NEW DIMENSIONS 2018

NEW PRODUCTS

NEW!

Discover our innovative screws

- HECO®-SC-S winged self-drilling fastener
- HECO®-WR special full threaded screw
- HECO®-WS self drilling dowel
- HECO®-WB threaded rod bar
- HECO-TOPIX® flange head XL
PRODUCT INFORMATION

- Fixing timber to steel and aluminium substructures in one step
- High corrosion resistance thanks to stainless steel
- Hardened, zinc-plated drill point
- The ensuring of the correct pre-drill diameter allows an ideal fastening in the substructure
- Increased diameter of the timber bore hole: reduced problems through timber swelling and shrinking
- No discolouration of the timber thanks to stainless steel
- Optimum contact pressure
- Quick, secure and efficient installation
- Countersunk head anchorage in hard- and softwoods

Outdoor connections of timber on metal structures

The countersunk head of HECO®-SC-S enables efficient anchorage both in hard- and softwoods
QUICK MOUNTING AND OPTIMUM FIXING

The use of the HECO®-SC-S winged self-drilling fasteners provides comprehensive advantages for long-lasting outdoor fixing of timber to metal profiles.

The HECO®-SC-S winged self-drilling fasteners are used to fix planks, boards and decking to steel and aluminium substruc-
tures. Rapid installation is ensured because the fastener penetrates the timber first and then the metal in a single operation. Metal thicknesses of up to 5 mm can be handled self-drilling and -tapping, providing optimum fixing every time. The countersunk head finishes flush in both hard and soft wood and as the fasteners are produced in stainless steel there is no discolouration.

PRODUCT RANGE

HECO®-SC-S winged self-drilling screw, countersunk head, PH-Drive/T-Drive, full/part threaded, stainless steel A2, bright zinc plated

<table>
<thead>
<tr>
<th>Size</th>
<th>Article No.</th>
<th>Head diameter [mm]</th>
<th>Drilling capacity [mm]</th>
<th>Clamping strength t₀ [mm]</th>
<th>Recess</th>
<th>Packing unit [pcs.]</th>
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<td>T-30</td>
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</table>

t₀ = Thickness of the complete decking (timber + metal)
PRODUCT INFORMATION

- Very high performance
- Insertion parallel to the grain possible too
- No decline of load bearing capacity from 90° to 45° relative to the grain
- Installation without pre-drilling
- Low splitting tendency: small edge and intervening spacing
- Reduction of time and costs
- Wide range of applications
- High corrosion resistance (Durocoat)
- CE-marking based on ETA-12/0062

HECO®-WR

More power in structural timberwork

Countsunk head

Full threaded

Surface Durocoat

Half tip
EFFICIENT AND RELIABLE CONNECTIONS FOR HIGH-PERFORMANCE JOINTS AND REINFORCEMENTS IN STRUCTURAL TIMBERWORK.

Structural timber elements are joined with the HECO®-WR (Wood Reinforcement) special fastener in one single operation, without pre-drilling.

Applications which have been impossible to date can also be implemented with the HECO®-WR system. This enables a variety of familiar fasteners to be replaced. Besides simplifying material management, this also results in inventory savings.

APPLICATION EXAMPLES

HECO®-WR Special fastener, countersunk head, T-Drive, full threaded with half tip, Durocoat

<table>
<thead>
<tr>
<th>Size</th>
<th>Article No.</th>
<th>Head diameter [mm]</th>
<th>Material</th>
<th>Surface</th>
<th>Recess</th>
<th>Packing unit [pcs.]</th>
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</tbody>
</table>

T = Carbon steel
**PRODUCT INFORMATION**

- Easy to use without pre-drilling of steel or timbers
- Self drilling due to special drilling tip
- Can be used for many applications
- Simple, reliable calculation according to EN 14592
- High yield moment $M_{yu} = 31.93$ Nm
- Dismountable
- Fastening via the thread underneath the head
- High fire resistance
- Form-fitting direct fastening results in maximum fitting accuracy
- Aesthetically pleasing connection without destruction of the rear surface of the timber

**HECO®-WS**

**Enhanced efficiency in structural timberwork**

- Cylindric countersunk head
- Thread beneath the head
- Surface bright zinc plated
- Self-drilling dowel with special drilling point
PRODUCE MULTIPLE-SHEAR STEEL-TIMBER JOINTS MORE EASILY AND ECONOMICALLY USING THE HECO®-WS SYSTEM

You can assemble high-quality steel-timber joints using the HECO®-WS system. Low equipment costs make the new WS system a very interesting prospect even for small and medium-sized businesses. The dowels are inserted in the timber and through the steel plates in one single, time-saving operation without pre-drilling. 3 steel plates up to 5 mm thick or 1 steel plate with up to 10 mm thick can be penetrated. The surface of the timber on the opposite side does not get damaged. So far producing joints for framework structures has been a complicated process. The new HECO®-WS system reduces the procedure to a few operating steps.

INSTALLATION OF A FRAMEWORK JOINT

1. Fit steel plate
2. Align and fix in position
3. Insert the dowel

APPLICATION EXAMPLES

- Post and rail joint
- Fixed column base plate
- Assembly joint/repairs
- Supporting joint

PRODUCT RANGE

HECO®-WS steel dowel, cylindric countersunk head, T-Drive, secondary thread, bright zinc plated

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</table>

T = Carbon steel
**PRODUCT INFORMATION**

- Lateral tensile reinforcement without gluing
- Time saving of up to 50%
- No gluing authorisation requested
- Without temperature requirements
- Easy and reliable calculation
- High tensile strength of 800 N/mm²
- Individually cut to length
- Easy storage
- Insertion sleeve for countersinking
- Diameters [mm]: 16.0, 20.0
- Length [mm]: 3000, individually cut to length
- Approved and monitored product according to Z-9.1-777

**HECO®-WB**

Simple solution for lateral tensile reinforcements

- **Headless threaded rod**
- **Thread geometry DIN 7998**
- **Surface bright zinc plated, steel, hardened**
THE FASTENING SYSTEM FOR ECONOMICAL AND SECURE REINFORCEMENTS FOR GLULAM TIMBER STRUCTURES

The HECO®-WB system, a headless threaded rod, can be implemented in various applications such as transverse joints, penetrations, notching, connections, double-pitch roof purlins with arched, purlin, double-pitch roof purlin, etc. The forces are transmitted solely through the thread indentations – time-consuming application of adhesives is eliminated. The fully countersunk, invisible threaded bars mean that subsequent roof assembly is not obstructed.

MONTAGE

Pilot drilling with box column type drill
Cut threaded bar to the required length using metal saw or angle grinder
Install the threaded bar using a drill with high torque

HECO®-WB countersink directly with insertion sleeve
Release insertion sleeve with ratchet
Cover hole with end-grained timber plug

ACCESSORIES

1. HECO-WB insertion sleeve Ø 16,0 (Art. no. 53355)
2. HECO-WB insertion sleeve Ø 20,0 (Art. no. 53356)

APPLICATION EXAMPLES

Transverse joints
Penetrations
Notching
Connections
Main/secondary beams
Double-pitch roof purlin
HECO-TOPIX® Flange head XL

Self-tapping screws for connections in wood and manmade timber

PRODUCT INFORMATION

- Higher load transmission due to the increased clamping surface of the head
- Quick and easy to use
- Friction free and easy insertion
- Reduced splitting tendency
- CE-marking based on ETA-approval

Flange head (head)

- Larger head diameter (22.5 mm)
- More contact pressure
- Higher load transmission

„HECO-TOPIX® tip with milling ribs“

- Pre-drilling of the wood due to the milling ribs at the tip
- Reduced splitting tendency
- Small installation torques
THE SCREW FOR EXTREMELY HIGH LOAD TRANSMISSIONS

The new HECO-TOPIX-Version with its increased flange head enables the transmission of extremely high loads.

APPLICATION EXAMPLES

0° insertion of timber connections

Wall connections in timber framing

Rafter-purlin joints and section restraints

PRODUCT RANGE

HECO-TOPIX® Flange head XL, T-Drive, part threaded, steel, hardened, bright zinc plated

<table>
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<th>Article No.</th>
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Safe and secure

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