3 | 188 | 240 | 7        |
| ABSI008 | 20 x 3 | 213 | 265 | 8        |
| ABSI009 | 20 x 3 | 238 | 290 | 9        |
| ABSI010 | 20 x 3 | 263 | 315 | 10       |
| ABSI011 | 20 x 3 | 288 | 340 | 11       |
| ABSI012 | 20 x 3 | 313 | 365 | 12       |
| ABSI013 | 20 x 3 | 338 | 390 | 13       |
| ABSI014 | 20 x 3 | 363 | 415 | 14       |
| ABSI015 | 20 x 3 | 388 | 440 | 15       |
| ABSI016 | 20 x 3 | 413 | 465 | 16       |
| ABSI017 | 20 x 3 | 438 | 490 | 17       |
| ABSI018 | 20 x 3 | 463 | 515 | 18       |
| ABSI019 | 20 x 3 | 488 | 540 | 19       |
| ABSI020 | 20 x 3 | 513 | 565 | 20       |
| ABSI021 | 20 x 3 | 538 | 590 | 21       |
| ABSI022 | 20 x 3 | 563 | 615 | 22       |
| ABSI025 | 20 x 3 | 638 | 690 | 25       |

# AB-SF

Hose clamp



## AB-SF

Zinc-plated

| CODE      | ØD(MM)    | ØD(")            | AXB     | TORQUE (NM) |
|-----------|-----------|------------------|---------|-------------|
| ASF008016 | 8-16      | 5/16" - 5/8"     | 9 x 0,7 | 4,5         |
| ASF012022 | 12-22     | 1/2" - 7/8"      | 9 x 0,7 | 4,5         |
| ASF016027 | 16 - 27   | 5/8" - 1 1/16"   | 9 x 0,7 | 4,5         |
| ASF020032 | 20 - 32   | 3/4" - 1 1/4"    | 9 x 0,7 | 4,5         |
| ASF025040 | 25 - 40   | 1" - 1 5/8"      | 9 x 0,7 | 4,5         |
| ASF030045 | 30 - 45   | 1 3/16" - 1 3/4" | 9 x 0,8 | 4,5         |
| ASF035050 | 35 - 50   | 1 3/8" - 2"      | 9 x 0,8 | 4,5         |
| ASF040060 | 40 - 60   | 1 5/8" - 2 3/8"  | 9 x 0,8 | 4,5         |
| ASF050070 | 50 - 70   | 2" - 2 3/4"      | 9 x 0,8 | 4,5         |
| ASF060080 | 60 - 80   | 2 3/8" - 3 1/8"  | 9 x 0,8 | 4,5         |
| ASF070090 | 70 - 90   | 2 3/4" - 3 1/2"  | 9 x 0,8 | 4,5         |
| ASF080100 | 80 - 100  | 3 1/8" - 4"      | 9 x 0,8 | 4,5         |
| ASF090110 | 90 - 110  | 3 1/2" - 4 3/8"  | 9 x 0,8 | 4,5         |
| ASF100120 | 100 - 120 | 4" - 4 3/4"      | 9 x 0,8 | 4,5         |
| ASF110130 | 110 - 130 | 4 3/8" - 5 1/8"  | 9 x 0,8 | 4,5         |
| ASF120140 | 120 - 140 | 4 3/4" - 5 1/2"  | 9 x 0,8 | 4,5         |
| ASF130150 | 130 - 150 | 5 1/8" - 5 7/8"  | 9 x 0,8 | 4,5         |

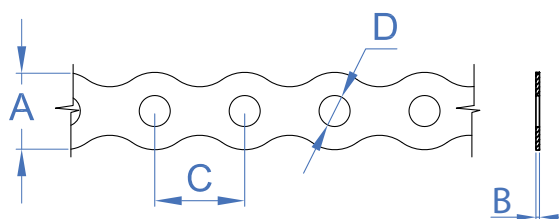
## AB-SF A2

A2 Stainless steel

| CODE       | ØD(MM)    | ØD(")           | AXB     | TORQUE (NM) |
|------------|-----------|-----------------|---------|-------------|
| ASF2010016 | 10-16     | 5/16" - 5/8"    | 9 x 0,7 | 4           |
| ASF2012020 | 12-20     | 1/2" - 7/8"     | 9 x 0,7 | 4           |
| ASF2016027 | 16 - 27   | 5/8" - 1 1/16"  | 9 x 0,7 | 4           |
| ASF2020032 | 20 - 32   | 3/4" - 1 1/4"   | 9 x 0,7 | 4           |
| ASF2025040 | 25 - 40   | 1" - 1 5/8"     | 9 x 0,7 | 4           |
| ASF2032050 | 32 - 50   | 1 3/8" - 2"     | 9 x 0,7 | 4           |
| ASF2040060 | 40 - 60   | 1 5/8" - 2 3/8" | 9 x 0,7 | 4           |
| ASF2050070 | 50 - 70   | 2" - 2 3/4"     | 9 x 0,7 | 4           |
| ASF2060080 | 60 - 80   | 2 3/8" - 3 1/8" | 9 x 0,7 | 4           |
| ASF2070090 | 70 - 90   | 2 3/4" - 3 1/2" | 9 x 0,7 | 4           |
| ASF2080100 | 80 - 100  | 3 1/8" - 4"     | 9 x 0,7 | 4           |
| ASF2090110 | 90 - 110  | 3 1/2" - 4 3/8" | 9 x 0,7 | 4           |
| ASF2100120 | 100 - 120 | 4" - 4 3/4"     | 9 x 0,7 | 4           |
| ASF2110130 | 110 - 130 | 4 3/8" - 5 1/8" | 9 x 0,7 | 4           |
| ASF2120140 | 120 - 140 | 4 3/4" - 5 1/2" | 9 x 0,7 | 4           |
| ASF2130150 | 130 - 150 | 5 1/8" - 5 7/8" | 9 x 0,7 | 4           |

# CI-PE

Fixing band



## CI-PE

Round fixing band ATLANTIS C2-M

| CODE     | AXB      | c  | D |
|----------|----------|----|---|
| CIPE1208 | 12 x 0,8 | 14 | 5 |
| CIPE1708 | 17 x 0,8 | 20 | 7 |

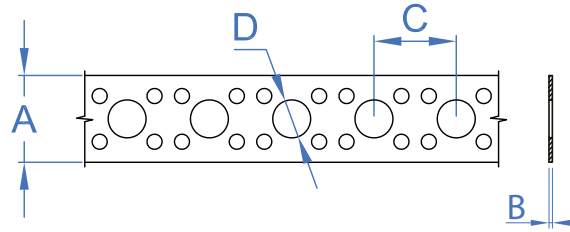
## CI-PE A2

Round fixing band. A2 Stainless steel

| CODE       | AXB      | c  | D |
|------------|----------|----|---|
| CIPEA21708 | 17 x 0,8 | 20 | 7 |

# CI-PR

Straight fixing band ATLANTIS C2-M



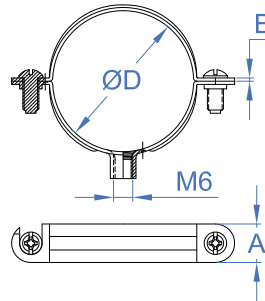
## CI-PR

Straight fixing band ATLANTIS C2-M

| CODE     | A X B    | c  | D   |
|----------|----------|----|-----|
| CIPR1908 | 19 x 0,8 | 18 | 8,3 |
| CIPR1208 | 12 x 0,8 | 12 | 6,2 |

# AB-CR

Chromed pipe clamp M6



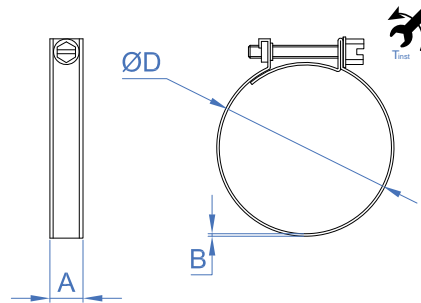
## AB-CR

Chrome coated pipe clamp M6

| CODE    | ØD(MM) | ØD(°) | A X B    | MAXIMUM LOAD |
|---------|--------|-------|----------|--------------|
| ABCR010 | 10     | 1/8"  | 12 x 1,2 | 70           |
| ABCR012 | 12     | 1/4"  | 12 x 1,2 | 70           |

# AB-BU

Butane clamp



## AB-BU

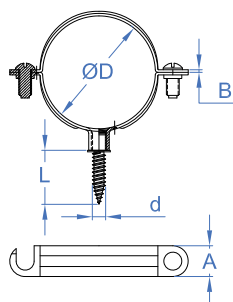
Butane clamp

| CODE     | ØD(MM) | ØD(°)         | A X B   | TORQUE (NM) |
|----------|--------|---------------|---------|-------------|
| ABBU1315 | 13-15  | 1/2" - 9/16"  | 9 x 0,6 | 2           |
| ABBU1618 | 16-18  | 5/8" - 11/16" | 9 x 0,6 | 2           |
| ABBU1921 | 19-21  | 3/4" - 13/16" | 9 x 0,6 | 2           |



# AB-GM

Pipe clamp for gas yellow coated with chipboard screw



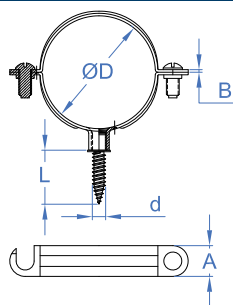
## AB-GM

Yellow coated pipe clamp for gas with screw

| CODE    | ØD(MM) | ØD(°) | A X B    | MAXIMUM LOAD |
|---------|--------|-------|----------|--------------|
| ABGM012 | 12     | 1/8"  | 12 x 1,2 | 70           |
| ABGM015 | 15     | 1/4"  | 12 x 1,2 | 70           |
| ABGM018 | 18     | 3/8"  | 12 x 1,2 | 70           |
| ABGM022 | 22     | 1/2"  | 12 x 1,2 | 70           |
| ABGM028 | 28     | 3/4"  | 12 x 1,2 | 70           |
| ABGM035 | 35     | 1"    | 12 x 1,2 | 70           |

# AB-GS

Pipe clamp for gas black coated M6 with chipboard screw



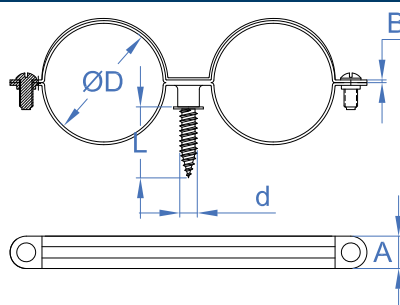
## AB-GS

Black coated pipe clamp for gas M6 with screw

| CODE    | ØD(MM) | ØD(°)  | A X B    | MAXIMUM LOAD |
|---------|--------|--------|----------|--------------|
| ABGS010 | 10     | 1/8"   | 12 x 1,2 | 70           |
| ABGS012 | 12     | -      | 12 x 1,2 | 70           |
| ABGS015 | 15     | 1/4"   | 12 x 1,2 | 70           |
| ABGS018 | 18     | 3/8"   | 12 x 1,2 | 70           |
| ABGS022 | 22     | 1/2"   | 12 x 1,2 | 70           |
| ABGS028 | 28     | 3/4"   | 12 x 1,2 | 70           |
| ABGS035 | 35     | 1"     | 12 x 1,2 | 70           |
| ABGS042 | 42     | 1 1/4" | 12 x 1,2 | 70           |
| ABGS054 | 54     | -      | 12 x 1,2 | 70           |

# AB-GD

Double pipe clamp for gas black coated M6 with chipboard screw



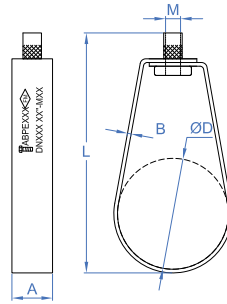
## AB-GD

Double black coated pipe clamp for gas M6 with screw

| CODE    | ØD(MM) | ØD(°) | A X B    | MAXIMUM LOAD |
|---------|--------|-------|----------|--------------|
| ABGD012 | 12     | 1/8"  | 12 x 1,2 | 100          |
| ABGD015 | 15     | 1/4"  | 12 x 1,2 | 100          |
| ABGD018 | 18     | 3/8"  | 12 x 1,2 | 100          |
| ABGD022 | 22     | 1/2"  | 12 x 1,2 | 100          |
| ABGD028 | 28     | 3/4"  | 12 x 1,2 | 100          |

# AB-PE

Sprinkler pipe clamp



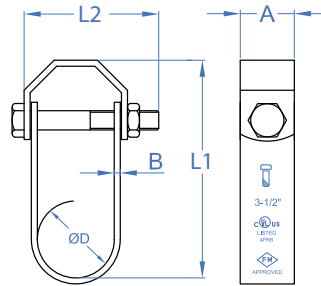
## AB-PE

Sprinkler pipe clamp

| CODE    | ØD(MM) | ØD(")  | A X B    | LENGTH | SCREW SIZE | MAXIMUM LOAD |
|---------|--------|--------|----------|--------|------------|--------------|
| ABPE028 | DN 20  | 3/4"   | 21 x 1   | 72     | M10 (3/8") | 154          |
| ABPE035 | DN 25  | 1"     | 21 x 1   | 78     | M10 (3/8") | 186          |
| ABPE040 | DN 32  | 1 1/4" | 21 x 1   | 88     | M10 (3/8") | 195          |
| ABPE048 | DN 40  | 1 1/2" | 21 x 1,2 | 95     | M10 (3/8") | 236          |
| ABPE060 | DN 50  | 2"     | 21 x 1,2 | 105    | M10 (3/8") | 288          |
| ABPE075 | DN 65  | 2 1/2" | 21 x 1,2 | 125    | M10 (3/8") | 426          |
| ABPE090 | DN 80  | 3"     | 21 x 1,2 | 140    | M10 (3/8") | 481          |
| ABPE100 | DN 90  | 3 1/2" | 21 x 1,2 | 160    | M10 (3/8") | 569          |
| ABPE115 | DN 100 | 4"     | 21 x 2   | 173    | M10 (3/8") | 669          |
| ABPE140 | DN 125 | 5"     | 30 x 2   | 209    | M12 (1/2") | 907          |
| ABPE160 | DN 150 | 6"     | 30 x 2,5 | 249    | M12 (1/2") | 1186         |
| ABPE220 | DN 200 | 8"     | 35 x 2,5 | 309    | M12 (1/2") | 1723         |

# AB-CH

Drainpipe clamp M8



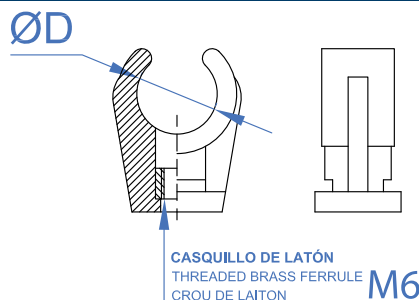
## AB-CH

Drainpipe clamp M8

| CODE      | ØD(MM) | ØD(")  | A X B      | L1   | L2  | MAXIMUM LOAD |
|-----------|--------|--------|------------|------|-----|--------------|
| ABCH00034 | 28     | 3/4"   | 22,5 x 2,5 | 82,5 | 50  | -            |
| ABCH01000 | 35     | 1"     | 22,5 x 2,5 | 99   | 57  | -            |
| ABCH01014 | 42     | 1 1/4" | 22,5 x 2,5 | 106  | 70  | -            |
| ABCH01012 | 48     | 1 1/2" | 22,5 x 2,5 | 107  | 75  | -            |
| ABCH02000 | 60     | 2"     | 25,5 x 2,5 | 126  | 90  | -            |
| ABCH02012 | 75     | 2 1/2" | 26,0 x 3,0 | 156  | 110 | -            |
| ABCH03000 | 90     | 3"     | 26,0 x 3,0 | 169  | 115 | -            |
| ABCH04000 | 115    | 4"     | 30,0 x 4,0 | 200  | 15  | -            |
| ABCH05000 | 140    | 5"     | 32,0 x 4,5 | 231  | 200 | -            |
| ABCH06000 | 160    | 6"     | 36,5 x 4,5 | 260  | 225 | -            |
| ABCH08000 | 220    | 8"     | 42,5 x 4,5 | 329  | 280 | -            |
| ABCH10000 | 275    | 10"    | 44,5 x 6,0 | 381  | 360 | -            |
| ABCH12000 | 325    | 12"    | 50,0 x 6,0 | 457  | 410 | -            |
| ABCH14000 | 355    | 14"    | 50,0 x 6,0 | 514  | 465 | -            |
| ABCH16000 | 405    | 16"    | 64,0 x 6,0 | 560  | 520 | -            |

# AB-IN

Simple polypropylene pipe clip with M6 threaded brass insert



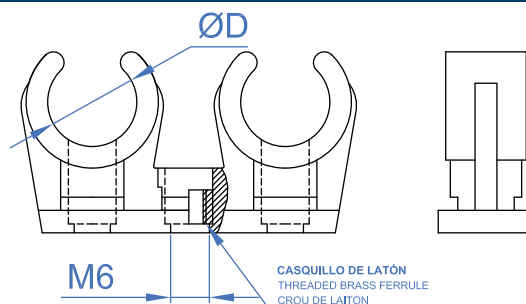
# AB-IN

Simple polypropylene pipe clip with M6 threaded brass insert

| CODE    | ØD(MM) | ØD(") | SUITABLE FOR | MAXIMUM LOAD |
|---------|--------|-------|--------------|--------------|
| ABIN012 | 12     | 1/4"  | Carril 20/10 | -            |
| ABIN014 | 14-15  | 3/8"  | Carril 20/10 | -            |
| ABIN016 | 16-18  | -     | Carril 20/10 | -            |
| ABIN020 | 20-22  | -     | Carril 20/10 | -            |
| ABIN025 | 25     | -     | Carril 20/10 | -            |
| ABIN028 | 28     | 3/4"  | Carril 20/10 | -            |
| ABIN032 | 32     | -     | Carril 20/10 | -            |
| ABIN035 | 35     | -     | Carril 20/10 | -            |

# AB-ID

Double nylon pipe clip (polyamide 6.6) with M6 threaded brass insert



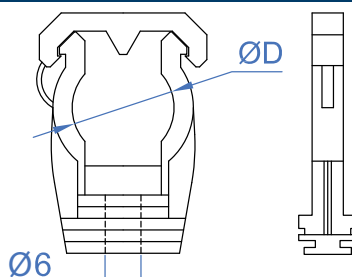
# AB-ID

Double nylon pipe clip (polyamide 6.6), with M6 threaded brass insert

| CODE    | ØD(MM) | ØD(") | SUITABLE FOR | MAXIMUM LOAD |
|---------|--------|-------|--------------|--------------|
| ABID012 | 12     | 1/4"  | Carril 20/10 | -            |
| ABID014 | 14-15  | 3/8"  | Carril 20/10 | -            |
| ABID016 | 16-18  | -     | Carril 20/10 | -            |
| ABID020 | 20-22  | -     | Carril 20/10 | -            |
| ABID028 | 28     | 3/4"  | Carril 20/10 | -            |

# AB-GU

Closed polypropilene pipe clip with pre-thread M6



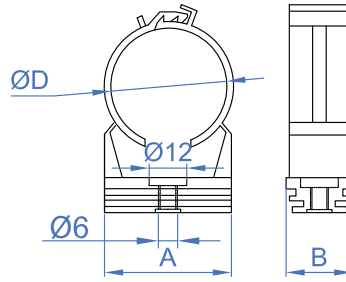
# AB-GU

Closed polypropilene pipe clip, with pre-thread M6. Grey

| CODE    | ØD(MM) | ØD(") | SUITABLE FOR      | MAXIMUM LOAD |
|---------|--------|-------|-------------------|--------------|
| ABGUG12 | 12     | 1/4"  | 20/10 27/18 28/30 | -            |
| ABGUG15 | 15     | 3/8"  | 20/10 27/18 28/30 | -            |
| ABGUG18 | 18     | -     | 20/10 27/18 28/30 | -            |
| ABGUG20 | 20     | -     | 20/10 27/18 28/30 | -            |
| ABGUG22 | 22     | 1/2"  | 20/10 27/18 28/30 | -            |
| ABGUG25 | 25     | -     | 20/10 27/18 28/30 | -            |
| ABGUG28 | 28     | -     | 20/10 27/18 28/30 | -            |
| ABGUG32 | 32     | 1"    | 20/10 27/18 28/30 | -            |
| ABGUG40 | 40     | -     | 20/10 27/18 28/30 | -            |
| ABGUG50 | 50     | -     | 20/10 27/18 28/30 | -            |

# AB-MUG

Multiuse pipe clamp



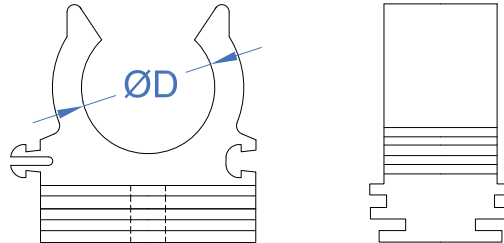
## AB-MUG

Multiuse pipe clip

| CODE    | ØD(MM) | Ød(*) | A X B   | SUITABLE FOR      | MAXIMUM LOAD |
|---------|--------|-------|---------|-------------------|--------------|
| ABMUG12 | 12     | -     | 17 x 20 | 20/10 27/18 28/30 | -            |
| ABMUG15 | 15     | -     | 21 x 20 | 20/10 27/18 28/30 | -            |
| ABMUG18 | 18     | -     | 25 x 20 | 20/10 27/18 28/30 | -            |
| ABMUG22 | 22     | -     | 30 x 20 | 20/10 27/18 28/30 | -            |
| ABMUG26 | 26     | -     | 33 x 20 | 20/10 27/18 28/30 | -            |
| ABMUG32 | 32     | -     | 38 x 20 | 20/10 27/18 28/30 | -            |
| ABMUG40 | 40     | -     | 46 x 20 | 20/10 27/18 28/30 | -            |
| ABMUG48 | 42     | -     | 56 x 20 | 20/10 27/18 28/30 | -            |

# AB-PR

Duty pipe clamp with pre-thread M6



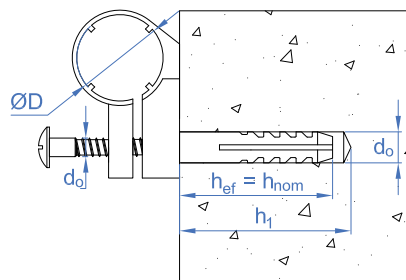
## AB-PR

Grey

| CODE    | ØD(MM) | Ød(*) | SUITABLE FOR      | MAXIMUM LOAD |
|---------|--------|-------|-------------------|--------------|
| ABPRG12 | 12     | 1/4"  | 20/10 27/18 28/30 | -            |
| ABPRG15 | 15-18  | 3/8"  | 20/10 27/18 28/30 | -            |
| ABPRG20 | 20-22  | -     | 20/10 27/18 28/30 | -            |
| ABPRG25 | 25-28  | 1/2"  | 20/10 27/18 28/30 | -            |
| ABPRG32 | 32-35  | -     | 20/10 27/18 28/30 | -            |
| ABPRG40 | 40     | -     | 20/10 27/18 28/30 | -            |
| ABPRG50 | 50     | 3/4"  | 20/10 27/18 28/30 | -            |

# AB-MS

Multitube clamp + plug. Single



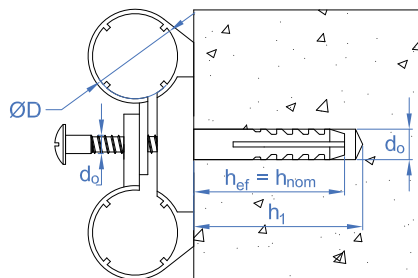
## AB-MS

Multitube clamp + plug. Single

| CODE   | ØD(MM) | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD HOLLOW BRICK | SCREW SIZE |
|--------|--------|---------|-----------------|-------------------|-----------------------------------|---------------------------|------------|
| ABMS10 | 10     | 5       | 30              | 20                | 9                                 | 5                         | 3,5x35     |
| ABMS12 | 12     | 5       | 30              | 20                | 9                                 | 5                         | 3,5x35     |
| ABMS14 | 14     | 6       | 35              | 25                | 15                                | 8                         | 4x45       |
| ABMS16 | 16     | 6       | 35              | 25                | 15                                | 8                         | 4x45       |
| ABMS18 | 18     | 8       | 45              | 30                | 16                                | 12                        | 4,5x50     |
| ABMS20 | 20     | 8       | 45              | 30                | 16                                | 12                        | 4,5x50     |
| ABMS22 | 22     | 8       | 45              | 30                | 16                                | 12                        | 4,5x50     |
| ABMS26 | 26     | 10      | 50              | 40                | 30                                | 15                        | 6x60       |
| ABMS28 | 28     | 10      | 50              | 40                | 30                                | 15                        | 6,5x60     |

# AB-MD

Multitube clamp + plug. Double



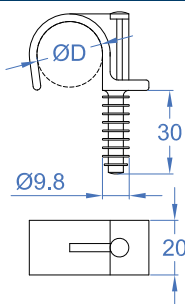
## AB-MD

Multitube clamp + plug. Double

| CODE   | ØD(MM) | DRILL Ø | HOLE DEPTH MIN. | MIN. ANCHOR DEPTH | TENSION LOAD NON-CRACKED CONCRETE | TENSION LOAD HOLLOW BRICK | SCREW SIZE |
|--------|--------|---------|-----------------|-------------------|-----------------------------------|---------------------------|------------|
| ABMD10 | 10     | 8       | 60              | 30                | 16                                | 12                        | 4,5x50     |
| ABMD12 | 12     | 8       | 60              | 30                | 16                                | 12                        | 4,5x50     |
| ABMD14 | 14     | 8       | 60              | 30                | 16                                | 12                        | 4,5x50     |
| ABMD16 | 16     | 8       | 60              | 30                | 16                                | 12                        | 4,5x50     |
| ABMD18 | 18     | 10      | 70              | 40                | 30                                | 15                        | 6x60       |
| ABMD20 | 20     | 10      | 70              | 40                | 30                                | 15                        | 6x60       |
| ABMD22 | 22     | 10      | 70              | 40                | 30                                | 15                        | 6x60       |
| ABMD26 | 26     | 10      | 70              | 40                | 30                                | 15                        | 6x60       |
| ABMD28 | 28     | 10      | 70              | 40                | 30                                | 15                        | 6x60       |

# AB-T

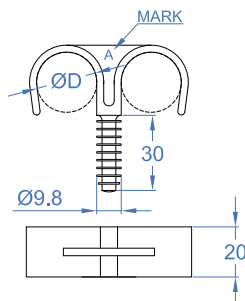
INDEXring tube fixing plug



## AB-TS

Simple

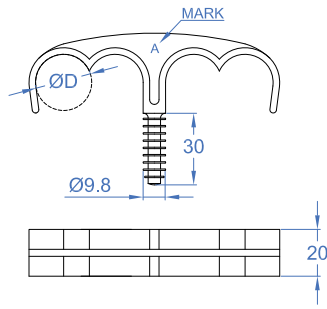
| CODE    | ØD(MM)  | ØD(") | MAXIMUM LOAD |
|---------|---------|-------|--------------|
| ABTS014 | 14 - 15 | -     | -            |
| ABTS016 | 16 - 17 | 3/8"  | -            |
| ABTS018 | 18 - 19 | -     | -            |
| ABTS020 | 20 - 21 | 1/2"  | -            |
| ABTS022 | 22 - 23 | -     | -            |
| ABTS025 | 25 - 26 | 3/4"  | -            |
| ABTS028 | 28 - 29 | -     | -            |
| ABTS032 | 30 - 32 | -     | -            |



## AB-TD

Double

| CODE    | ØD(MM)  | ØD(") | MAXIMUM LOAD |
|---------|---------|-------|--------------|
| ABTD016 | 15 - 16 | 3/8"  | -            |
| ABTD018 | 18 - 19 | -     | -            |
| ABTD020 | 20 - 21 | 1/2"  | -            |
| ABTD022 | 22 - 23 | -     | -            |
| ABTD025 | 25 - 26 | 3/4"  | -            |
| ABTD028 | 28 - 29 | -     | -            |



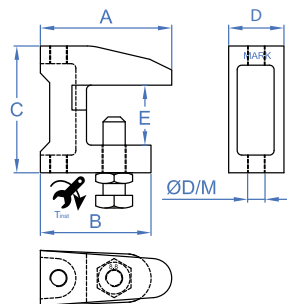
## AB-TC

Quadruple

| CODE    | ØD(MM)  | ØD('') | MAXIMUM LOAD |
|---------|---------|--------|--------------|
| ABTC020 | 20 - 21 | 1/2"   | -            |
| ABTC025 | 25 - 26 | 3/4"   | -            |

## SU

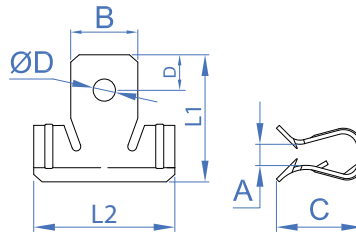
Quick beam attachment system



## SU-MO

Beam clamp

| CODE    | A  | B  | C  | D  | E  | TORQUE (NM) | INSTALLATION KEY (SW) | ØD (MM)     | SCREW SIZE |
|---------|----|----|----|----|----|-------------|-----------------------|-------------|------------|
| SUMOP09 | 38 | 35 | 37 | 18 | 20 | 10          | 13                    | PASANTE Ø9  | M8 x 35    |
| SUMOP11 | 44 | 41 | 42 | 21 | 20 | 15          | 17                    | PASANTE Ø11 | M10 x 40   |
| SUMOP13 | 58 | 48 | 54 | 24 | 25 | 15          | 17                    | PASANTE Ø13 | M10 x 50   |
| SUMOM06 | 38 | 35 | 37 | 18 | 20 | 10          | 13                    | ROSCADO M6  | M6 x 35    |
| SUMOM08 | 38 | 35 | 37 | 18 | 20 | 10          | 13                    | ROSCADO M8  | M8 x 35    |
| SUMOM10 | 44 | 41 | 42 | 21 | 20 | 15          | 17                    | ROSCADO M10 | M10 x 40   |
| SUMOM12 | 58 | 48 | 54 | 24 | 25 | 15          | 17                    | ROSCADO M12 | M10 x 50   |

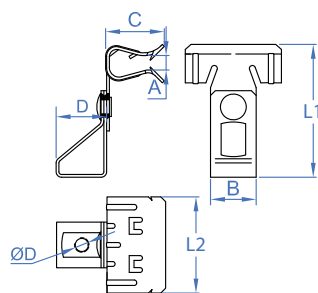


## SU-CL

Suspension clip

| CODE   | A       | B  | C  | D  | L1 | L2 | ØD (MM) |
|--------|---------|----|----|----|----|----|---------|
| SUCL02 | 1,5 - 4 | 13 | 14 | 10 | 28 | 28 | 6.3     |
| SUCL04 | 4 - 10  | 19 | 23 | 10 | 34 | 40 | 6.3     |
| SUCL10 | 10 - 15 | 19 | 23 | 10 | 40 | 40 | 6.3     |
| SUCL15 | 15 - 20 | 19 | 23 | 10 | 40 | 40 | 6.3     |

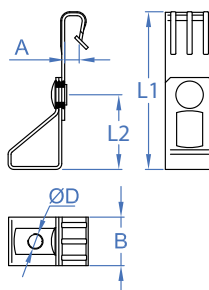




## SU-VA

Rod clip

| CODE     | A       | B  | C  | D  | L1 | L2 | ØD (MM) |
|----------|---------|----|----|----|----|----|---------|
| SUVA0602 | 1,5 - 4 | 19 | 14 | 21 | 50 | 28 | M6      |
| SUVA0604 | 4 - 10  | 19 | 23 | 21 | 54 | 40 | M6      |
| SUVA0610 | 10 - 15 | 19 | 23 | 21 | 60 | 40 | M6      |
| SUVA0615 | 15 - 20 | 19 | 23 | 21 | 60 | 40 | M6      |
| SUVA0804 | 1,5 - 4 | 19 | 14 | 21 | 50 | 28 | M8      |
| SUVA0810 | 4 - 10  | 19 | 23 | 21 | 54 | 40 | M8      |
| SUVA0815 | 10 - 15 | 19 | 23 | 21 | 60 | 40 | M8      |
| SUVA0802 | 15 - 20 | 19 | 23 | 21 | 60 | 40 | M8      |



## SU-CU

Holder clip

| CODE     | A       | B  | L1 | L2 | ØD (MM) |
|----------|---------|----|----|----|---------|
| SUCU0602 | 1,5 - 5 | 19 | 65 | 30 | M6      |
| SUCU0605 | 5 - 7   | 19 | 65 | 30 | M6      |
| SUCU0606 | 3 - 7   | 19 | 80 | 30 | M6      |
| SUCU0607 | 7 - 10  | 19 | 95 | 30 | M6      |

## SU-AB

Beam clip for clamp

| CODE     | MAX. FIXTURE THICKNESS | MAX. BEAM WIDTH | ØD (MM) | H1 | H3   | SCREW SIZE |
|----------|------------------------|-----------------|---------|----|------|------------|
| SUAB0603 | 3 - 7                  | 36,5            | M6      | 30 | 36,5 | M6x9       |
| SUAB0607 | 7 - 13                 | 36,5            | M6      | 36 | 36,5 | M6x9       |
| SUAB0614 | 14 - 20                | 36,5            | M6      | 43 | 36,5 | M6x9       |

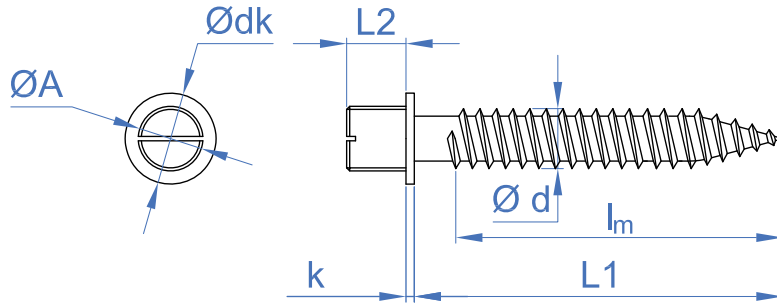
## SU-CA

Beam clip for cable

| CODE     | MAX. FIXTURE THICKNESS | ØD (MM) | THICKNESS |
|----------|------------------------|---------|-----------|
| SUCA0602 | 1 - 4                  | 6-7     | 0,6       |
| SUCA0604 | 4 - 7,5                | 6-7     | 0,6       |
| SUCA0607 | 7,5 - 12               | 6-7     | 0,6       |
| SUCA0802 | 1 - 4                  | 8-9     | 0,6       |
| SUCA0804 | 4 - 7,5                | 8-9     | 0,6       |
| SUCA0807 | 7,5 - 12               | 8-9     | 0,6       |
| SUCA1002 | 1 - 4                  | 10-11   | 0,6       |
| SUCA1004 | 4 - 7,5                | 10-11   | 0,6       |
| SUCA1007 | 7,5 - 12               | 10-11   | 0,6       |
| SUCA1202 | 1 - 4                  | 12-14   | 0,6       |
| SUCA1204 | 4 - 7,5                | 12-14   | 0,6       |
| SUCA1207 | 7,5 - 12               | 12-14   | 0,6       |
| SUCA1502 | 1 - 4                  | 15-18   | 0,6       |
| SUCA1504 | 4 - 7,5                | 15-18   | 0,6       |
| SUCA1507 | 7,5 - 12               | 15-18   | 0,6       |
| SUCA1902 | 1 - 4                  | 19-24   | 0,6       |
| SUCA1904 | 4 - 7,5                | 19-24   | 0,6       |
| SUCA1907 | 7,5 - 12               | 19-24   | 0,6       |
| SUCA2502 | 1 - 4                  | 25-30   | 0,6       |
| SUCA2504 | 4 - 7,5                | 25-30   | 0,6       |
| SUCA2507 | 7,5 - 12               | 25-30   | 0,6       |

# TAG

## Threaded screw clamp and staple



### AB-TA

Zinc-plated. Slotted

| CODE     | METRIC | ØD | L1 | L2  | K   | ØDK | THREAD LENGTH |
|----------|--------|----|----|-----|-----|-----|---------------|
| ABTA0630 | M6     | 5  | 30 | 6   | 1   | 8   | 30            |
| ABTA0640 | M6     | 5  | 40 | 6   | 1   | 8   | 40            |
| ABTA0650 | M6     | 5  | 50 | 6   | 1   | 8   | 50            |
| ABTA0730 | M7     | 6  | 22 | 6   | 1   | 9,5 | -             |
| ABTA0740 | M7     | 6  | 32 | 6   | 1   | 9,5 | -             |
| ABTA0750 | M7     | 6  | 42 | 6   | 1   | 9,5 | -             |
| ABTA0760 | M7     | 6  | 52 | 6   | 1   | 9,5 | -             |
| ABTA0770 | M7     | 6  | 62 | 6   | 1   | 9,5 | -             |
| ABTA0780 | M7     | 6  | 72 | 6   | 1   | 9,5 | -             |
| ABTA0840 | M8     | 6  | 40 | 7,5 | 1,4 | 8,5 | 40            |
| ABTA0860 | M8     | 6  | 60 | 7,5 | 1,4 | 8,5 | 60            |
| ABTA0880 | M8     | 6  | 80 | 7,5 | 1,4 | 8,5 | 45            |
| ABTA1050 | M10    | 8  | 50 | 9   | 1,7 | 12  | 50            |
| ABTA1070 | M10    | 8  | 70 | 9   | 1,7 | 12  | 45            |
| ABTA1090 | M10    | 8  | 90 | 9   | 1,7 | 12  | 45            |

### AB-TA B

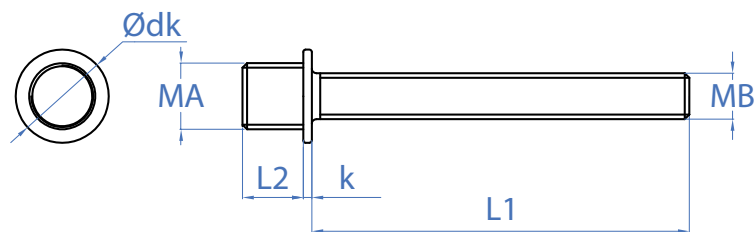
Yellow zinc-plated. Slotted

| CODE      | METRIC | ØD | L1 | L2 | K | ØDK | THREAD LENGTH |
|-----------|--------|----|----|----|---|-----|---------------|
| ABTAB0630 | M6     | 5  | 30 | 6  | 1 | 8   | 30            |
| ABTAB0640 | M6     | 5  | 40 | 6  | 1 | 8   | 40            |
| ABTAB0650 | M6     | 5  | 50 | 6  | 1 | 8   | 50            |

### AB-TA A2

A2 Stainless steel

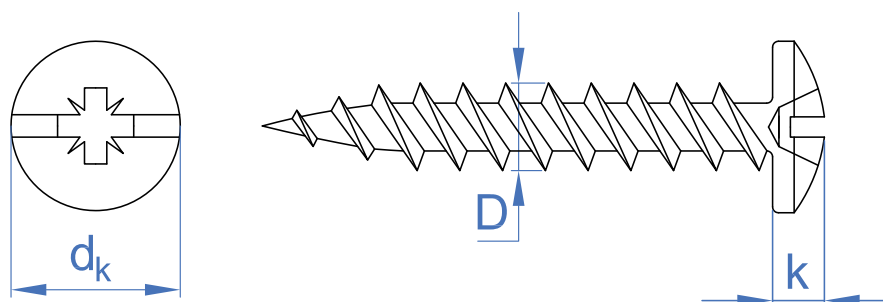
| CODE      | METRIC | ØD | L1 | L2 | K   | ØDK | THREAD LENGTH |
|-----------|--------|----|----|----|-----|-----|---------------|
| ABTA20630 | M6     | 5  | 30 | 7  | 1,2 | 7,8 | 30            |



### AB-TR

Threaded screw for clamps

| CODE      | METRIC | L1 | L2 | K | ØDK |
|-----------|--------|----|----|---|-----|
| ABTR05030 | M7     | 30 | 6  | 1 | 9   |
| ABTR05040 | M7     | 40 | 6  | 1 | 9   |
| ABTR05050 | M7     | 50 | 6  | 1 | 9   |
| ABTR05060 | M7     | 60 | 6  | 1 | 9   |
| ABTR06040 | M7     | 40 | 6  | 1 | 9   |
| ABTR06050 | M7     | 50 | 6  | 1 | 9   |
| ABTR06060 | M7     | 60 | 6  | 1 | 9   |



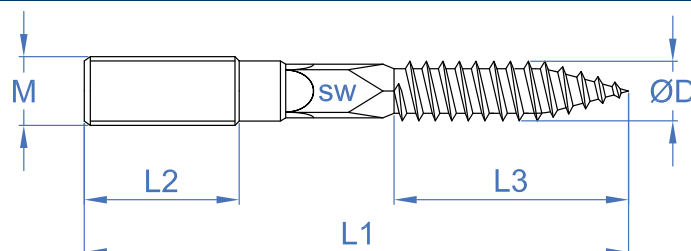
## AB-TG

Threaded screws for clips

| CODE     | LENGTH | INSTALLATION KEY | ØDK | K | ØD(MM)90 |
|----------|--------|------------------|-----|---|----------|
| ABTG4530 | 30     | PZ2              | 10  | 3 | 4,5      |
| ABTG4535 | 35     | PZ2              | 10  | 3 | 4,5      |
| ABTG4540 | 40     | PZ2              | 10  | 3 | 4,5      |
| ABTG5030 | 30     | PZ3              | 12  | 3 | 5        |
| ABTG5040 | 40     | PZ3              | 12  | 3 | 5        |

## ES-DR

Double threaded screw



## ES-DR

Zinc-plated. Tx

| CODE      | METRIC | LENGTH | ØD(MM) | INSTALLATION KEY (SW) | L1  | L2   | L3   |
|-----------|--------|--------|--------|-----------------------|-----|------|------|
| ESDR06040 | M6     | 40     | 6      | -                     | 40  | 12   | 24   |
| ESDR06050 | M6     | 50     | 6      | -                     | 50  | 16   | 28,5 |
| ESDR06060 | M6     | 60     | 6      | -                     | 60  | 18   | 34,5 |
| ESDR06070 | M6     | 70     | 6      | -                     | 70  | 26   | 34,5 |
| ESDR06080 | M6     | 80     | 6      | -                     | 80  | 34   | 34,5 |
| ESDR08050 | M8     | 50     | 7      | -                     | 50  | 13   | 29,5 |
| ESDR08060 | M8     | 60     | 7      | -                     | 60  | 15   | 37,5 |
| ESDR08070 | M8     | 70     | 7      | -                     | 70  | 25   | 37,5 |
| ESDR08080 | M8     | 80     | 7      | 6                     | 80  | 28,5 | 37,5 |
| ESDR08090 | M8     | 90     | 7      | 6                     | 90  | 28,5 | 48,5 |
| ESDR08100 | M8     | 100    | 7      | 6                     | 100 | 33,5 | 48,5 |
| ESDR08110 | M8     | 110    | 7      | 6                     | 110 | 42,5 | 48,5 |
| ESDR08120 | M8     | 120    | 7      | 6                     | 120 | 50   | 48,5 |
| ESDR08130 | M8     | 130    | 7      | 6                     | 130 | 50   | 48,5 |
| ESDR10080 | M10    | 80     | 8      | 8                     | 80  | 18   | 46,5 |
| ESDR10100 | M10    | 100    | 9      | 8                     | 100 | 24   | 57   |
| ESDR10110 | M10    | 110    | 9      | 8                     | 110 | 38   | 57   |
| ESDR10120 | M10    | 120    | 9      | 8                     | 120 | 45   | 57   |
| ESDR10130 | M10    | 130    | 9      | 8                     | 130 | 50   | 57   |
| ESDR10140 | M10    | 140    | 9      | 8                     | 140 | 50   | 57   |
| ESDR10150 | M10    | 150    | 9      | 8                     | 150 | 50   | 57   |
| ESDR10180 | M10    | 180    | 9      | 8                     | 180 | 50   | 57   |
| ESDR10200 | M10    | 200    | 9      | 8                     | 200 | 50   | 57   |

## ES-DA2

A2 Stainless steel. Tx

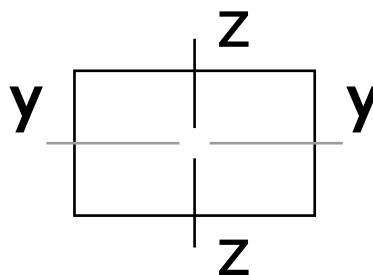
| CODE       | METRIC | LENGTH | ØD(MM) | INSTALLATION KEY (SW) | L1 | L2 | L3 |
|------------|--------|--------|--------|-----------------------|----|----|----|
| ESDA208060 | M8     | 60     | 7      | 6                     | 60 | 20 | 30 |
| ESDA210060 | M10    | 60     | 9      | 8                     | 60 | 20 | 30 |

**SUPPORT CHANNELS RANGE**

| CODE      | DESCRIPTION                               | MATERIAL | COATING |
|-----------|---|----------|---------|
| GPZ201010 | Channel 20 x 10 x 1                       | A        | Z       |
| GPZ250808 | Channel 25 x 8 x 0,80                     | A        | Z       |
| GPG271812 | Channel 27 x 18 x 1,25                    | A        | Z       |
| GPG283018 | Channel 28 x 30 x 1,80                    | A        | Z       |
| GPG384020 | Channel 38 x 40 x 2,00                    | A        | Z       |
| GPG351312 | Channel 35 x 12 x 1,20                    | A        | Z       |
| GPG402015 | Channel 40 x 20 x 1,50                    | A        | Z       |
| GPI271812 | Channel 27 x 18 x 1,25                    | A2       | Z       |
| GPI283015 | Channel 28 x 30 x 1,50                    | A        | Z       |
| GPP271812 | Channel 27 x 18 x 1,25                    | A        | Z       |
| GPV251120 | Channel 25 x 11 x 2,00                    | PVC      |         |
| GPO357510 |   | A        | Z       |
| GPO351515 | Zinc-plated omega Channel                 | A        | Z       |
| GLO357510 | slotted/plain                             | A        | Z       |
| GLO351515 |   | A        | Z       |
| SPZ271820 | Cantilever 27 x 18 x 1,20 x 200           | A        | Z       |
| SPZ271830 | Cantilever 27 x 18 x 1,20 x 300           | A        | Z       |
| SPZ384020 | Cantilever 38 x 40 x 2,00 x 200           | A        | Z       |
| SPZ384025 | Cantilever 38 x 40 x 2,00 x 250           | A        | Z       |
| SPZ384030 | Cantilever 38 x 40 x 2,00 x 300           | A        | Z       |
| SPZ384035 | Cantilever 38 x 40 x 2,00 x 350           | A        | Z       |
| SPZ384040 | Cantilever 38 x 40 x 2,00 x 400           | A        | Z       |
| SPZ384050 | Cantilever 38 x 40 x 2,00 x 500           | A        | Z       |
| SPZ384060 | Cantilever 38 x 40 x 2,00 x 600           | A        | Z       |
| SPV2718   | Vertical support                          | A        | Z       |
| SPV3840   |   | A        | Z       |
| SPH2718   | Horizontal support                        | A        | Z       |
| SPH3840   |   | A        | Z       |
| SPGH2718  | Horizontal channel support                | A        | Z       |
| SPGH3840  |   | A        | Z       |
| TG230620  |   | A        | Z       |
| TG230820  | Tope tornillo guía perforada              | A        | Z       |
| TG230830  |   | A        | Z       |
| TG340830  |   | A        | Z       |
| TG41030   |   | A        | Z       |
| TUG201006 |   | A        | Z       |
| TUG201008 | Channel stud nut                          | A        | Z       |
| TUG271808 |   | A        | Z       |
| TUG271810 |   | A        | Z       |
| TUGRA2706 |   | A        | Z       |
| TUGRA2708 | Fast nut-guide with washer                | A        | Z       |
| TUGRA3808 |   | A        | Z       |
| TUGRA3810 |   | A        | Z       |
| TGR230620 |   | A        | Z       |
| TGR230820 |   | A        | Z       |
| TGR230830 | Fast-fixing stop screw                    | A        | Z       |
| TGR340830 |   | A        | Z       |
| TGR341030 |   | A        | Z       |
| EMZ45     |   | A        | Z       |
| EMZ90     |   | A        | Z       |
| EMZ00     | Zinc-plated and stainless steel brackets  | A        | Z       |
| EMI45     |   | A2       | Z       |
| EMI90     |   | A        | Z       |
| EMI00     |   | A        | Z       |
| PGZ2718   |   | A        | Z       |
| PGZ2830   |   | A        | Z       |
| PGZ3840   | Zinc-plated and stainless steel U-fitting | A        | Z       |
| PGI2718   |   | A2       | Z       |
| PGI2830   |   | A        | Z       |
| PGI3840   |   | A        | Z       |
| PUZ2718   | Union plates for profiles                 | A        | Z       |
| PUZ3840   |   | A        | Z       |
| SOTP2718  |   |          |         |
| SOTP2830  |   |          |         |
| SOTP3840  | Plastic cap for framing systems           |          |         |
| SOTPA4121 |   |          |         |
| SOTPA4141 |   |          |         |
| SOPG27    |   |          |         |
| SOPG38    | Isophonic rubber profile                  |          |         |
| SOPG41    |   |          |         |

| CODE        | DESCRIPTION                                  | MATERIAL | COATING |
|-------------|--|----------|---------|
| GPX421115   | Channel 41 x 21 x 1,50                       | A        | Z       |
| GPX42120    | Channel 41 x 21 x 2,00                       | A        | Z       |
| GPX42125    | Channel 41 x 21 x 2,50                       | A        | Z       |
| GPX441115   | Channel 41 x 41 x 1,50                       | A        | Z       |
| GPX44120    | Channel 41 x 41 x 2,00                       | A        | Z       |
| GPX44125    | Channel 41 x 41 x 2,50                       | A        | Z       |
| GPX2M412120 | Channel 41 x 21 x 2,00                       | A        | Z       |
| GPX2M414120 | Channel 41 x 41 x 2,00                       | A        | Z       |
| SPX412115   | Cantilever 41 x 21 x 2,50 x 150              | A        | Z       |
| SPX412130   | Cantilever 41 x 21 x 2,50 x 300              | A        | Z       |
| SPX412145   | Cantilever 41 x 21 x 2,50 x 450              | A        | Z       |
| SPX414115   | Cantilever 41 x 41 x 2,50 x 150              | A        | Z       |
| SPX414130   | Cantilever 41 x 41 x 2,50 x 300              | A        | Z       |
| SPX414145   | Cantilever 41 x 41 x 2,50 x 450              | A        | Z       |
| SPX414160   | Cantilever 41 x 41 x 2,50 x 600              | A        | Z       |
| SPX414175   | Cantilever 41 x 41 x 2,50 x 750              | A        | Z       |
| SPX414110   | Cantilever 41 x 41 x 2,50 x 1000             | A        | Z       |
| SPGH3840    | Horizontal channel support                   | A        | Z       |
| PRX01       | Adjustable support INDESTRUT                 | A        | Z       |
| SPRXH4121   | Rectangular U base support INDESTRUT         | A        | Z       |
| SPRXV4121   |  | A        | Z       |
| SPUX412100  | Support U base INDESTRUT                     | A        | Z       |
| SPUX412145  |  | A        | Z       |
| ABGX4121    | Channel clamp INDESTRUT                      | A        | Z       |
| EMPX4121    | Connecting piece for prof INDESTRUT          | A        | Z       |
| RESX300     | Reinforcement support INDESTRUT              | A        | Z       |
| RESX550     |  | A        | Z       |
| RTX01       | Rotule INDESTRUT                             | A        | Z       |
| EMX9002     |  | A        | Z       |
| EMX9004     | Zinc- plated fixing plates INDESTRUT         | A        | Z       |
| EMX4502     |  | A        | Z       |
| EMX1302     |  | A        | Z       |
| PGX4121     | Profile bridges INDESTRUT                    | A        | Z       |
| PGX4141     |  | A        | Z       |
| UNEX412103  |  | A        | Z       |
| UNPX42101   |  | A        | Z       |
| UNPX42102   | Angled brackets/plate T shaped INDESTRUT     | A        | Z       |
| UNPX42103   |  | A        | Z       |
| UNPX42104   |  | A        | Z       |
| UNTX412104  |  | A        | Z       |
| SCRX090     | Heavy duty angled bracket                    | A        | Z       |
| TUGX08      | Channel nut                                  | A        | Z       |
| TUGX10      |  | A        | Z       |
| TUGXMU08    | Channel spring nut INDESTRUT                 | A        | Z       |
| TUGXMU10    |  | A        | Z       |
| TGX0840     |  | A        | Z       |
| TGX0860     | Profile buffer screws INDESTRUT              | A        | Z       |
| TGX1040     |  | A        | Z       |
| TGX1060     |  | A        | Z       |
| TURX08      |  | A        | Z       |
| TURX10      | Nut quick fixation INDESTRUT                 | A        | Z       |
| TURX12      |  | A        | Z       |
| TURXA08     | Nut INDESTRUT with washer for quick fixation | A        | Z       |
| TURXA10     |  | A        | Z       |
| TGRX0830    |  | A        | Z       |
| TGRX0860    | INDESTRUT fast-fixing stop screw             | A        | Z       |
| TGRX1030    |  | A        | Z       |
| TGRX1060    |  | A        | Z       |
| PAEXM08     | Sliding guide                                | A        | Z       |
| PAEXM10     |  | A        | Z       |
| SOTPA4121   | Plastic cap for framing systems              |          |         |
| SOTPA4141   |  |          |         |
| SOPG41      | Isophonic rubber profile                     |          |         |

GEOMETRIC DATA



| CODE        | SECTION   | WEIGHT | AREA               | MOMENT OF INERTIA (I <sub>y</sub> ) | MOMENT OF INERTIA (I <sub>z</sub> ) | RESISTANT MODULE (W <sub>y</sub> ) | RESISTANT MODULE (W <sub>z</sub> ) |
|-------------|-----------|--------|--------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
|             | [mm x mm] | [Kg/m] | [cm <sup>2</sup> ] | [cm <sup>4</sup> ]                  | [cm <sup>4</sup> ]                  | [cm <sup>3</sup> ]                 | [cm <sup>3</sup> ]                 |
| GPZ201010   | 20 x 10   | 0.31   | 0.44               | 0.06                                | 0.25                                | 0.10                               | 0.25                               |
| GPZ250808   | 25 x 8    | 0.26   | 0.35               | 0.03                                | 0.30                                | 0.06                               | 0.24                               |
| GPG271812   | 27 x 18   | 0.66   | 0.84               | 0.37                                | 0.97                                | 0.34                               | 0.71                               |
| GPG283018   | 28 x 30   | 1.25   | 1.60               | 1.79                                | 2.10                                | 1.03                               | 1.50                               |
| GPG384020   | 38 x 40   | 2.00   | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| GPG402015   | 40 x 20   | 0.94   | 1.30               | 0.71                                | 3.10                                | 0.57                               | 1.55                               |
| GPP271812   | 27 x 18   | 0.66   | 0.84               | 0.37                                | 0.97                                | 0.34                               | 0.71                               |
| GPI271812   | 27 x 18   | 0.66   | 0.79               | 0.36                                | 0.90                                | 0.33                               | 0.67                               |
| GPI283015   | 28 x 30   | 1.25   | 1.37               | 1.54                                | 1.82                                | 0.89                               | 1.30                               |
| GPI384020   | 37 x 40   | 2.00   | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| GPX412115   | 41 x 21   | 1.21   | 1.41               | 0.89                                | 3.58                                | 0.70                               | 1.75                               |
| GPX412120   | 41 x 21   | 1.55   | 1.99               | 0.95                                | 4.44                                | 0.75                               | 2.17                               |
| GPX412125   | 41 x 21   | 1.71   | 2.28               | 1.32                                | 5.54                                | 1.03                               | 2.70                               |
| GPX414115   | 41 X 41   | 1.65   | 2.42               | 4.88                                | 5.99                                | 2.05                               | 2.92                               |
| GPX414120   | 41 x 41   | 2.09   | 2.65               | 5.84                                | 7.62                                | 2.46                               | 3.72                               |
| GPX414125   | 41 x 41   | 2.53   | 3.28               | 7.08                                | 9.25                                | 2.98                               | 4.51                               |
| GPX2M412120 | 41 x 21   | 1.55   | 1.99               | 0.95                                | 4.44                                | 0.75                               | 2.17                               |
| GPX2M414120 | 41 x 41   | 2.09   | 2.65               | 5.84                                | 7.62                                | 2.46                               | 3.72                               |
| SPZ271820   | 27 x 18   | 1,2    | 0.84               | 0.37                                | 0.97                                | 0.34                               | 0.71                               |
| SPZ271830   | 27 x 18   | 1,2    | 0.84               | 0.37                                | 0.97                                | 0.34                               | 0.71                               |
| SPZ384020   | 38 x 40   | 2,4    | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| SPZ384025   | 38 x 40   | 2,4    | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| SPZ384030   | 38 x 40   | 2,4    | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| SPZ384035   | 38 x 40   | 2,4    | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| SPZ384040   | 38 x 40   | 2,4    | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| SPZ384050   | 38 x 40   | 2,4    | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| SPZ384060   | 38 x 40   | 2,4    | 2.55               | 5.39                                | 6.18                                | 2.39                               | 3.25                               |
| SPX412115   | 41 x 21   | 1,88   | 2.28               | 1.32                                | 5.54                                | 1.03                               | 2.70                               |
| SPX412130   | 41 x 21   | 1,88   | 2.28               | 1.32                                | 5.54                                | 1.03                               | 2.70                               |
| SPX412145   | 41 x 21   | 1,88   | 2.28               | 1.32                                | 5.54                                | 1.03                               | 2.70                               |
| SPX414115   | 41 x 41   | 2,7    | 3.28               | 7.08                                | 9.25                                | 2.98                               | 4.51                               |
| SPX414130   | 41 x 41   | 2,7    | 3.28               | 7.08                                | 9.25                                | 2.98                               | 4.51                               |
| SPX414145   | 41 x 41   | 2,7    | 3.28               | 7.08                                | 9.25                                | 2.98                               | 4.51                               |
| SPX414160   | 41 x 41   | 2,7    | 3.28               | 7.08                                | 9.25                                | 2.98                               | 4.51                               |
| SPX414175   | 41 x 41   | 2,7    | 3.28               | 7.08                                | 9.25                                | 2.98                               | 4.51                               |
| SPX414110   | 41 x 41   | 2,7    | 3.28               | 7.08                                | 9.25                                | 2.98                               | 4.51                               |

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URUGUAY



**INDEX**<sup>®</sup>  
A PERFECT FIXING

The image shows a close-up of a brown cardboard box in a warehouse. The box features the INDEX logo, which consists of a stylized 'I' made of three horizontal bars, followed by the word 'INDEX' in a bold, blue, sans-serif font. Below the logo is the slogan 'A PERFECT FIXING' in a smaller, blue, sans-serif font. The background is a blurred warehouse interior with a worker in a blue uniform on the left and bright overhead lights.

# SALES CONDITIONS

## SHIPPING

Shipping cost will be paid when the value of the order exceed the amount agree for free transport as sale condition between the manager of the country and the client. This conditions are considered using our usual transport agency.

When the transport cost will be paid for the client and the client dont express directly his intention to use another type of transport or company, the order will be shipped with our regular agency transport.

At the moment of received the order, please verify the condition of the order, if there is some damage in the order, please proceed to state this one into the receipt of the agency transport and comunicate as soon as possible this claim or objection to your contact person in INDEX.

For orders which the total amount will be less than 250€, should be charge 30 € as handling cost.

## PAYMENT CONDITIONS

No replacement costs admitted.

60-day direct money order, net payment.

If bills of exchange are not domiciled, under no circumstances shall INDEX A Perfect Fixing be responsible for possible return expenses due to unpaid drafts.

Payment documents must be sent within a maximum of 30 days after invoice date.

Payment documents which do not respect payments due date shown on our invoice shall incur a 1% monthly deferral cost.

Our computer system automatically retains any orders in the event of arrears or delay in the receipt of payment documents.

## DELIVERY TIME

Unless expressly agreed with our Headquarters, the delivery times indicated by our representatives are to be used as a guide.

Delay in delivery times or deadlines shall not lead to penalties.

## AUGUST AND DECEMBER

Due dates that are handled in these months shall not have charges or credits.

If payment due is fractioned at 50% between the previous and following month, no charges or credits are to be applied.

If payment due is brought forward to the previous month, a 1% discount for advance payment shall be applied to the invoice.

If payment due is deferred to the following month, a 1% charge shall be applied to the invoice for financial costs.

## MATERIAL RETURNS

Material returns shall not be accepted 15 days after delivery date.

If the return is due to reasons not attributable to INDEX A Perfect Fixing, the customer shall return the goods with prepaid shipping. In addition, the client is to be charged any costs arising by way of repackaging, as well as those incurred for initial shipment transportation. The surcharge shall total approximately 20% of the value of the goods.

The value of the returned goods or the payment done, shall be deducted from the origin bill and costumer shall be notified.

Material returned with unpaid shipping costs shall not be accepted unless it comes through out usual transport agencies.

The Courts and Tribunals of the city of Logroño shall be considered the competent authority for any questions arising from sales performed by INDEX A Perfect Fixing (Técnicas Expansivas, S.L.). Prices do not include VAT. INDEX A Perfect Fixing reserves the right to change prices, packaging or articles in stock without prior notice.

INDEX A Perfect Fixing, due to production requirements, reserves the right to modify product design or characteristics without prior notice. Images in this catalogue are informative illustrations with no contractual obligation and may not coincide with the original model.

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| ABRI028   | 252  | ABRID025  | 254  | ABSI014    | 270  | ACHAFO12C | 65   | ACHTA212L  | 61   | AGP098103  | 259 |
| ABRI035   | 252  | ABRID032  | 254  | ABSI015    | 270  | ACHE08C   | 63   | ACHTA214C  | 61   | AGP104112  | 259 |
| ABRI040   | 252  | ABRID040  | 254  | ABSI016    | 270  | ACHE09C   | 63   | ACHTA214L  | 61   | AGP113121  | 259 |
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| ABRI054   | 252  | ABRID063  | 254  | ABSI018    | 270  | ACHE10L   | 63   | ACHTA216L  | 61   | AGP131139  | 259 |
| ABRI060   | 252  | ABRID075  | 254  | ABSI019    | 270  | ACHE11C   | 63   | ACHTA220C  | 61   | AGP140148  | 259 |
| ABRI070   | 252  | ABRID090  | 254  | ABSI020    | 270  | ACHE11L   | 63   | ACHTPI08C  | 62   | AGP149161  | 259 |
| ABRI075   | 252  | ABRID110  | 254  | ABSI021    | 270  | ACHE12C   | 63   | ACHTPI08L  | 62   | AGP162174  | 259 |
| ABRI083   | 252  | ABRID125  | 254  | ABSI022    | 270  | ACHE12L   | 63   | ACHTPI10C  | 62   | AH06060    | 46  |
| ABRI090   | 252  | ABRID140  | 254  | ABSI025    | 270  | ACHE14C   | 63   | ACHTPI10L  | 62   | AH06070    | 46  |
| ABRI100   | 252  | ABRID160  | 254  | ABTA0630   | 329  | ACHE14L   | 63   | ACHTPI12C  | 62   | AH06080    | 46  |
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| ABRI140   | 252  | ABRT3913  | 166  | ABTA0750   | 329  | ACHG12C   | 64   | ACHTPL10L  | 62   | AH06130    | 46  |
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| ABRI200   | 252  | ABRT4213  | 166  | ABTA0840   | 329  | ACHGA210C | 64   | ADUTC60    | 140  | AH06170    | 46  |
| ABRI220   | 252  | ABRT4216  | 166  | ABTA0860   | 329  | ACHGA212C | 64   | AFAZ144819 | 198  | AH06180    | 46  |
| ABRI250   | 252  | ABRT4219  | 166  | ABTA0880   | 329  | ACHGE10   | 64   | AFAZ144828 | 198  | AH08060    | 46  |
| ABRI280   | 252  | ABRT4225  | 166  | ABTA1050   | 329  | ACHGE12   | 64   | AFAZ144835 | 198  | AH08075    | 46  |
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| ABRI400   | 252  | ABRT4810  | 166  | ABTAB0630  | 329  | ACHINB08C | 63   | AFGR144819 | 199  | AH08120    | 46  |
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| ARFOM08Z   | 328  | ATAPO08NE  | 162  | AVR10120    | 75   | BAESM08     | 112  | BC48200MA  | 287  | BN48250   | 285 |
| ARFOM10Z   | 328  | ATAPO08PC  | 162  | AVR10150    | 75   | BAGAM04     | 112  | BC48200RO  | 288  | BN48290   | 285 |
| ARFOM12Z   | 328  | ATAPO08RC  | 162  | AVR10180    | 75   | BAGAM05     | 112  | BC48200VE  | 287  | BN48370   | 285 |
| ARFOM16Z   | 328  | ATAPO08RT  | 162  | AZA2060500  | 258  | BAGAM06     | 112  | BC48290AM  | 287  | BN48430   | 285 |
| ARINO14    | 161  | ATAPO08RX  | 162  | AZA2060750  | 258  | BAGAM08     | 112  | BC48290AZ  | 288  | BN76150   | 285 |
| ARINO16    | 161  | ATAPO08VN  | 162  | AZA2061000  | 258  | BAUTO165510 | 158  | BC48290GR  | 287  | BN76200   | 285 |
| ARINO18    | 161  | ATAPO10AR  | 162  | AZA2061250  | 258  | BAUTO165540 | 158  | BC48290MA  | 287  | BN76290   | 285 |
| ARINO25    | 161  | ATAPO10BO  | 162  | AZA2081500  | 258  | BAUTO165550 | 158  | BC48290RO  | 288  | BN76370   | 285 |
| ARINOM30   | 161  | ATAPO10BP  | 162  | AZA2082000  | 258  | BAUTO165565 | 158  | BC48290VE  | 287  | BN76450   | 285 |
| ARPAR25    | 161  | ATAPO10BS  | 162  | AZA2082500  | 258  | BAUTO165580 | 158  | BCPA24214  | 170  | BN76540   | 285 |
| ARPARA225  | 161  | ATAPO10GM  | 162  | AZA2083000  | 258  | BAUTO5510   | 158  | BCPA24223  | 170  | BN88770   | 285 |
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| ARSS10     | 318  | ATAPO10RC  | 162  | AZA2108000  | 258  | BAUTO5565   | 158  | BCPN4214   | 170  | BNDT36200 | 288 |
| ARSS12     | 318  | ATAPO10RT  | 162  | AZAMA06     | 73   | BAUTO5580   | 158  | BCPN4223   | 170  | BNDT48200 | 288 |
| ASF008016  | 271  | ATAPO10RX  | 162  | AZAMA08     | 73   | BB12100     | 286  | BCPZ4214   | 170  | BNDT48300 | 288 |
| ASF012022  | 271  | ATAPO10VN  | 162  | AZAMA10     | 73   | BB12225     | 286  | BCPZ4214BL | 170  | BNDT48370 | 288 |
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| ASF020032  | 271  | AUE166325  | 159  | AZAMAF006   | 73   | BB12720     | 286  | BHDS06110  | 240  | BOCA006   | 242 |
| ASF025040  | 271  | AUE166332  | 159  | AZAMAF008   | 73   | BB12850     | 286  | BHDS06160  | 240  | BOCA007   | 242 |
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| ASF050070  | 271  | AUE166380  | 159  | AZAMC08     | 72   | BB25160     | 286  | BHDS08160  | 240  | BOCA055   | 242 |
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| ASF110130  | 271  | AUE186315  | 159  | AZAME10     | 72   | BB36370     | 286  | BHDS16210  | 240  | BZ1251M10 | 235 |
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| ASF130150  | 271  | AUE186332  | 159  | AZAME16     | 72   | BB48160     | 286  | BID25110   | 289  | BZ1252M04 | 235 |
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| BZPACP22520 | 207  | BZT8139019  | 172  | BZTAME10060 | 70   | BZTPPO40030 | 189  | BZTXBP30020 | 180  | BZTXZP60080 | 181  |
| BZPACP22525 | 207  | BZT8139025  | 172  | BZTAPLAME   | 116  | BZTPPO40035 | 189  | BZTXBP30025 | 180  | BZZ98503    | 233  |
| BZPACP22530 | 207  | BZT8139032  | 172  | BZTAPLANY   | 116  | BZTPPO40040 | 189  | BZTXBP30030 | 180  | BZZ98504    | 233  |
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| BZPACP25050 | 207  | BZT8142013  | 172  | BZTB05040   | 194  | BZTPPO40050 | 189  | BZTXBP35020 | 180  | BZZ98506    | 233  |
| BZPACP29060 | 207  | BZT8142016  | 172  | BZTB05050   | 194  | BZTPPO40060 | 189  | BZTXBP35025 | 180  | BZZ98508    | 233  |
| BZPACP29070 | 207  | BZT8142019  | 172  | BZTB06030   | 194  | BZTPPO45030 | 189  | BZTXBP35030 | 180  | BZZ98510    | 233  |
| BZPACP34040 | 207  | BZT8142025  | 172  | BZTB06040   | 194  | BZTPPO45035 | 189  | BZTXBP35035 | 180  | BZZ98512    | 233  |
| BZPACP34050 | 207  | BZT8142032  | 172  | BZTB06050   | 194  | BZTPPO45040 | 189  | BZTXBP35040 | 180  | CABA004     | 112  |
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| BZPACX15016 | 208  | BZT8148038  | 172  | BZTB07070   | 194  | BZTPPO50035 | 189  | BZTXBP40045 | 180  | CAPA004     | 113  |
| BZPACX15025 | 208  | BZT8148050  | 172  | BZTB08040   | 194  | BZTPPO50040 | 189  | BZTXBP40050 | 180  | CAPA005     | 113  |
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| BZPAESM04   | 113  | BZT8155025  | 172  | BZTB08060   | 194  | BZTPPO50060 | 189  | BZTXBP45030 | 180  | CAPA008     | 113  |
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| BZPL35045   | 136  | BZT9650410Z | 231  | BZTBTS10    | 101  | BZTPPO60080 | 189  | BZTXBP50035 | 180  | CFBL        | 208  |
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| BZPUPHCL02  | 240  | BZT9650430Z | 231  | BZTCCA05050 | 99   | BZTPPO60100 | 189  | BZTXBP50050 | 180  | CIPE1708    | 272  |
| BZPUPHCL03  | 240  | BZT9650510Z | 231  | BZTCCA06040 | 99   | BZTPPOT04   | 103  | BZTXBP50060 | 180  | CIPEA21708  | 272  |
| BZPUPOCL01  | 241  | BZT9650520Z | 231  | BZTCCA06050 | 99   | BZTPPOT05   | 103  | BZTXBP50070 | 180  | CIPR1208    | 273  |
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| BZPUPOCL03  | 241  | BZT9650530Z | 231  | BZTCCA06070 | 99   | BZTPPOT08   | 103  | BZTXBP60050 | 180  | CKBB12225   | 286  |
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| BZPUTOT02   | 240  | BZT9650630Z | 231  | BZTCCA08080 | 99   | BZTPPOTS06  | 101  | BZTXBP60070 | 180  | CKBB25100   | 286  |
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| BZRECA4814  | 119  | BZT9850330Z | 230  | BZTN4510    | 100  | BZTPTPADGR  | 243  | BZTXZP35016 | 181  | CKBB36300   | 286  |
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| BZREFL4835  | 120  | BZT9850430Z | 230  | BZTNXA08100 | 95   | BZTPTPADNO  | 243  | BZTXZP35030 | 181  | CKBB48160   | 286  |

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| INCO459   | 114  | KCGPX0240  | 319  | LSABGAT028 | 256  | LSABRETO28  | 250  | LSBAGAM05   | 112  | LSTCCA06070 | 99  |
| INCO537   | 114  | KCGPX02AM  | 319  | LSABGAT035 | 256  | LSABRETO35  | 250  | LSBAGAM06   | 112  | LSTCCA08060 | 99  |
| INCO552   | 114  | KCGPX0330  | 319  | LSABGAT040 | 256  | LSABRETO40  | 250  | LSCABA004   | 112  | LSTCCA08080 | 99  |
| INCO565   | 114  | KCGPX0335  | 319  | LSABGAT048 | 256  | LSABRETO48  | 250  | LSCABA005   | 112  | LSTCCC05025 | 98  |
| INCO580   | 114  | KCGPX0340  | 319  | LSABGAT060 | 256  | LSABRETO60  | 250  | LSCABA006   | 112  | LSTCCC05030 | 98  |
| INCO637   | 114  | KCGPX03AM  | 319  | LSABGAT075 | 256  | LSABRETO75  | 250  | LSCAPA004   | 113  | LSTCCC05035 | 98  |
| INCO652   | 114  | KCPA0230   | 319  | LSABGAT090 | 256  | LSABRETO90  | 250  | LSCAPA005   | 113  | LSTCCC05050 | 98  |
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| INCO680   | 114  | KCPA0240   | 319  | LSABGS015  | 275  | LSABRETT25  | 250  | LSESDR06080 | 331  | LSTCCC06040 | 98  |
| INHE837   | 114  | KCPA02AM   | 319  | LSABGS018  | 275  | LSABRIT022  | 252  | LSESDR08060 | 331  | LSTCCC06050 | 98  |
| INHE855   | 114  | KCPA0330   | 319  | LSABGS022  | 275  | LSABRIT028  | 252  | LSESDR08080 | 331  | LSTCCC06060 | 98  |
| INHE865   | 114  | KCPA0335   | 319  | LSABGUG15  | 291  | LSABRIT035  | 252  | LSESDR08100 | 331  | LSTCCC06070 | 98  |
| INPINZANI | 115  | KCPA0340   | 319  | LSABGUG18  | 291  | LSABRIT040  | 252  | LSESDR08120 | 331  | LSTCCC08060 | 98  |
| INPISANIN | 115  | KCPA03AM   | 319  | LSABGUG20  | 291  | LSABRIT048  | 252  | LSESDR10080 | 331  | LSTCCC08080 | 98  |
| INSI421   | 114  | KCPSC0230  | 319  | LSABGUG22  | 291  | LSABRIT060  | 252  | LSESDR10100 | 331  | LSTNXA08080 | 95  |
| INSI432   | 114  | KCPSC0235  | 319  | LSABGUG25  | 291  | LSABRIT075  | 252  | LSESDR10120 | 331  | LSTNXA08100 | 95  |
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| INSI552   | 114  | KCPSC0330  | 319  | LSABGUG40  | 291  | LSABTA0630  | 329  | LSHENOM10   | 68   | LSTNXA10100 | 95  |
| INSI565   | 114  | KCPSC0335  | 319  | LSABGUG50  | 291  | LSABTA0640  | 329  | LSHP75072   | 57   | LSTNXE08080 | 95  |
| INSI637   | 114  | KCPSC0340  | 319  | LSABID012  | 290  | LSABTA0650  | 329  | LSHP75092   | 57   | LSTNXE08100 | 95  |
| INSI652   | 114  | KCPSC03AM  | 319  | LSABID014  | 290  | LSABTA0840  | 329  | LSHP75112   | 57   | LSTNXE08120 | 95  |
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| INVN6040  | 196  | KFSAU10200 | 315  | LSABIN020  | 290  | LSABTS018   | 293  | LSINCO637   | 114  | MAE0825     | 327 |
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| INVN6070  | 196  | KFSMAI0200 | 315  | LSABM6014  | 264  | LSACHA10C   | 65   | LSMAE0825   | 327  | MAEI650     | 327 |
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| RECA4814   | 119  | RENO4812NE | 120  | SCED050503  | 214  | SJA42606   | 124  | SLPT18120   | 59   | SUCA1207   | 323  |
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| TBR06050   | 195  | TCCC08080   | 98   | TEGA33     | 282  | TEXBP50080 | 180  | TEXBT60040 | 182  | TEXZP40035 | 181 |
| TBR06060   | 195  | TCCC08100   | 98   | TEGR2530   | 282  | TEXBP50090 | 180  | TEXBT60045 | 182  | TEXZP40040 | 181 |
| TBR06070   | 195  | TCCC08120   | 98   | TEM025     | 282  | TEXBP50100 | 180  | TEXBT60050 | 182  | TEXZP40045 | 181 |
| TBR08050   | 195  | TCCC08140   | 98   | TEM033     | 282  | TEXBP50110 | 180  | TEXBT60060 | 182  | TEXZP40050 | 181 |
| TBR08060   | 195  | TCMA05022   | 70   | TEPE2530   | 282  | TEXBP50120 | 180  | TEXBT60070 | 182  | TEXZP40055 | 181 |
| TBR08070   | 195  | TCMA06030   | 70   | TEXA250050 | 183  | TEXBP60040 | 180  | TEXBT60080 | 182  | TEXZP40060 | 181 |
| TBR08080   | 195  | TCMA06040   | 70   | TEXA250060 | 183  | TEXBP60045 | 180  | TEXBT60090 | 182  | TEXZP40070 | 181 |
| TBR10060   | 195  | TCMA06050   | 70   | TEXA250070 | 183  | TEXBP60050 | 180  | TEXBT60100 | 182  | TEXZP40080 | 181 |
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| TC2A08060  | 97   | TCPA24232   | 175  | TEXABM10   | 185  | TEXBP60080 | 180  | TEXBT60130 | 182  | TEXZP45025 | 181 |
| TC2A08080  | 97   | TCPB4213    | 175  | TEXABM10   | 185  | TEXBP60090 | 180  | TEXBT60140 | 182  | TEXZP45030 | 181 |
| TC2A08100  | 97   | TCPB4222    | 175  | TEXBP25012 | 180  | TEXBP60100 | 180  | TEXBT60150 | 182  | TEXZP45035 | 181 |
| TC2A08120  | 97   | TCPB4232    | 175  | TEXBP25016 | 180  | TEXBP60110 | 180  | TEXBT60160 | 182  | TEXZP45040 | 181 |
| TC2A10065  | 97   | TCPN4213    | 175  | TEXBP25020 | 180  | TEXBP60120 | 180  | TEXBT60180 | 182  | TEXZP45045 | 181 |
| TC2A10080  | 97   | TCPN4222    | 175  | TEXBP25025 | 180  | TEXBT10080 | 182  | TEXBT60200 | 182  | TEXZP45050 | 181 |
| TC2A10100  | 97   | TCPN4232    | 175  | TEXBP30010 | 180  | TEXBT10100 | 182  | TEXBT60220 | 182  | TEXZP45060 | 181 |
| TC2A10115  | 97   | TCPZ4213    | 175  | TEXBP30012 | 180  | TEXBT10120 | 182  | TEXBT60240 | 182  | TEXZP45070 | 181 |
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| TC6A08080  | 97   | TCSOI4075   | 76   | TEXBP30020 | 180  | TEXBT10180 | 182  | TEXBT60300 | 182  | TEXZP50030 | 181 |
| TC6A08100  | 97   | TCSOI4100   | 76   | TEXBP30025 | 180  | TEXBT10200 | 182  | TEXBT80080 | 182  | TEXZP50035 | 181 |
| TC6A08120  | 97   | TCSOI4130   | 76   | TEXBP30030 | 180  | TEXBT10220 | 182  | TEXBT80100 | 182  | TEXZP50040 | 181 |
| TC6A10100  | 97   | TCSOI4160   | 76   | TEXBP30035 | 180  | TEXBT10240 | 182  | TEXBT80120 | 182  | TEXZP50045 | 181 |
| TC6A10120  | 97   | TCSOI6140   | 76   | TEXBP30040 | 180  | TEXBT30016 | 182  | TEXBT80140 | 182  | TEXZP50050 | 181 |
| TC6A10140  | 97   | TCSOI6160   | 76   | TEXBP30045 | 180  | TEXBT30020 | 182  | TEXBT80160 | 182  | TEXZP50060 | 181 |
| TC6A10160  | 97   | TCSOI6200   | 76   | TEXBP30050 | 180  | TEXBT30025 | 182  | TEXBT80180 | 182  | TEXZP50070 | 181 |
| TC6A10200  | 97   | TCSOI6240   | 76   | TEXBP35012 | 180  | TEXBT30030 | 182  | TEXBT80200 | 182  | TEXZP50080 | 181 |
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| TC6E08120  | 97   | TCSPO6040   | 98   | TEXBP35020 | 180  | TEXBT35012 | 182  | TEXBT80260 | 182  | TEXZP50110 | 181 |
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| TC6E10140  | 97   | TCSPEP06040 | 98   | TEXBP35035 | 180  | TEXBT35025 | 182  | TEXBT80320 | 182  | TEXZP60045 | 181 |
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| TC6E10200  | 97   | TDR2572032  | 162  | TEXBP35045 | 180  | TEXBT35035 | 182  | TEXBT80360 | 182  | TEXZP60060 | 181 |
| TCA205030  | 98   | TDR2572038  | 162  | TEXBP35050 | 180  | TEXBT35040 | 182  | TEXBT80380 | 182  | TEXZP60070 | 181 |
| TCA206040  | 98   | TE25050     | 109  | TEXBP40012 | 180  | TEXBT35045 | 182  | TEXBT80400 | 182  | TEXZP60080 | 181 |
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| TCCA05030  | 99   | TECBT10180  | 185  | TEXBP40035 | 180  | TEXBT40035 | 182  | TEXZP30010 | 181  | TEXZT30020 | 183 |
| TCCA05035  | 99   | TECBT10200  | 185  | TEXBP40040 | 180  | TEXBT40040 | 182  | TEXZP30012 | 181  | TEXZT30025 | 183 |
| TCCA05050  | 99   | TECBT10220  | 185  | TEXBP40045 | 180  | TEXBT40045 | 182  | TEXZP30015 | 181  | TEXZT30030 | 183 |
| TCCA06035  | 99   | TECBT10240  | 185  | TEXBP40050 | 180  | TEXBT40050 | 182  | TEXZP30016 | 181  | TEXZT30035 | 183 |
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| TCCA06070  | 99   | TECBT60080  | 185  | TEXBP40080 | 180  | TEXBT45025 | 182  | TEXZP30035 | 181  | TEXZT35020 | 183 |
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| TCCA08100  | 99   | TECBT60160  | 185  | TEXBP45030 | 180  | TEXBT45045 | 182  | TEXZP35012 | 181  | TEXZT35040 | 183 |
| TCCA08120  | 99   | TECBT60180  | 185  | TEXBP45035 | 180  | TEXBT45050 | 182  | TEXZP35015 | 181  | TEXZT35045 | 183 |
| TCCA08140  | 99   | TECBT60200  | 185  | TEXBP45040 | 180  | TEXBT45060 | 182  | TEXZP35016 | 181  | TEXZT35050 | 183 |
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|             |      |             |      | VD93310030 | 223  | VHENOM08    | 68   | VRENO4808  | 118  | VT8242025 | 173 |

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| VT8242032  | 173  | VTB10090    | 194  | VTEXZP40030 | 181  | VTppo30020 | 189  | VTPT050060 | 192  |
| VT8248019  | 173  | VTB10100    | 194  | VTEXZP40035 | 181  | VTppo30025 | 189  | VTPT050070 | 192  |
| VT8248025  | 173  | VTBTS08     | 101  | VTEXZP40040 | 181  | VTppo30030 | 189  | VTPT050080 | 192  |
| VT8248032  | 173  | VTBTS10     | 101  | VTEXZP40045 | 181  | VTppo30040 | 189  | VTPT050090 | 192  |
| VT8248038  | 173  | VTBTS12     | 101  | VTEXZP40050 | 181  | VTppo35016 | 189  | VTPT060060 | 192  |
| VT8255032  | 173  | VTCCA05025  | 99   | VTEXZP40060 | 181  | VTppo35020 | 189  | VTPT060070 | 192  |
| VT8255038  | 173  | VTCCA05030  | 99   | VTEXZP45030 | 181  | VTppo35025 | 189  | VTPT060080 | 192  |
| VT9650306Z | 231  | VTCCA05035  | 99   | VTEXZP45035 | 181  | VTppo35030 | 189  | VTREP05050 | 197  |
| VT9650310Z | 231  | VTCCA05050  | 99   | VTEXZP45040 | 181  | VTppo35035 | 189  | VTREP07050 | 197  |
| VT9650408Z | 231  | VTCCA06035  | 99   | VTEXZP45045 | 181  | VTppo35040 | 189  | VTREZ05050 | 197  |
| VT9650410Z | 231  | VTCCA06040  | 99   | VTEXZP45050 | 181  | VTppo35050 | 189  | VTREZ07050 | 197  |
| VT9650416Z | 231  | VTCCA06050  | 99   | VTEXZP45060 | 181  | VTppo40016 | 189  | VTUMAM03   | 238  |
| VT9650420Z | 231  | VTCCA06060  | 99   | VTEXZP45070 | 181  | VTppo40020 | 189  | VTUMAM04   | 238  |
| VT9650425Z | 231  | VTCCA06070  | 99   | VTEXZP50030 | 181  | VTppo40025 | 189  | VTUMAM05   | 238  |
| VT9650430Z | 231  | VTCCA08060  | 99   | VTEXZP50035 | 181  | VTppo40030 | 189  | VTUMAM06   | 238  |
| VT9650510Z | 231  | VTCCA08080  | 99   | VTEXZP50040 | 181  | VTppo40035 | 189  | VTUMAM08   | 238  |
| VT9650516Z | 231  | VTEXA250050 | 183  | VTEXZP50045 | 181  | VTppo40040 | 189  | VTUMAM10   | 238  |
| VT9650520Z | 231  | VTEXA250060 | 183  | VTEXZP50050 | 181  | VTppo40045 | 189  | VTUMAM12   | 238  |
| VT9650530Z | 231  | VTEXA250070 | 183  | VTEXZP50060 | 181  | VTppo40050 | 189  | ZP06C40    | 72   |
| VT9650540Z | 231  | VTEXBP30016 | 180  | VTEXZP50070 | 181  | VTppo40060 | 189  | ZP08C15    | 72   |
| VT9650610Z | 231  | VTEXBP30020 | 180  | VTEXZP50080 | 181  | VTppo45030 | 189  | ZP08C45    | 72   |
| VT9650616Z | 231  | VTEXBP30025 | 180  | VTEXZP60050 | 181  | VTppo45035 | 189  | ZPI0C50    | 72   |
| VT9650620Z | 231  | VTEXBP30030 | 180  | VTEXZP60060 | 181  | VTppo45040 | 189  | ZPI0C80    | 72   |
| VT9650630Z | 231  | VTEXBP30040 | 180  | VTEXZP60070 | 181  | VTppo45045 | 189  | ZPI2C15    | 72   |
| VT9850306Z | 230  | VTEXBP35016 | 180  | VTEXZP60080 | 181  | VTppo45050 | 189  | ZPI2C65    | 72   |
| VT9850310Z | 230  | VTEXBP35020 | 180  | VTNUXA08080 | 95   | VTppo45060 | 189  | ZT06L10    | 72   |
| VT9850316Z | 230  | VTEXBP35025 | 180  | VTNUXA08100 | 95   | VTppo45070 | 189  | ZT06L30    | 72   |
| VT9850320Z | 230  | VTEXBP35030 | 180  | VTNUXA10080 | 95   | VTppo50030 | 189  | ZT08L15    | 72   |
| VT9850330Z | 230  | VTEXBP35035 | 180  | VTNUXA10100 | 95   | VTppo50035 | 189  | ZT08L35    | 72   |
| VT9850406Z | 230  | VTEXBP35040 | 180  | VTNuxe08080 | 95   | VTppo50040 | 189  | ZT08L45    | 72   |
| VT9850408Z | 230  | VTEXBP35050 | 180  | VTNuxe08100 | 95   | VTppo50050 | 189  | ZT10L10    | 72   |
| VT9850410Z | 230  | VTEXBP40025 | 180  | VTNuxe10080 | 95   | VTppo50060 | 189  | ZT10L30    | 72   |
| VT9850416Z | 230  | VTEXBP40030 | 180  | VTNuxe10100 | 95   | VTppo50070 | 189  | ZT10L50    | 72   |
| VT9850420Z | 230  | VTEXBP40035 | 180  | VTPOZ30025  | 191  | VTppo50080 | 189  | ZT10L80    | 72   |
| VT9850506Z | 230  | VTEXBP40040 | 180  | VTPOZ30030  | 191  | VTppo50090 | 189  | ZT12L15    | 72   |
| VT9850510Z | 230  | VTEXBP40045 | 180  | VTPOZ35016  | 191  | VTppo60040 | 189  | ZT12L45    | 72   |
| VT9850512Z | 230  | VTEXBP40050 | 180  | VTPOZ35020  | 191  | VTppo60050 | 189  | ZT12L65    | 72   |
| VT9850516Z | 230  | VTEXBP40060 | 180  | VTPOZ35025  | 191  | VTppo60060 | 189  |            |      |
| VT9850520Z | 230  | VTEXBP45030 | 180  | VTPOZ35030  | 191  | VTppo60070 | 189  |            |      |
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| VT9850540Z | 230  | VTEXBP45040 | 180  | VTPOZ35040  | 191  | VTppots05  | 101  |            |      |
| VT9850550Z | 230  | VTEXBP45045 | 180  | VTPOZ35050  | 191  | VTppots06  | 101  |            |      |
| VT9850610Z | 230  | VTEXBP45050 | 180  | VTPOZ40016  | 191  | VTppots08  | 101  |            |      |
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| VT9850616Z | 230  | VTEXBP45070 | 180  | VTPOZ40025  | 191  | VTPT030030 | 192  |            |      |
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| VTALAM06   | 69   | VTEXBP50070 | 180  | VTPOZ40060  | 191  | VTPT035050 | 192  |            |      |
| VTALAM08   | 69   | VTEXBP50080 | 180  | VTPOZ45030  | 191  | VTPT040020 | 192  |            |      |
| VTALAM10   | 69   | VTEXBP50090 | 180  | VTPOZ45035  | 191  | VTPT040025 | 192  |            |      |
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| VTB06060   | 194  | VTEXZP30016 | 181  | VTPOZ45070  | 191  | VTPT040050 | 192  |            |      |
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| VTB07060   | 194  | VTEXZP30025 | 181  | VTPOZ50035  | 191  | VTPT045030 | 192  |            |      |
| VTB07070   | 194  | VTEXZP30030 | 181  | VTPOZ50040  | 191  | VTPT045035 | 192  |            |      |
| VTB07080   | 194  | VTEXZP30040 | 181  | VTPOZ50050  | 191  | VTPT045040 | 192  |            |      |
| VTB08050   | 194  | VTEXZP35016 | 181  | VTPOZ50060  | 191  | VTPT045045 | 192  |            |      |
| VTB08060   | 194  | VTEXZP35020 | 181  | VTPOZ50070  | 191  | VTPT045050 | 192  |            |      |
| VTB08070   | 194  | VTEXZP35025 | 181  | VTPOZ50080  | 191  | VTPT045060 | 192  |            |      |
| VTB08080   | 194  | VTEXZP35030 | 181  | VTPOZ50090  | 191  | VTPT045070 | 192  |            |      |
| VTB08090   | 194  | VTEXZP35035 | 181  | VTPOZ60060  | 191  | VTPT050030 | 192  |            |      |
| VTB08100   | 194  | VTEXZP35040 | 181  | VTPOZ60070  | 191  | VTPT050035 | 192  |            |      |
| VTB10070   | 194  | VTEXZP35050 | 181  | VTPOZ60080  | 191  | VTPT050040 | 192  |            |      |
| VTB10080   | 194  | VTEXZP40025 | 181  | VTppo30016  | 189  | VTPT050050 | 192  |            |      |









Lined area for notes with horizontal dashed lines.

A  
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