

OUTDOOR

Solutions for designing and building in outdoor environments



 **rothoblaas**

Solutions for Building Technology

EN 1995-1-1 ENVIRONMENT SERVICE CLASSES

CLASS 1

climate: 20°C / 65%
humidity: $u \approx 12\%$
all internal rooms



CLASS 2

climate: 20°C / 55%
humidity: $u \approx 18\%$
elements protected from
direct exposure to weather



CLASS 3

climate: more humid than class 2
humidity: $u > 20\%$
"wet" elements

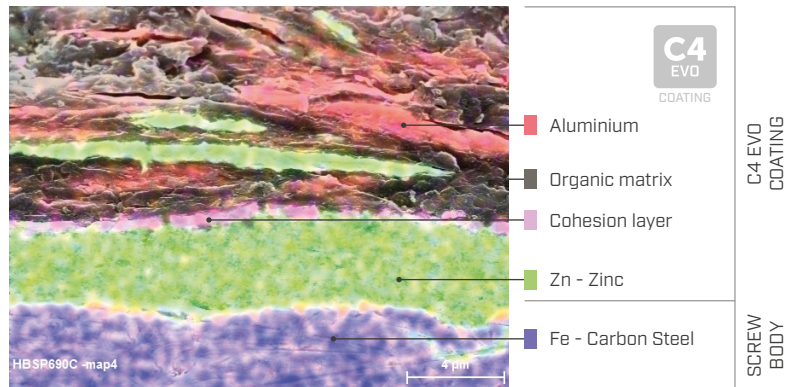


The work is inserted in a context which cannot be ignored and with which it interacts: understanding the location and use of the timber cladding is fundamental for selecting appropriate fastenings that guarantee performance over time.

C4 EVO COATING

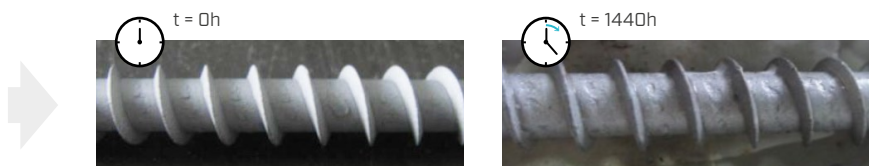
Is a multilayer coating composed of:

- An external functional layer of epoxy matrix with aluminium flakes of around 15-20 μm , which gives the coating optimum resistance to mechanical and thermal stresses. The aluminium flakes also serve, when required, as sacrificial cathodes for the metal base of the screw.
- A central binding layer for the external functional layer.
- A internal layer of around 4 μm zinc microns which acts as an additional layer of corrosion resistance.



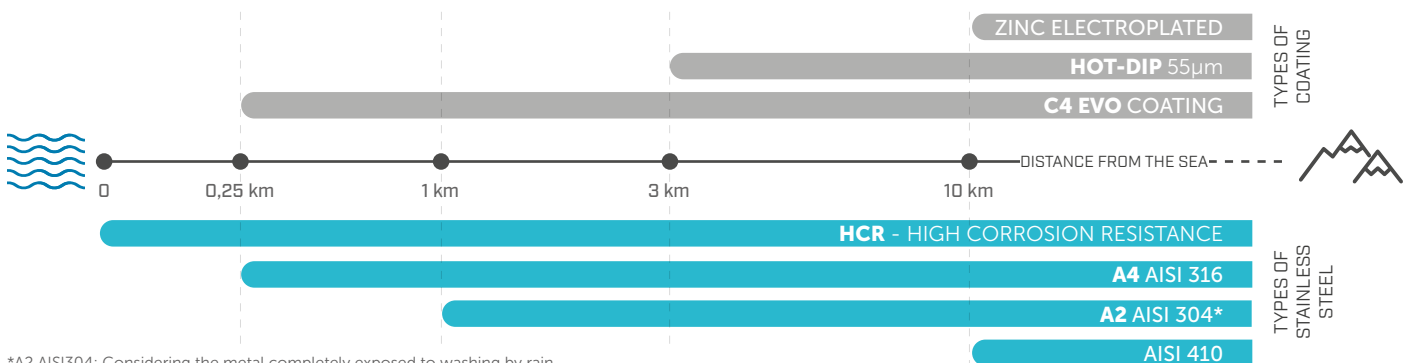
SALT SPRAY UNI EN ISO 9227:2012

Corrosion tests in artificial atmospheres
Salt spray tests



COATINGS vs STAINLESS STEELS

Comparison of atmospheric corrosion resistance between different types of zinc-based coating and different types of stainless steel used in timber screws. Considering only the influence of chlorides (salt) and without a cleaning regime.



*A2 AISI304: Considering the metal completely exposed to washing by rain.



NAG

LEVELLING PADS



| | |
|-------------------|---|
| FOCUS | the EPDM material guarantees high strength, does not deform and ensures UV resistance |
| THICKNESS | 2,0 3,0 5,0 mm |
| DIMENSIONS | 60 x 60 mm |
| USE | substructure levelling |



GRANULO

GRANULAR RUBBER SUBSTRATE



| | |
|-------------------|---|
| FOCUS | water-permeability and vibration-dampening |
| THICKNESS | 4,0 6,0 8,0 10,0 mm |
| DIMENSIONS | strip, mat, roll, PAD |
| USE | substrate for substructures in wood, aluminium, WPC and PVC |



JFA

ADJUSTABLE SUPPORT FOR TERRACES

A2
AISI 304



| | |
|------------|--|
| FOCUS | can be adjusted from above and below |
| HEIGHT | 40 60 80 mm |
| DIMENSIONS | Ø8 mm |
| USE | raising and levelling of the structure |

SUPPORT

ADJUSTABLE SUPPORT FOR TERRACES



| | |
|----------|--|
| FOCUS | extreme versatility in levelling |
| HEIGHT | from 22 to 1020 mm |
| STRENGTH | from 400 to 800 kg |
| USE | raising and levelling of the structure |

ALU TERRACE

ALUMINIUM PROFILE FOR PATIOS



| | |
|-----------|---------------------------------------|
| FOCUS | excellent durability and strength |
| SECTIONS | 53 x 30 x 2200 mm 60 x 50 x 2200 mm |
| THICKNESS | 1,8 2,2 mm |
| USE | patio substructure |

TERRA BAND UV

BUTYL ADHESIVE TAPE



BUTYL
BASED



| | |
|------------|--|
| FOCUS | protection against water and UV radiation |
| DIMENSIONS | 75 100 200 400 mm x 10 m |
| MATERIAL | butyl-based compound coated with black aluminium separating film |
| USE | decks and facades |

KKT COLOR A4 | AISI316

CONE-SHAPED CONCEALED HEAD SCREW



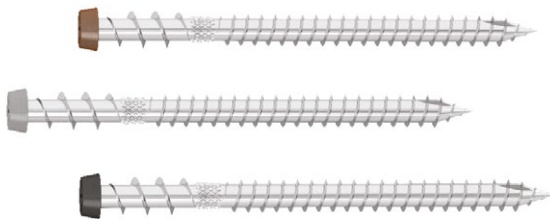
BIT INCLUDED



EN 14592



CALCULATION
TOOL



| | |
|----------|-------------------------------|
| FOCUS | excellent grip |
| HEAD | conical, coloured countersunk |
| DIAMETER | 5,0 mm |
| LENGTH | from 40 to 70 mm |

SCI

COUNTERSUNK SCREW



BIT INCLUDED



EN 14592

version
A2 | AISI305

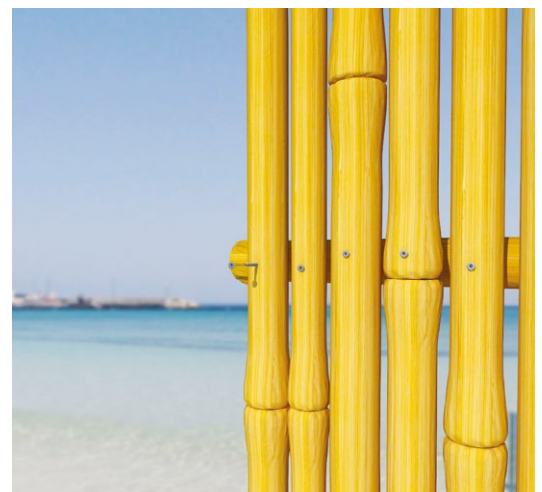


SCI A2 | AISI305



SCI A4 | AISI316

| | |
|----------|---|
| FOCUS | recessed notch, asymmetrical thread, elongated cutter |
| HEAD | countersunk with ribs |
| DIAMETER | from 3,5 to 8,0 mm |
| LENGTH | from 25 to 320 mm |



KKZ A2 | AISI304

COUNTERSUNK CYLINDRICAL HEAD SCREW

A2
AISI 304

BIT INCLUDED

CE
EN 14592



| | |
|----------|----------------------------------|
| FOCUS | exceptional hardwood perforation |
| HEAD | cylindrical, countersunk |
| DIAMETER | 5,0 mm |
| LENGTH | from 50 to 70 mm |

EWS

CONE-SHAPED CONCEALED HEAD SCREW

A2
AISI 305

410
AISI

BIT INCLUDED

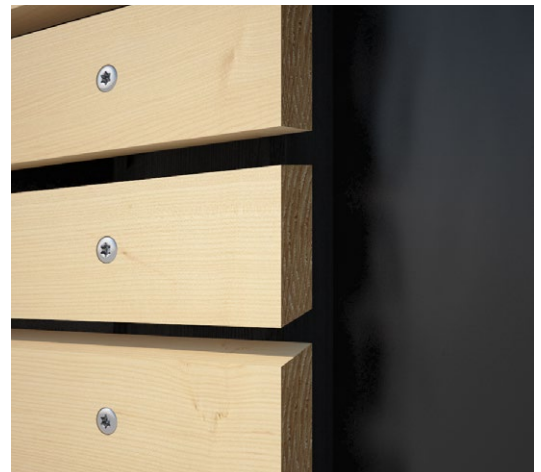
CE
EN 14592



EWS A2 | AISI305



EWS AISI 410



| | |
|----------|----------------------------------|
| FOCUS | increased diameter for hardwoods |
| HEAD | convex with ribs |
| DIAMETER | 5,0 mm |
| LENGTH | from 50 to 80 mm |

KKF AISI410

PAN HEAD SCREW

410
AISI

BIT INCLUDED

CE
ETA 11/0030



| | |
|----------|---|
| FOCUS | excellent versatility of use in aggressive environments |
| HEAD | pan head |
| DIAMETER | from 4,0 to 6,0 mm |
| LENGTH | from 20 to 120 mm |

Discover the complete range of **SCREWS AND CONNECTORS FOR TIMBER** on our website or request the catalogue from your trusted agent. www.rothoblaas.com



SHS

SMALL HEAD SCREW

A2
AISI 305

410
AISI

BIT INCLUDED



SHS A2 | AISI305



SHS AISI 410



| | |
|----------|--------------------------|
| FOCUS | fine thread |
| HEAD | 60° taper with mini ribs |
| DIAMETER | from 3,5 to 5,0 mm |
| LENGTH | from 30 to 70 mm |

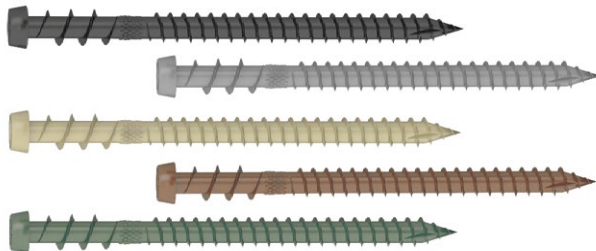
KKT COLOR

CONE-SHAPED CONCEALED HEAD SCREW

BIT INCLUDED

CE
EN 14592

CALCULATION
TOOL

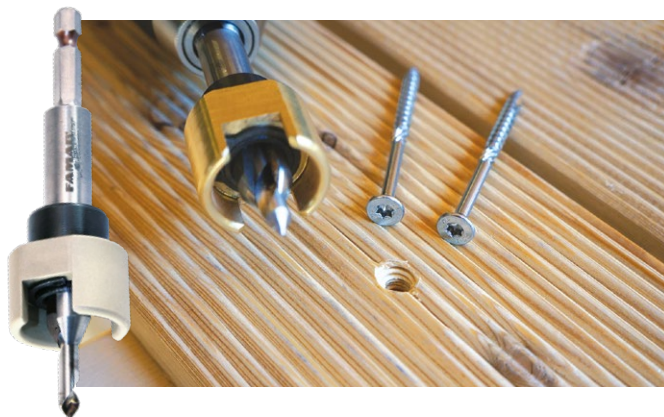


| | |
|----------|-------------------------------|
| FOCUS | complete range of colours |
| HEAD | conical, coloured countersunk |
| DIAMETER | 5,0 6,0 mm |
| LENGTH | from 40 to 120 mm |



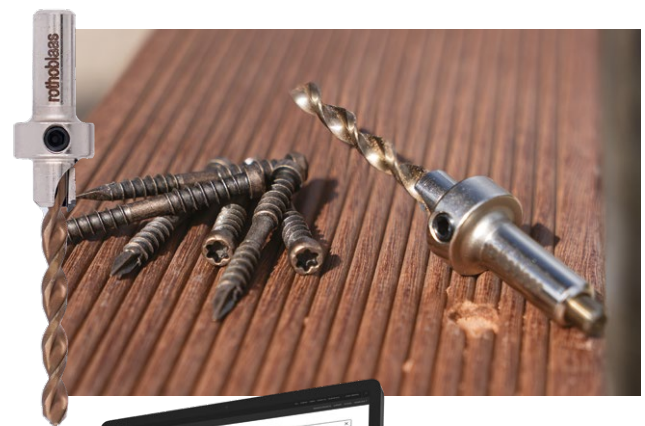
DRILL STOP

SET OF DRILL BITS AND COUNTERBORE CUTTER WITH SWIVEL DEPTH STOP



BROAD

COUNTERBORE CUTTER FOR KKT, KKZ, KKA



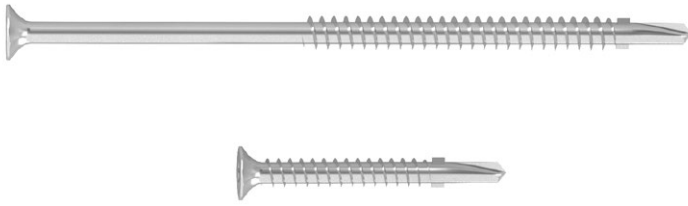
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Discover how easy it is to find the best solutions for your projects. www.rothoblaas.com



SBS A2 | AISI304

SELF-DRILLING TIMBER-TO-METAL SCREW

A2
AISI 304

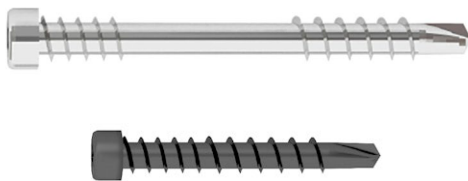


| | |
|----------|---|
| FOCUS | self-perforating tip with protective fins |
| HEAD | countersunk with under-head ribs |
| DIAMETER | from 4,8 to 6,3 mm |
| LENGTH | from 45 to 120 mm |

KKA AISI410 | KKA COLOR

SELF-DRILLING SCREW TIMBER-TO-TIMBER | TIMBER-TO-ALUMINIUM SELF-DRILLING SCREW FOR ALUMINIUM

410
AISI



| | |
|----------|---|
| FOCUS | self-drilling timber-to-aluminium self-drilling aluminium |
| HEAD | cylindrical, countersunk |
| DIAMETER | 4,0 5,0 mm |
| LENGTH | from 20 to 50 mm |



FLAT

CONNECTOR FOR DECKING



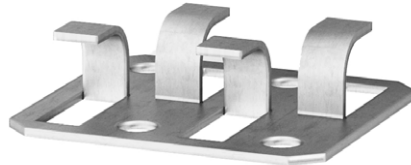
| | |
|------------------|---|
| FOCUS | extremely precise joints |
| MATERIAL | aluminium with organic anti-corrosion coating |
| BOARDS | symmetrical grooving |
| JOINTS | 7,0 mm |
| FASTENERS | KKT COLOR, KKA COLOR |

GAP

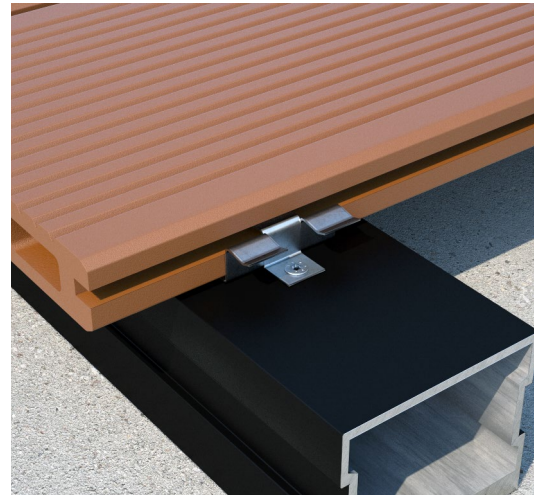
CONNECTOR FOR DECKING



GAP 3



GAP 4



| | |
|------------------|--|
| FOCUS | narrow joints |
| MATERIAL | GAP 3: A2 AISI304 - GAP 4: zinc-plated steel |
| BOARDS | symmetrical grooving |
| JOINTS | from 3,0 to 5,0 mm |
| FASTENERS | SCI, HTS |

TERRALOCK

CONNECTOR FOR DECKING



| | |
|------------------|--|
| FOCUS | extremely versatile joints and grooves |
| COATING | aluminium coating, grey, black, brown |
| BOARDS | without grooving |
| JOINTS | from 2,0 to 10,0 mm |
| FASTENERS | KKT, KKA, KKF |

TRASPIR EVO UV 210

HIGHLY BREATHABLE MONOLITHIC MEMBRANE
RESISTANT TO UV RAYS

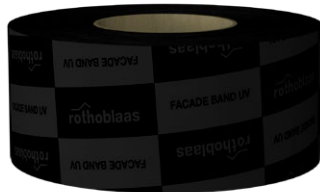


| | |
|--------------------|-------------------------|
| FOCUS | integrated double tape |
| MATERIAL | monolithic, acrylic mix |
| DIMENSIONS | 1,5 x 50 m |
| MASS PER UNIT AREA | 210 g/m ² |



FACADE BAND UV

UNIVERSAL SINGLE-SIDED TAPE, RESISTANT TO
UV RAYS



| | |
|------------|---|
| FOCUS | flexible and adaptable surface |
| DIMENSIONS | 60 mm x 20 m |
| MATERIAL | polyethylene with reinforcing mesh and acrylic adhesive |
| USE | façade |



AIRTIGHTNESS AND WATERPROOFING are synonyms of building quality, durability and housing comfort. Discover our solutions on our website or request the catalogue from your trusted agent.
www.rothoblaas.com



R10-R20-R30

ADJUSTABLE POST BASE

S235
DAC COAT



CE
ETA 10/0422



| | |
|-----------|----------------------------------|
| FOCUS | adjustable height after assembly |
| COLUMNS | from 80 x 80 mm to 240 x 240 mm |
| HEIGHT | adjustable from 140 to 250 mm |
| FASTENERS | HBS PLATE EVO, SKR, VIN-FIX |

P10 - P20

EMBEDDED TUBULAR POST BASE

S235
DAC COAT

S235
HOT DIP

CE
ETA 10/0422



| | |
|-----------|---------------------------------|
| FOCUS | raised structures |
| COLUMNS | from 70 x 70 mm to 160 x 160 mm |
| HEIGHT | 300 500 mm |
| FASTENERS | HBS PLATE EVO, XEPOX |

S50

HIGHLY-RESISTANT POST BASE

S235
HOT DIP

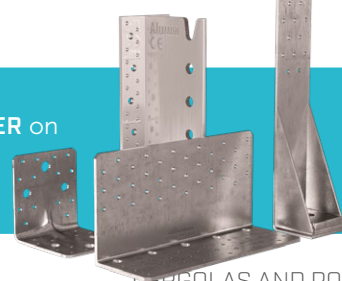
CE
ETA 10/0422



| | |
|-----------|----------------------------------|
| FOCUS | exceptional compression strength |
| COLUMNS | starting from 120 x 120 mm |
| HEIGHT | 120 180 240 mm |
| FASTENERS | HBS PLATE EVO, SKR, VIN-FIX |

Discover the complete range of **PLATES AND CONNECTORS FOR TIMBER** on our website or request the catalogue from your trusted agent.

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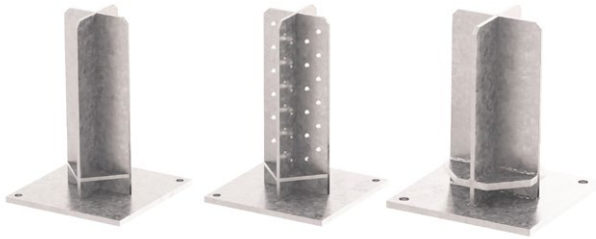
X10

CROSS-SHAPED POST BASE

S235
HOT DIP



CE
ETA 10/0422



| | |
|-----------|-----------------------------------|
| FOCUS | concealed joints |
| COLUMNS | from 120 x 120 mm to 240 x 240 mm |
| HEIGHT | adjustable from 50 to 200 mm |
| FASTENERS | SBD, STA, XEPOX, VIN-FIX |

R40

ADJUSTABLE POST BASE

A2
AISI 304

S235
DAC COAT

CE
ETA 10/0422



| | |
|-----------|---------------------------------|
| FOCUS | adjustable height |
| COLUMNS | from 70 x 70 mm to 200 x 200 mm |
| HEIGHT | adjustable from 50 to 200 mm |
| FASTENERS | HBS PLATE EVO, SKR, VIN-FIX |

F70

"T" SHAPED POST BASE

S235
HOT DIP



CE
ETA 10/0422



| | |
|-----------|---------------------------------|
| FOCUS | concealed joints |
| COLUMNS | from 70 x 70 mm to 240 x 240 mm |
| HEIGHT | from 150 to 300 mm |
| FASTENERS | SBD, STA, SKR, VIN-FIX |

LOCK T EVO TIMBER

OUTDOOR CONCEALED HOOK TIMBER-TO-TIMBER CONNECTOR



| | |
|-----------------|---|
| FOCUS | removable joints for very aggressive environments |
| TIMBER SECTIONS | from 53 x 80 mm to 160 x 280 mm |
| STRENGTH | $R_{v,k}$ up to 65 kN |
| FASTENERS | HBS PLATE EVO, KKF AISI410, LBS EVO |

LOCK T TIMBER

CONCEALED HOOK TIMBER-TO-TIMBER CONNECTOR



| | |
|-----------------|---------------------------------|
| FOCUS | joints that can be disassembled |
| TIMBER SECTIONS | from 35 x 80 mm to 200 x 440 mm |
| STRENGTH | $R_{v,k}$ up to 100 kN |
| FASTENERS | LBS |

LOCK C CONCRETE

CONCEALED HOOK TIMBER-TO-CONCRETE CONNECTOR



| | |
|-----------------|--|
| FOCUS | joints for concrete that can be disassembled |
| TIMBER SECTIONS | from 70 x 120 mm to 200 x 440 mm |
| STRENGTH | $R_{v,k}$ up to 100 kN |
| FASTENERS | LBS, SKS |

ALUMINI

CONCEALED BRACKETS WITHOUT HOLES



| | |
|-----------------|---------------------------------|
| FOCUS | concealed joints |
| TIMBER SECTIONS | from 45 x 70 mm to 140 x 280 mm |
| STRENGTH | $R_{v,k}$ up to 36 kN |
| FASTENERS | HBS PLATE EVO, SBD, STA, SKS |

ALUMIDI

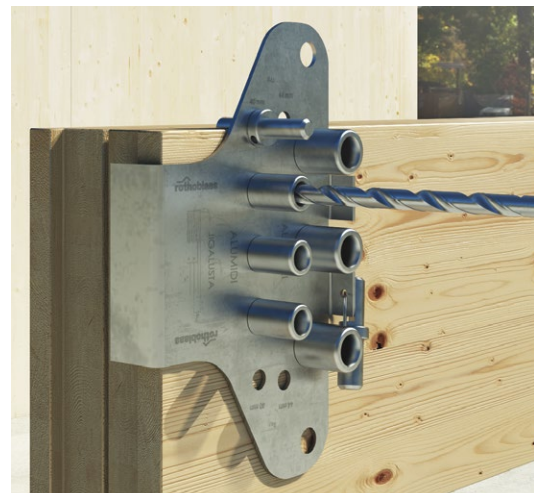
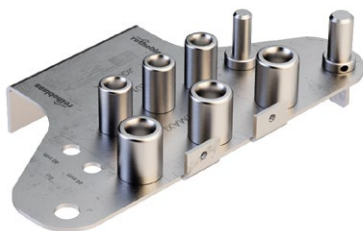
CONCEALED BRACKETS WITH AND WITHOUT HOLES



| | |
|-----------------|----------------------------------|
| FOCUS | concealed joints |
| TIMBER SECTIONS | from 80 x 100 mm to 200 x 520 mm |
| STRENGTH | $R_{v,k}$ up to 150 kN |
| FASTENERS | LBA, LBS, SBD, STA, SKR |

JIG ALU STA

DRILLING TEMPLATE FOR ALUMIDI AND ALUMAXI



See also:

STA
SMOOTH DOWEL

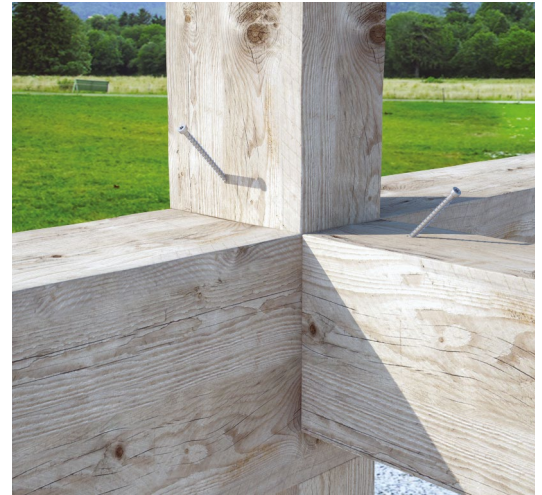


VGZ EVO

FULL THREADED SCREW
WITH CYLINDRICAL HEAD



Better Living certification
CBL TS001-21



| | |
|----------|--------------------------|
| FOCUS | corrosiveness class C4 |
| HEAD | cylindrical, countersunk |
| DIAMETER | 5,3 5,6 7,0 9,0 mm |
| LENGTH | from 80 to 360 mm |

DISC FLAT

REMOVABLE CONCEALED CONNECTOR



| | |
|-----------------|--|
| FOCUS | universal joints |
| TIMBER SECTIONS | from 100 x 100 mm to 280 x 280 mm |
| STRENGTH | R_v over 60 kN, R_{ax} over 100 kN |
| FASTENERS | LBS, KOS |

BSA | BSI

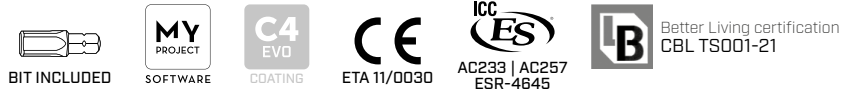
METAL HANGERS WITH EXTERNAL AND INTERNAL WINGS



| | |
|------------|----------------------------------|
| FOCUS | visible joint |
| DIMENSIONS | from 40 x 110 mm to 200 x 240 mm |
| THICKNESS | 2,0 2,5 mm |
| FASTENERS | LBA, LBS, SKR, VIN-FIX |

HBS EVO

COUNTERSUNK SCREW



See also:

CATCH

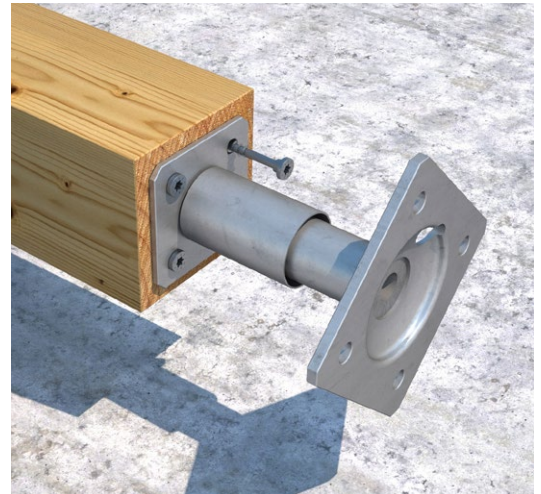
SCREWING DEVICE

Thanks to CATCH, even longer screws can be screwed on quickly and safely without the risk of the bit slipping.



HBS PLATE EVO

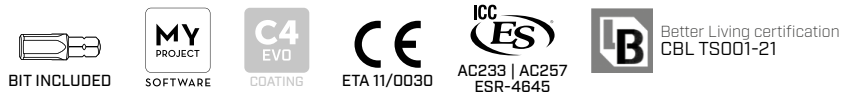
PAN HEAD SCREW



| | |
|----------|------------------------|
| FOCUS | corrosiveness class C4 |
| HEAD | shoulder for plate |
| DIAMETER | from 5,0 to 10,0 mm |
| LENGTH | from 40 to 180 mm |

TBS EVO

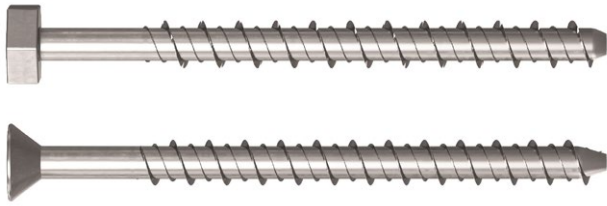
FLANGE HEAD SCREW



| | |
|----------|------------------------|
| FOCUS | corrosiveness class C4 |
| HEAD | flange |
| DIAMETER | 6,0 8,0 mm |
| LENGTH | from 60 to 320 mm |

SKR | SKS

SCREW ANCHOR FOR CONCRETE



| | |
|----------|---------------------------|
| FOCUS | screw for concrete |
| HEAD | hexagonal and countersunk |
| DIAMETER | from 7,5 to 12,0 mm |
| LENGTH | from 60 to 400 mm |

Also available in the version with C4 EVO coating

VIN FIX

VINYL ESTER CHEMICAL ANCHOR WITHOUT STYRENE



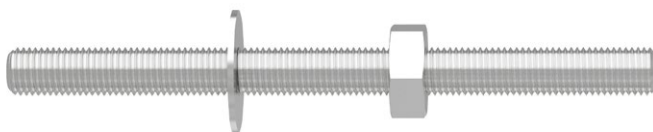
See also:

FLY
PROFESSIONAL GUN FOR 310
ML CARTRIDGES



INA

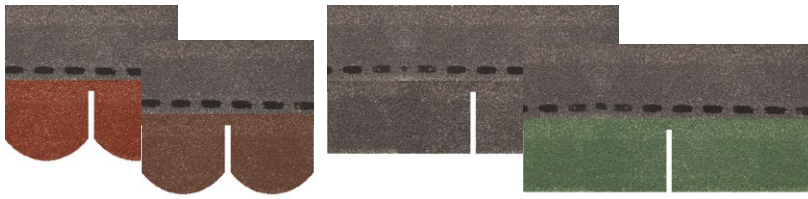
5.8 STEEL CLASS THREADED ROD
FOR CHEMICAL ANCHORS



| | |
|----------|----------------------------------|
| FOCUS | threaded rod with nut and washer |
| MATERIAL | 5.8 steel rod |
| DIAMETER | from M8 to M27 |
| LENGTH | from 110 to 400 mm |

SHINGLE

BITUMINOUS TILE



| | |
|----------|---|
| FOCUS | rectangular or beavertail |
| YIELD | 2,0 m ² / box |
| MATERIAL | glass fibre coated bitumen with coloured mineral grit |
| COLOURS | red, brown, green, black |

BYTUM SLATE 3500

SELF-ADHESIVE SLATED BITUMINOUS MEMBRANE



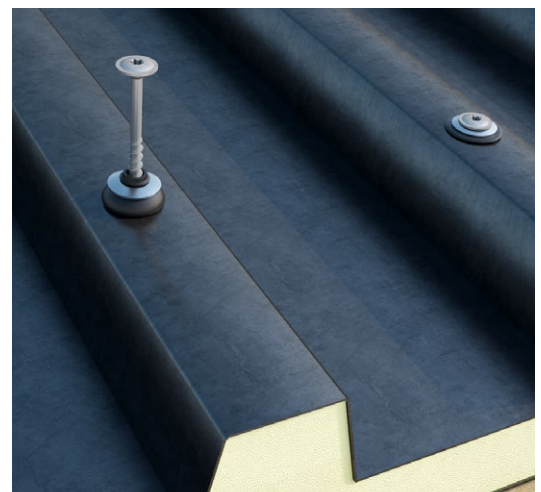
- A**
Dnorm
B4119
E-d0 nsk
- D**
ZVDH
USB-B
UDB-C
- CH**
SIA 232
V.v.o.
UD (fU)
- F**
DTU 31.2
pare-va-
peur
E1 Sd3 TR1
- I**
UNI 11564
P SR1 A
- AUS**
AS/NZS
4200.1
Class 1
- USA**
IRC
Class 1



| | |
|------------|---------------------------------------|
| FOCUS | self-adhesive and self-sealing |
| DIMENSIONS | 1,0 x 10 m |
| MATERIAL | self-adhesive bitumen coated in slate |
| COLOURS | red, grey, green, white |

WBAZ

STAINLESS STEEL WASHER WITH SEALING GASKET



| | |
|-----------------|---------------------------------|
| FOCUS | water-tightness and UV strength |
| GASKET | EPDM |
| SCREWS DIAMETER | from 6,0 to 6,5 mm |
| FASTENING | TBS EVO, MTS A2 AISI304 |

F20

SLEEVE POST BASE

S235
HOT DIP

ETA 10/0422



| | |
|-----------|--------------------------------|
| FOCUS | fences with round posts |
| VERSIONS | available in different colours |
| POSTS | Ø80 100 120 140 mm |
| FASTENING | HBS PLATE EVO, SKR, VIN-FIX |

M70 S | M70 R

SPIKED POST BASE

S235
HOT DIP

ETA 10/0422



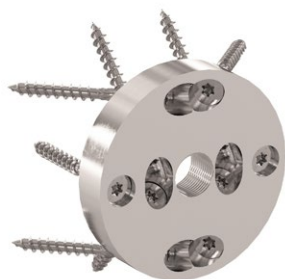
| | |
|---------------|---------------------------------|
| FOCUS | dry fastening to the ground |
| SQUARE POSTS | from 70 x 70 mm to 120 x 120 mm |
| ROUND COLUMNS | from Ø80 to Ø120 mm |
| FASTENING | HBS PLATE EVO, SKR, VIN-FIX |





DISC FLAT A2

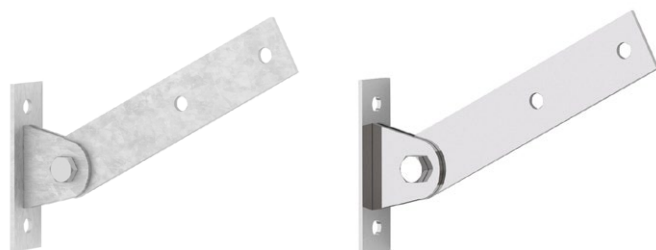
REMOVABLE CONCEALED CONNECTOR



| | |
|-----------------|---------------------------------------|
| FOCUS | universal joints |
| TIMBER SECTIONS | from 100 x 100 mm to 280 x 280 mm |
| STRENGTH | R_v over 40 kN, R_{ax} over 70 kN |
| FASTENERS | KKF AISI410, KOS A2 |

BRACE

HINGED PLATE

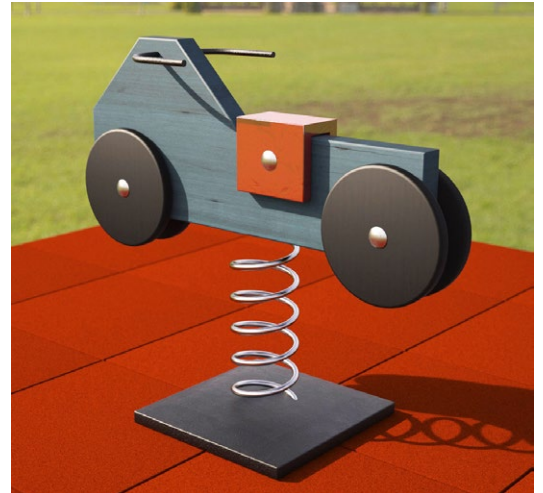


| | |
|--------------|---------------------------------|
| FOCUS | concealed joints |
| COLUMNS | from 80 x 80 mm to 200 x 200 mm |
| ROUND COLUMN | from Ø80 to Ø160 mm |
| FASTENERS | HBS PLATE EVO, KOS, KOT A2 |

KOT A2 | AISI304

ROUND HEAD BOLT

A2
AISI 304

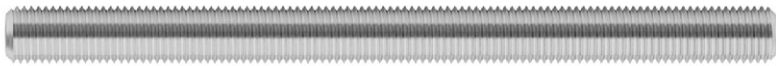


| | |
|----------|------------------------------|
| MATERIAL | A2 AISI304 stainless steel |
| LENGTH | from 50 to 300 mm |
| DIAMETER | from M8 to M12 |
| GEOMETRY | DIN 603 (ISO 8677) |

MGS AI 975

THREADED ROD

A2
AISI 304



| | |
|----------|------------------------------|
| MATERIAL | A2 AISI304 stainless steel |
| LENGTH | 1000 mm |
| DIAMETER | from M8 to M20 |
| GEOMETRY | DIN 975 |



ULS AI 9021

WASHER

A2
AISI 304



| | |
|--------------|------------------------------|
| MATERIAL | A2 AISI304 stainless steel |
| THICKNESS | from 2 to 4 mm |
| ROD DIAMETER | from M8 to M20 |
| GEOMETRY | DIN 9021 (ISO 7093) |



MUT AI 934

HEXAGONAL NUT

A2
AISI 304



| | |
|--------------|------------------------------|
| MATERIAL | A2 AISI304 stainless steel |
| THICKNESS | from 6,5 to 16 mm |
| ROD DIAMETER | from M8 to M20 |
| GEOMETRY | DIN 934 (ISO 4032) |



MUT AI 1578

BLIND NUT

A2
AISI 304



| | |
|--------------|------------------------------|
| MATERIAL | A2 AISI304 stainless steel |
| THICKNESS | from 18 to 34 mm |
| ROD DIAMETER | from M10 to M20 |
| GEOMETRY | DIN 1587 |



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CRAB MAXI

BOARD CLAMP, LARGE MODEL



| | |
|---------|--|
| FOCUS | swivel handle for precise adjustments |
| USE | to tension from 5 to 7 boards together |
| OPENING | from 200 to 770 mm |



STAR

STAR FOR DISTANCES

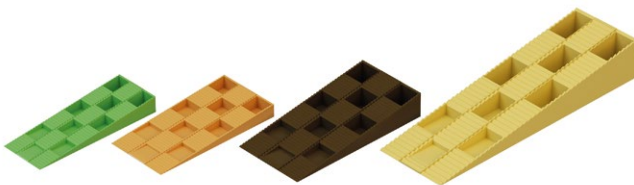


| | |
|-----------|---|
| FOCUS | the 5 most common dimensions in a single tool |
| USE | creation of uniformly sized joints |
| THICKNESS | from 4 to 8 mm |



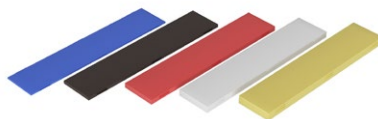
WEDGES

LEVELLING WEDGES



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