


# TIMBER FRAME

Solutions to design and build with frame systems

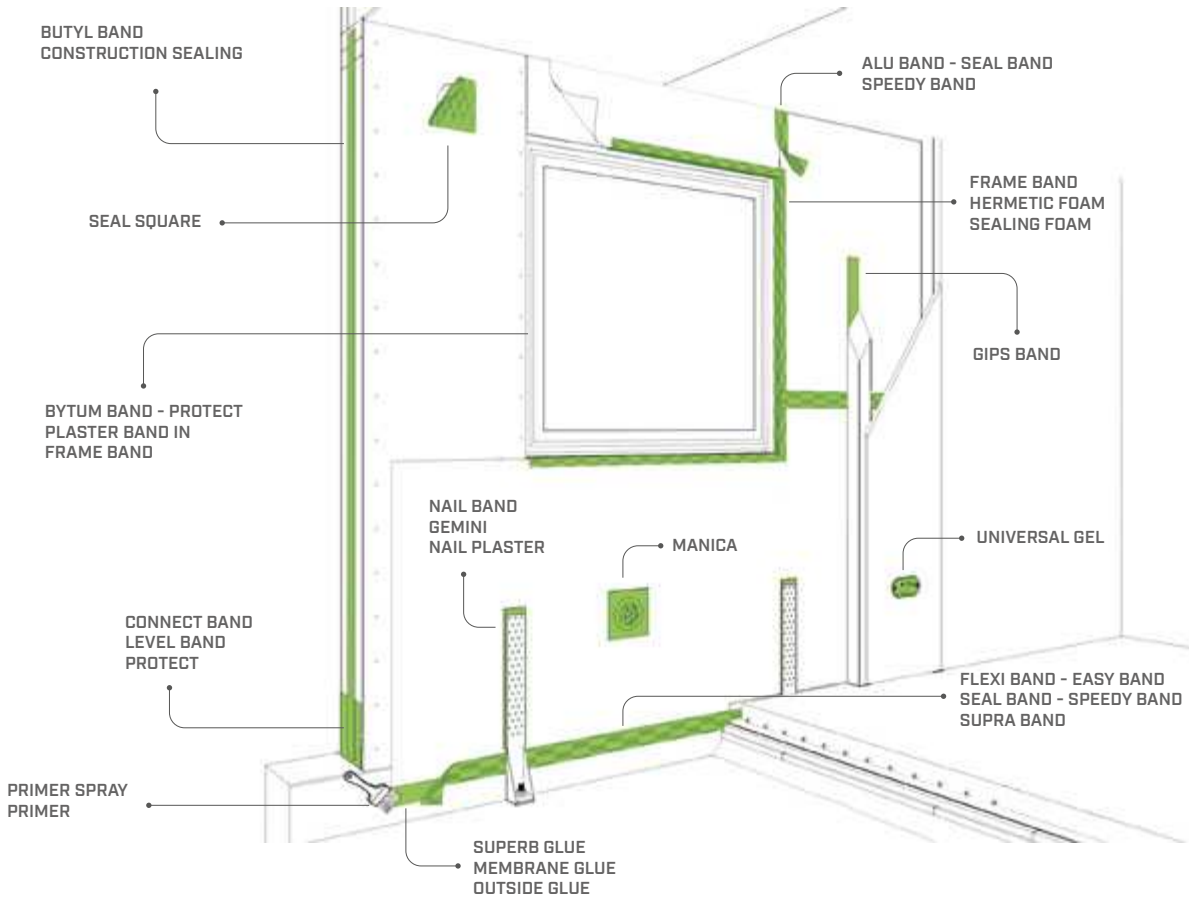


 **rothoblaas**

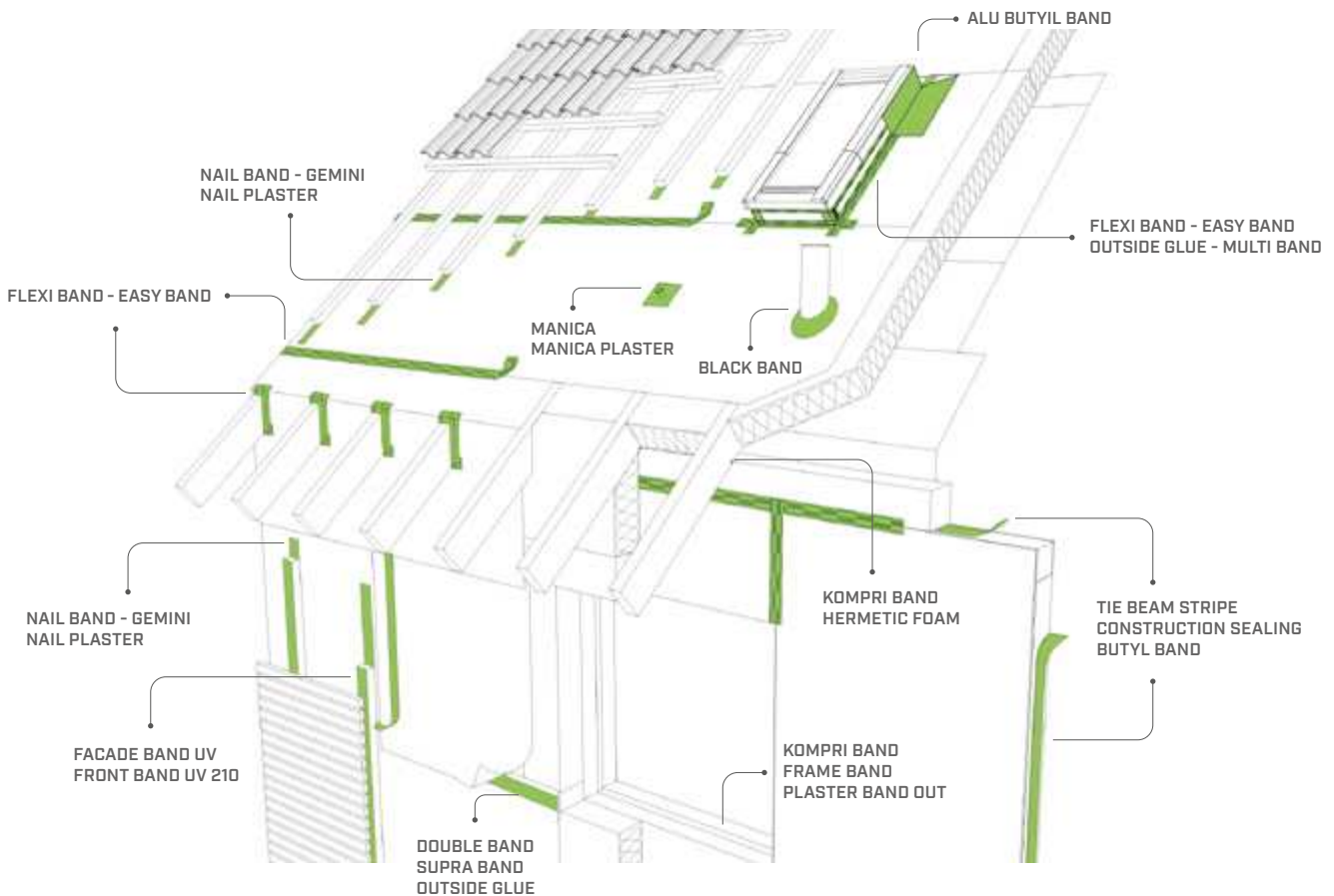
Solutions for Building Technology

# APPLICATION SETTINGS

## FRAME WALL WITH WINDOW (internal view)



## FRAME WALL AND ROOF

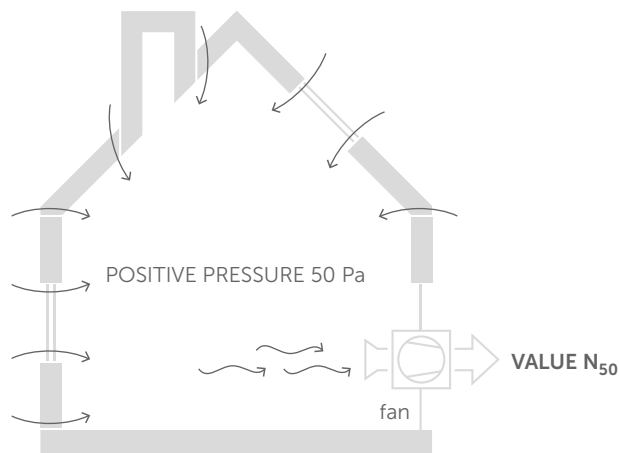


# QUALITY BUILDING

Modern building requires attention to be paid to issues that just a few years ago were considered secondary: energy savings, noise reduction, resistance to earthquakes or other exceptional natural events all of these are areas closely connected to the application of advanced technology and quality products.

## INSPECTION TOOLS

With the **BLOWER DOOR TEST** a building is subjected to positive pressure of 50 Pa, while the quantity of air that filters from the surfaces which enclose the casing is measured. The value  $n_{50}$  [1/h] expresses the ratio between the volume of air dispersed in an hour and the total volume of the building.



### VALUES $N_{50}$ [1/h]

- Passive house  $\leq 0,6/h$
- Building with low energy consumption  $\leq 2,0/h$
- Building with forced ventilation system  $\leq 1,5/h$
- Conventional building  $\leq 3,0/h$

## REDUCING ENERGY CONSUMPTION

Numerous studies show that energy use in buildings causes over 40% of global CO<sub>2</sub> emissions.

Greater attention paid to reducing energy consumption during design is essential for both the environment and for economic savings.

### MATERIALS

Wood, a sustainable material.

### INDOOR AIR QUALITY

Improved air quality, improved quality of life.

### RENEWABLE SOURCES

Environmental sustainability and primary energy sources.

### VENTILATION

Controlled air exchange for excellent comfort.

### WATER

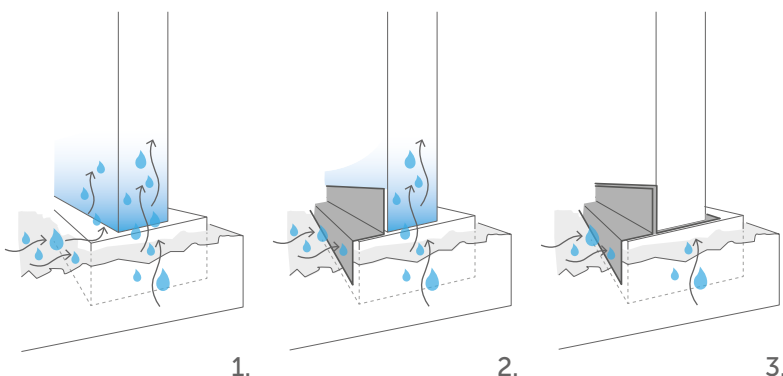
Reducing water consumption.

### LOCATION

Importance of positioning and solar contributions.

# ATTENTION TO DETAILS

The durability of wood is closely connected to protection from water: proper installation is necessary to impede external infiltration, humidity coming from the subsoil and unsatisfactory sealing.



### 1. CRITICALITY

Humidity due to capillary action.

### 2. SIDE PROTECTION

Bituminous membranes, bituminous bands.

### 3. VERTICAL PROTECTION

Continuous waterproof sheaths, bituminous and butyl bands.

# ALU START

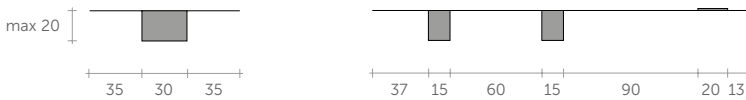
ALUMINIUM SYSTEM FOR THE CONNECTION OF BUILDINGS TO THE GROUND



<b>FOCUS</b>	raising and levelling of TIMBER FRAME panels
<b>WIDTH</b>	from 100 to 160 mm
<b>STRENGTH</b>	in all stress directions
<b>FASTENERS</b>	LBA, LBS, SKR-E, AB1, VIN-FIX PRO, EPO-FIX PLUS

# CONNECT BAND

SEALING WALL BARRIER FOR IRREGULAR FOUNDATIONS

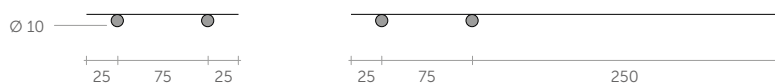
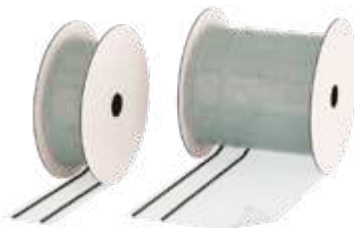


<b>FOCUS</b>	waterproofing of ground connection with irregular surfaces
<b>MATERIAL</b>	EPDM with self-expanding tapes made of impregnated polyurethane foam
<b>DIMENSIONS</b>	100 mm x 25 m   250 mm x 25 m



# LEVEL BAND

SEALING WALL BARRIER FOR FOUNDATIONS



<b>FOCUS</b>	waterproofing of ground connection with regular surfaces
<b>MATERIAL</b>	polyethylene (PE) and closed-cell EPDM profiles
<b>DIMENSIONS</b>	125 mm x 25 m   350 mm x 25 m



## PROTECT

SELF-ADHESIVE BUTYL BAND, CAN BE PLASTERED



EN 13956



FOCUS	waterproofing and sealing of ground connection and window/door frames
MATERIAL	adhesive butyl compound with polypropylene (PP) fabric support, and separation layer
DIMENSIONS	330 mm x 10 m   500 mm x 10 m
THICKNESS	1 mm

## GROUND BAND

SELF-ADHESIVE BITUMINOUS MEMBRANE



EN 13707  
EN 13969  
EN 14967



FOCUS	self-sealing and self-adhesive
MATERIAL	bituminous compound spread on high density polyethylene film (PE) and separation layer
DIMENSIONS	200 mm x 20 m   500 mm x 20 m   1000 mm x 20 m
THICKNESS	1,5 mm

## SKR-E

SCREW ANCHOR FOR CONCRETE CE1



R120



SEISMIC C2



ETA-19/0100



FOCUS	screw for concrete
HEAD	hexagonal head with mock washer
DIAMETER	from 8 to 16 mm
LENGTH	from 80 to 290 mm

## WHT

### ANGLE BRACKET FOR TENSILE LOADS



ETA-11/0086



FOCUS	tensile joints
HEIGHT	from 340 to 740 mm
THICKNESS	3,0 mm
FASTENERS	LBA, LBS, VIN-FIX PRO, EPO-FIX PLUS

## TITAN F

### ANGLE BRACKET FOR SHEAR FORCES



ETA-11/0496



FOCUS	shear joints
HEIGHT	71 mm
THICKNESS	3,0 mm
FASTENERS	LBA, LBS, VIN-FIX PRO, EPO-FIX PLUS, SKR, AB1

## WZU

### ANGLE BRACKET FOR TENSILE LOADS



ETA



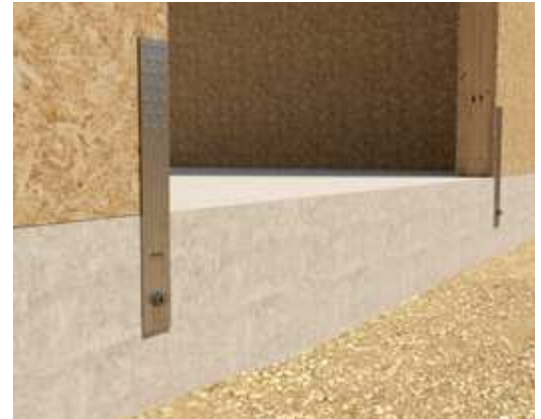
FOCUS	timber frame struts fastening
HEIGHT	from 90 to 480 mm
THICKNESS	from 2,0 to 4,0 mm
FASTENERS	LBA, LBS, VIN-FIX PRO

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## WHT PLATE C CONCRETE

### PLATES FOR TENSILE LOADS



FOCUS	tensile joints on concrete
HEIGHT	440   540 mm
THICKNESS	3,0 mm
FASTENERS	LBA, LBS, SKR, VIN-FIX PRO, EPO-FIX PLUS

## TITAN PLATE T TIMBER

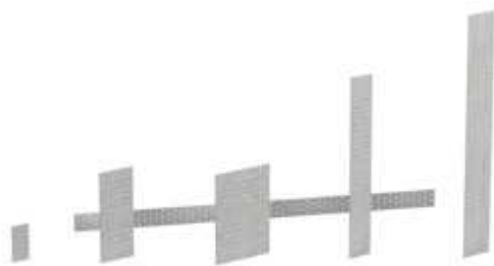
### PLATES FOR SHEAR LOADS



FOCUS	timber-to-timber shear joint
HEIGHT	200   300 mm
THICKNESS	3,0 mm
FASTENERS	LBA, LBS

## LBV

### PERFORATED PLATES



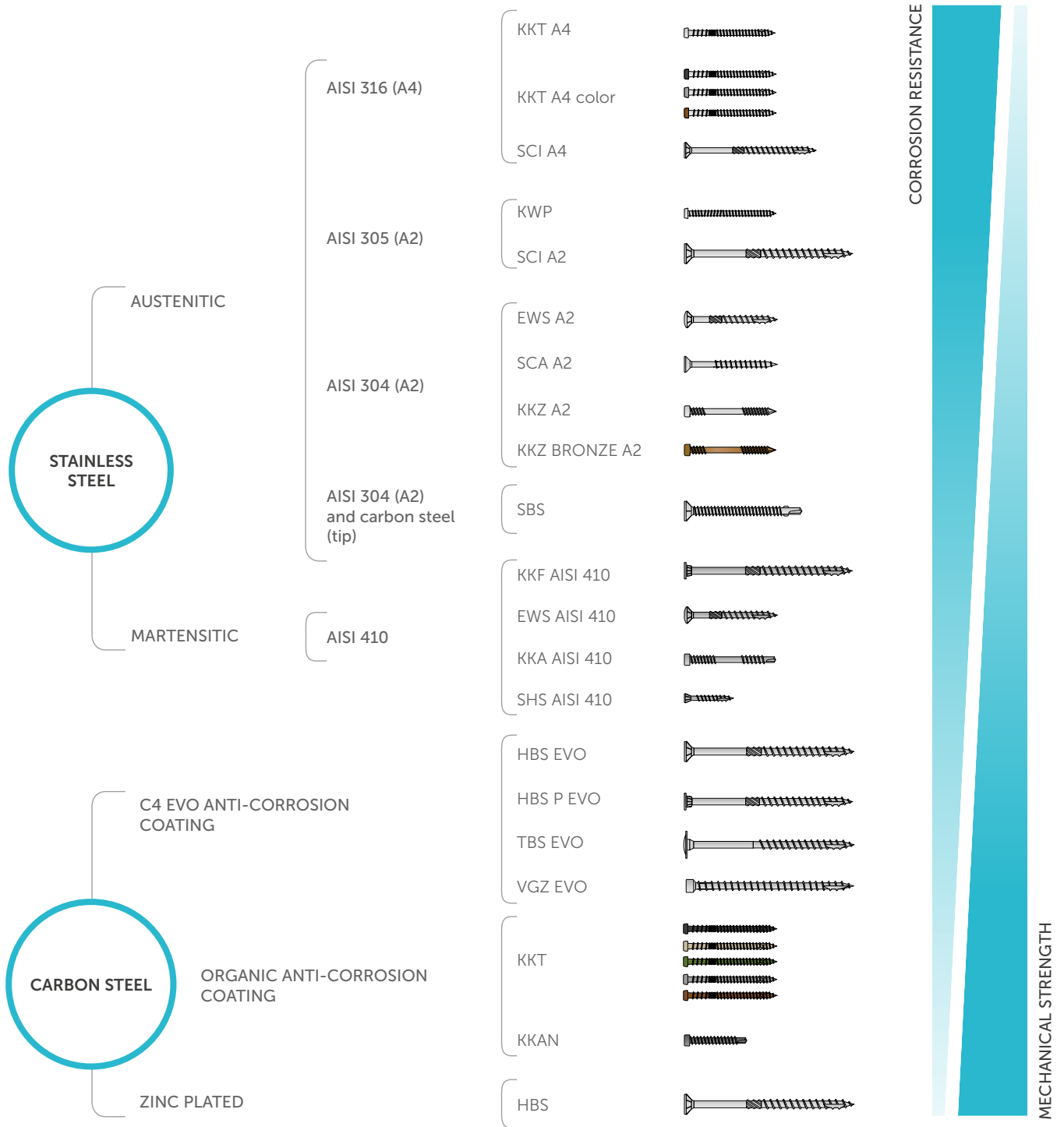
FOCUS	tension fastening
HEIGHT	from 120 to 1200 mm
THICKNESS	from 1,5 to 2,5 mm
FASTENERS	LBA, LBS



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# MATERIALS AND COATINGS



## C4 EVO COATING

Is a multilayer coating composed of:

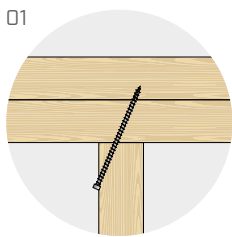
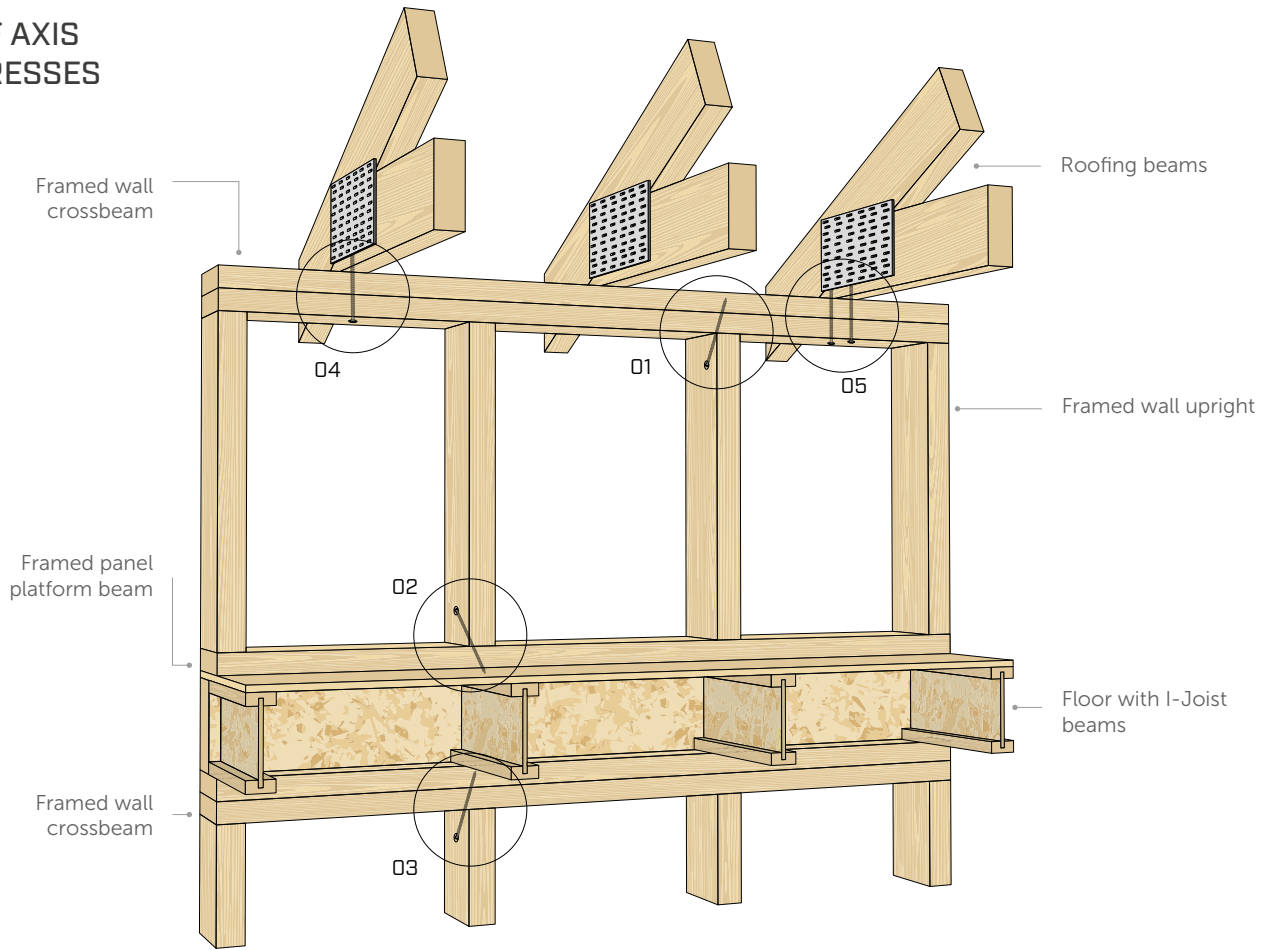
- An external functional layer of epoxy matrix with aluminium flakes of around 15-20 µm, which gives the coating optimum resistance to mechanical and thermal stresses. The aluminium flakes also serve, when required, as sacrificial cathodes for the metal base of the screw.
- A central binding layer for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



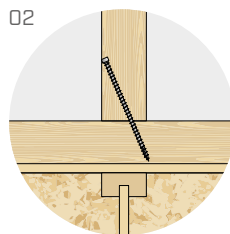


# CEILING-TO-WALL JOINTS

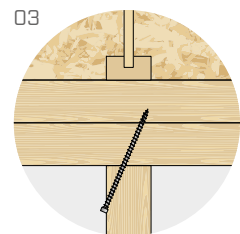
## OFF AXIS STRESSES



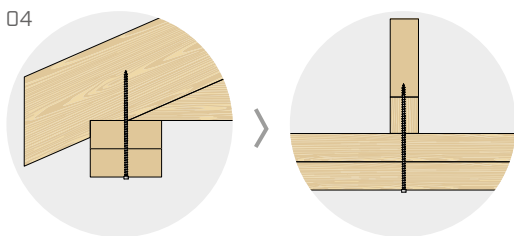
Joining of upright-crossbeam with single inclined connector



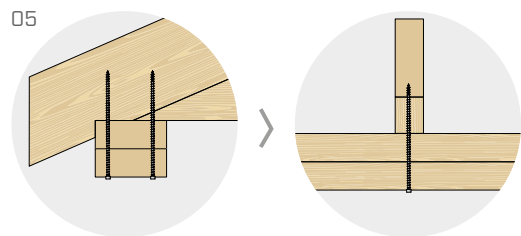
Joining of crossbeam-sill plate with single inclined connector



Joining of upright-crossbeam with single inclined connector



Joining of upright-crossbeam with single inclined connector



Joining of crossbeam-main rafter with double vertical connector

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# HBS

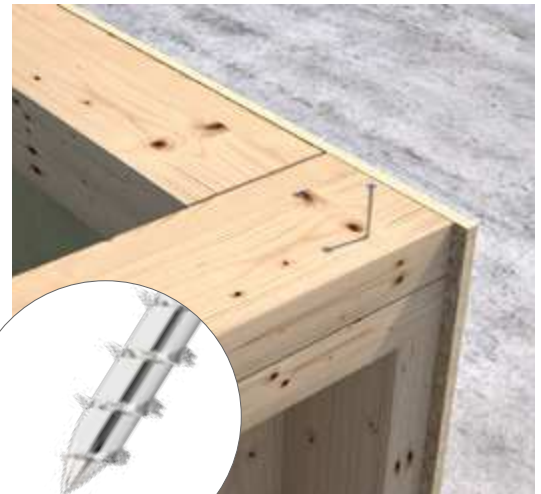
## COUNTERSUNK SCREW



FOCUS	extremely complete range
HEAD	countersunk with under-head ribs
DIAMETER	from 3,5 to 12,0 mm
LENGTH	from 30 to 600 mm

# HBS SOFTWOOD BULK

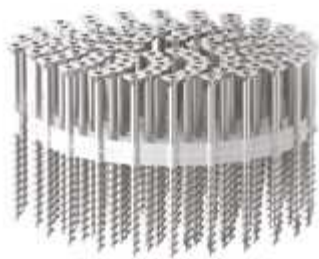
## COUNTERSUNK SCREW



FOCUS	maxi package
HEAD	countersunk with under-head ribs
DIAMETER	5,0   6,0 mm
LENGTH	from 60 to 160 mm

# HBS COIL

## HBS BOUND SCREWS



FOCUS	HBS bound screw
HEAD	countersunk with under-head ribs
DIAMETER	from 4,0 to 6,0 mm
LENGTH	from 30 to 80 mm

# LBA

## HIGH BOND NAIL



FOCUS	threaded, annular ring nail
HEAD	flat
DIAMETER	4,0   6,0 mm
LENGTH	from 40 to 100 mm

# TBS

## FLANGE HEAD SCREW



BIT INCLUDED



ETA-11/0030



FOCUS	screw with built-in washer
HEAD	flange
DIAMETER	from 6,0 to 10,0 mm
LENGTH	from 40 to 520 mm

# VGZ EVO FRAME

## MINI FULL THREAD SCREW WITH CYLINDRICAL HEAD



BIT INCLUDED



ETA-11/0030

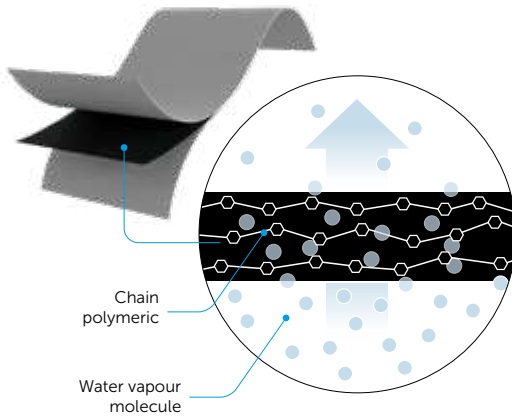


FOCUS	connector for narrow sections, ideal for outdoor use in service class 3
HEAD	cylindrical, countersunk
DIAMETER	5,3   5,6 mm
LENGTH	from 80 to 160 mm

# MEMBRANES

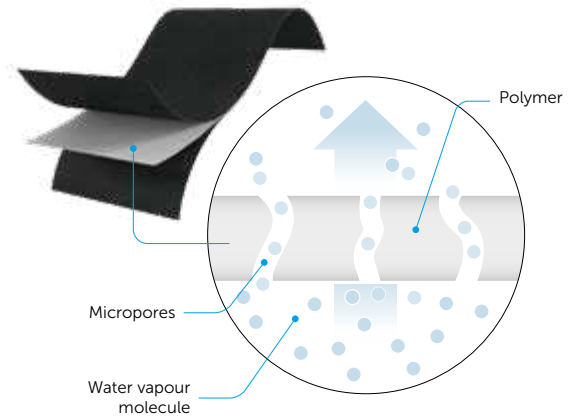
## MONOLITHIC

Membranes with a homogeneous and continuous functional layer. The permeance of monolithic membranes is provided by the ability of the polymer of which they are composed to make a **CHEMICAL INTERACTION** with water molecules. Some polymers, in fact, are able to activate a chemical interaction with water molecules and therefore to be crossed through, thus becoming breathable.



## MICROPOROUS

Membrane with functional microporous layer, obtained through mechanical processing during the production. Permeability to water vapour is entrusted to the **CAPILLARY PRINCIPLE**: the water molecule passes through the micropores in the vapour check film, enclosed in one or two protective layers.

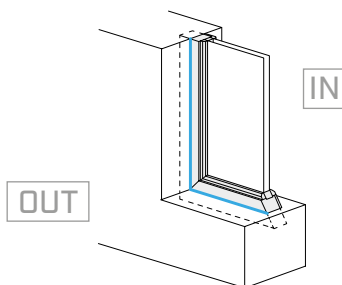


# DOORS, WINDOWS AND STRUCTURE

## THREE LEVELS OF PROTECTION

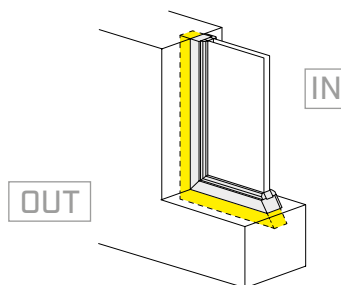
The three level method, which is used often in most European countries, identifies thermal and acoustic insulation levels for proper placement of doors and windows. To obtain maximum performance, it is important to take care in all design stages. Rothoblaas offers specific solutions for each of the three levels.

### BLUE LEVEL



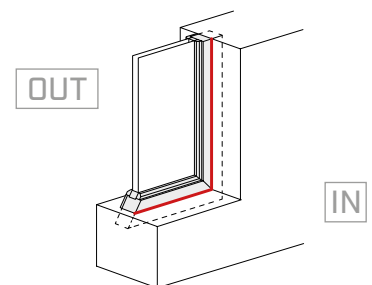
This is the most external level, that guarantees protection against weather. If not properly treated, it can create infiltration problems that lead to the formation of condensation and mould.

### YELLOW LEVEL



Intermediate level, which must guarantee thermal/acoustic performance and mechanical fixing. Problems can arise from the fact that frequently the materials that insulate well against noise are not equally effective against cold.

### RED LEVEL



Most internal level, generally the most neglected. Must guarantee airtightness to avoid formation of condensation in installation joints, which could damage the insulating solutions used in the primary node.

## EASY BAND

UNIVERSAL SINGLE-SIDED TAPE



<b>FOCUS</b>	sealing of membranes and construction elements both indoor and outdoor
<b>MATERIAL</b>	polyethylene (PE) support with acrylic glue, reinforcing grid and separation layer
<b>DIMENSIONS</b>	50 mm x 25 m   60 mm x 25 m
<b>ADVANTAGES</b>	versatile and stable even at high temperatures

## SEAL BAND

SINGLE-SIDED TAPE FOR INDOOR USE



<b>FOCUS</b>	sealing of membranes and construction elements in indoor environment
<b>MATERIAL</b>	hydrorepellant impregnated paper support, acrylic glue and separation layer
<b>DIMENSIONS</b>	60 mm x 40 m
<b>ADVANTAGES</b>	available in version with pre-cut liner to facilitate placement in corners

## FRAME BAND

SELF-EXPANDING SEALING TAPE FOR WINDOW/DOOR FRAMES



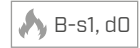
<b>FOCUS</b>	sealing of windows/doors with great soundproofing power
<b>MATERIAL</b>	precompressed polyurethane foam impregnated with fire-proof substances and polyethylene (PE) film
<b>DIMENSIONS</b>	54 mm x 30 m   74 mm x 30 m
<b>ADVANTAGES</b>	suitable to replace the three levels of protection (see intro) without additional products

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# BARRIER ALU

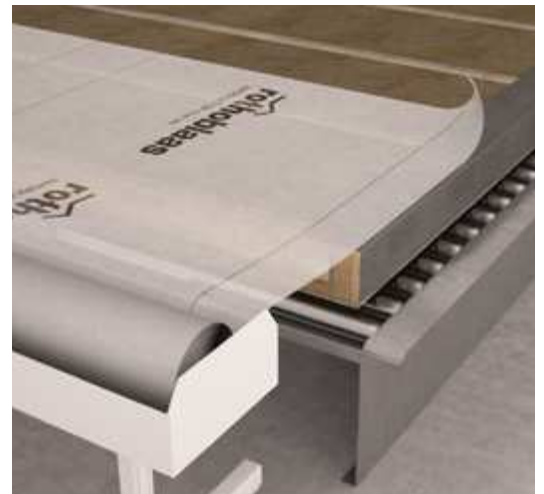
## REFLECTIVE AIR VAPOUR BARRIER



FOCUS	waterproof, it completely blocks the passage of vapour and reflects heat internally
MASS PER UNIT AREA	from 100 to 200 g/m <sup>2</sup>
WATER VAPOUR TRANSMISSION	versions from Sd > 150 to Sd > 1500 m
SPECIAL	3,0 m versions with reaction to fire class B-s1, d0

# VAPOR

## VAPOUR STOP CONTROL LAYER



FOCUS	waterproof, it blocks vapour
MASS PER UNIT AREA	from 100 to 225 g/m <sup>2</sup>
WATER VAPOUR TRANSMISSION	versions from Sd = 4 m to Sd = 40 m
SPECIAL	3,0 m versions

# CLIMA CONTROL

## MEMBRANE WITH VARIABLE DIFFUSION



FOCUS	waterproof, it regulates the passage of vapour thanks to the variable Sd
MASS PER UNIT AREA	from 80 to 160 g/m <sup>2</sup>
WATER VAPOUR TRANSMISSION	variable diffusion, between Sd = 0,2 and Sd = 5 m
SPECIAL	membrane with variable diffusion

# TRASPIR

## HIGH PERFORMANCE BREATHABLE



FOCUS	waterproof, it allows the passage of vapour
MASS PER UNIT AREA	from 75 to 270 g/m <sup>2</sup>
WATER VAPOUR TRANSMISSION	Sd < 0,05 m
SPECIAL	versions with SINTEF, CSTB, BBA certification

# TRASPIR EVO

## HIGHLY BREATHABLE MONOLITHIC MEMBRANE



FOCUS	highly waterproof, it allows the passage of vapour
MASS PER UNIT AREA	from 90 to 360 g/m <sup>2</sup>
WATER VAPOUR TRANSMISSION	Sd < 0,2 m
SPECIAL	functional monolithic layer (EVO) for excellent durability

# NET ROLL

## FLEXIBLE VENTILATED UNDER-RIDGE



FOCUS	protection of the roof ventilation section
ADVANTAGES	ventilation strap stitched and glued to pleated wings, durable
MATERIAL	polypropylene (PP) ventilation grid and aluminium strips with adhesive butyl rope
DIMENSIONS	310 mm x 5 m   390 mm x 5 m   390 mm x 20 m

# WASP

ANCHOR FOR TRANSPORTING PREFABRICATED ELEMENTS AND CLT PANELS



FOCUS	can be used for axial and transversal loads
MATERIAL	very high strength bright zinc plated carbon steel
DIMENSIONS	185 mm
ADVANTAGES	maximum capacity 1300 kg

# GIRAFFE

ASSEMBLY SUPPORT



FOCUS	precise length adjustment by means of the side handle
MATERIAL	GIR3000 and GIR4000 in zinc plated steel GIR2200 and GIR6000 in extruded aluminium 6060
DIMENSIONS	2200-3000-4000-6000 mm
ADVANTAGES	GIR3000 equipped with quick adjustment with automatic fastener

# MANTIS

LIFTING BELT FOR TRANSPORT WALLS AND PRECAST ELEMENTS



FOCUS	7:1 safety factor
MATERIAL	polyester
DIMENSIONS	50 or 100 cm
ADVANTAGES	maximum capacity 800 kg

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# XEPOX

TWO COMPONENTS EPOXY ADHESIVE



FOCUS	structural gluing
TYPES	joints with rods, joints with perforated or sandblasted plates
RANGE	5 products to adapt to all installation requirements
APPLICATION	applicable by spray, brush, percolation or spatula depending on viscosity

# VIN-FIX

VINYL ESTER CHEMICAL ANCHOR WITHOUT STYRENE



FOCUS	cracked, non-cracked concrete and seismic category C2
MATERIAL	vinyl ester without styrene based
FORMAT	300 ml   420 ml
ADVANTAGES	suitable for dry, wet concrete or submerged holes

# HERMETIC FOAM

HIGH PERFORMING SOUNDPROOFING SEALING FOAM



FOCUS	elastic sealing for regular and irregular joints on the most common materials
MATERIAL	closed-cell polyurethane compound with high elasticity
FORMAT	750 ml
ADVANTAGES	tested for noise reduction up to 60 dB

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## VGZ

FULL THREAD SCREW WITH CYLINDRICAL HEAD



BIT INCLUDED



SOFTWARE



ETA-11/0030



FOCUS	45° connections, reinforcements and couplings
HEAD	cylindrical, countersunk
DIAMETER	5,3   5,6   7,0   9,0   11,0 mm
LENGTH	from 80 to 600 mm

## ALU MIDI

CONCEALED BRACKET WITH AND WITHOUT HOLES



VIDEO



SOFTWARE



ETA-09/0361



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

## BSA

METAL HANGERS WITH EXTERNAL WINGS



ETA



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 PRO

## 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 65 kN
FASTENERS	LBS

## SPEEDY BAND

### UNIVERSAL SINGLE-SIDED TAPE WITHOUT SEPARATION LAYER



FOCUS	sealing of membranes and construction elements both indoor and outdoor
MATERIAL	polyethylene (PE) support with acrylic glue and reinforcing grid
DIMENSIONS	60 mm x 25 m   300 mm x 25 m
ADVANTAGES	no separation liner to reduce waste and time

## CONSTRUCTION SEALING

### COMPRESSIBLE SEAL FOR REGULAR JUNCTIONS



FOCUS	sealing of windows/doors and structural elements with regular surfaces
MATERIAL	Expanded EPDM
DIMENSIONS	46 mm x 25 m
ADVANTAGES	high chemical stability and durability

# ALADIN STRIPE

RESILIENT SOUNDPROOFING PROFILE



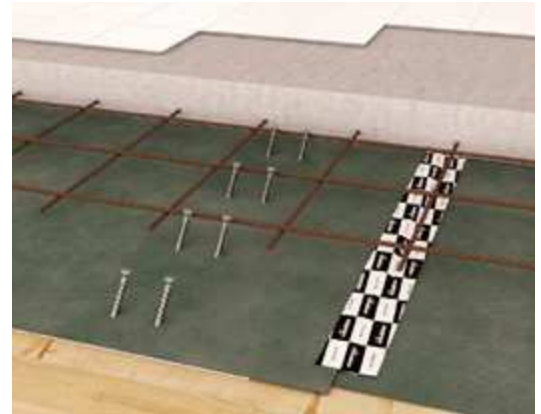
FLANKSOUND  
EN ISO 10848



MATERIAL	Extruded and expanded EPDM
THICKNESS	5,0 and 7,0 mm
DIMENSIONS	dividable pre-cut strips from 95 to 115 mm
APPLICABLE LINEAR LOAD	from 2,0 to 30 kN/m

# SILENT FLOOR

RESILIENT UNDERSCREED FOIL



FIELDS OF USE	underscreed
MATERIAL	elastoplastomeric bitumen coupled with polyester felt
ROLL DIMENSIONS	5,0 mm x 1,05 m x 10 m
DYNAMIC STIFFNESS S'	27 MN/m <sup>3</sup>
ΔLW *	28 dB

# SILENT STEP

SUBSTRATE MADE OF POLYETHYLENE SERVING AS A VAPOUR BARRIER



FIELDS OF USE	underfloor
MATERIAL	NPE polyethylene with PE film
ROLL DIMENSIONS	2,0 mm x 1,0 m x 15 m
MASS PER UNIT AREA	100 g/m <sup>2</sup>
PROTECTION FROM RISING DAMP (Sd)	> 75 m

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## 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 PRO

## FLAT - FLIP

CONNECTORS FOR DECKING



FOCUS	extremely precise joints
CLADDING	black anti-rust coating   zinc plated
BOARDS	symmetrical grooving
JOINTS	7,0 mm
FASTENERS	KKTN540, KKAN440

## TRASPIR EVO UV

HIGHLY BREATHABLE MONOLITHIC MEMBRANE  
RESISTANT TO UV RAYS

B-s1, d0

CE  
EN 13859-2



FOCUS	permanent UV stability
MASS PER UNIT AREA	210 g/m <sup>2</sup>
WATER VAPOUR TRANSMISSION	Sd < 0,15 m
SPECIAL	3.0 m versions with reaction to fire class B-s1, d0



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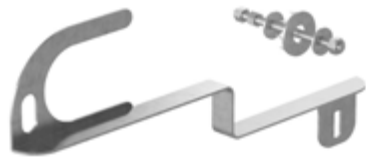


# SLIM

## ANCHOR POINT



EN 517:2006 B	EN 795:2012 A	UNI 11578:2015 A
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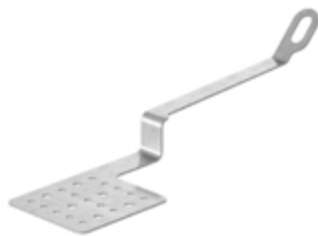
FOCUS	ideal for timber beams with reduced cross-section, from a minimum of 38 x 68 mm
MATERIAL	1.4016 stainless steel grade AISI430
FIELD OF USE	min. timber structure 114 mm (38 + 38 + 38) x 68 mm

# HOOK EVO 2.0

## ANCHOR POINT



EN 795:2012 A	UNI 11578:2015 A
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FOCUS	versatile fastening according to the type of tiles on the roof
MATERIAL	1.4301 stainless steel grade AISI304
FIELD OF USE	min. timber structure 80 x 100 mm min. concrete structure 120 mm

# LOOP - LOOP XL

## ANCHOR POINT



EN 795:2012 A	UNI 11578:2015 A
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FOCUS	low visual impact, ideal for installation on roofs in historic centres
MATERIAL	1.4404 stainless steel grade AISI316   EN AW-6060 aluminium
FIELD OF USE	min. timber structure: 100 x 100 mm concrete structure in combination with KRAKEN support: min. 40 mm

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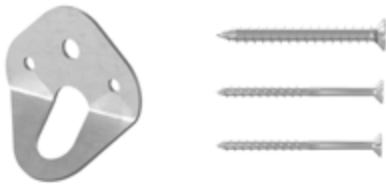
# KITE

## ANCHOR POINT



EN  
795:2012 A

UNI  
11578:2015 A



FOCUS	ideal as an anchor point in multiple environments, it allows the operator to safely access
MATERIAL	1.4016 stainless steel grade AISI430
FIELD OF USE	min. timber structure 100 x 100 mm min. concrete structure 140 mm min. steel structure 5 mm

# TOWER

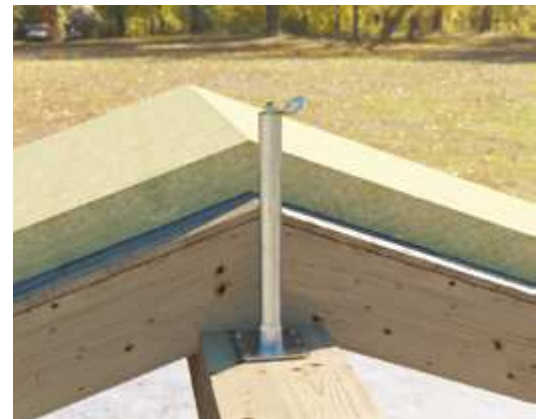
## SUPPORT FOR AOS01



EN  
795:2012 A+C

CEN/TS  
16415:2013

UNI  
11578:2015 A+C



FOCUS	support suitable for installation on flat, inclined and overhead surfaces for PATROL lifeline or as single point in combination with AOS01
MATERIAL	galvanized steel S235JR or stainless steel 1.4301 / AISI304
FIELD OF USE	min. timber structure 160 x 160 mm min. concrete structure 140 mm min. steel structure 6 mm

# PATROL KIT

## LIFELINE KIT



EN  
795:2012 C

CEN/TS  
16415:2013

UNI  
11578:2015 C



FOCUS	convenient kit including terminals, dissipators, intermediate and rope for the construction of a of 10-15 or 25 m. lifeline
MATERIAL	1.4301 stainless steel grade AISI304 - EN-AW 6082 aluminium
FIELD OF USE	usable on TOWER, TOWER XL, SHIELD, SHIELD 2.0, COPPO supports

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and accesses | PPE | Fastening systems and accessories

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