

HIGHLY-RESISTANT POST BASE

MIGHTY

Characteristic compression strength of more than 300 kN. Ideal for large columns.

RAISED

Outdistanced from the ground to avoid water splash and stagnation and guarantee high durability. Concealed fastening on the timber element.

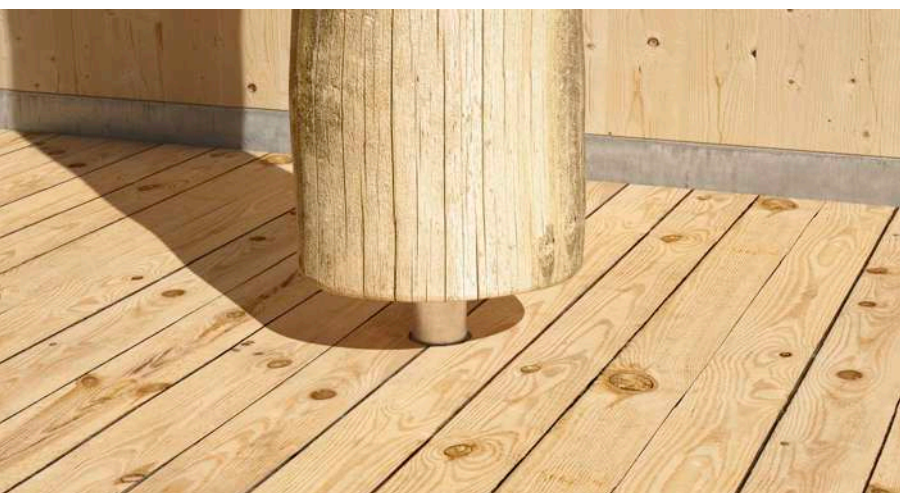
CERTIFIED SAFETY

Exceptional compression strength values calculated and certified according to ETA.



CHARACTERISTICS

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



MATERIAL

Hot dip bright zinc plated carbon steel.

FIELDS OF USE

Outdoor joints. Suitable for service class 1, 2 and 3

- solid timber and glulam
- CLT, LVL



$R_{1,c} k > 300 \text{ kN}$



POINT-TO-POINT LOAD

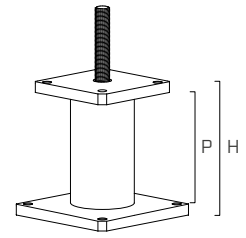
Ideal for transferring high compression forces deriving from large columns. Excellent durability of the column thanks to the tubular that generates the riser.

LARGE SCALE STRUCTURES

Ideal for beam and column construction systems of large dimensions and large spans.

CODES AND DIMENSIONS

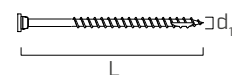
CODE	H	P	top plate	top holes	bottom plate	lower holes	rod $\varnothing \times L$	pcs
	[mm]	[mm]	[mm]	[n. x mm]	[mm]	[n. x mm]	[mm]	
S50120120	144	120	120 x 120 x 12	4 x $\varnothing 11$	160 x 160 x 12	4 x $\varnothing 13$	M20 x 120	1
S50120180	204	180	120 x 120 x 12	4 x $\varnothing 11$	160 x 160 x 12	4 x $\varnothing 13$	M20 x 120	1
S50160180	212	180	160 x 160 x 16	4 x $\varnothing 11$	200 x 200 x 16	4 x $\varnothing 13$	M24 x 150	1
S50160240	272	240	160 x 160 x 16	4 x $\varnothing 11$	200 x 200 x 16	4 x $\varnothing 13$	M24 x 150	1



HBS PLATE EVO

CODE	d_1	L	b	TX	pcs
	[mm]	[mm]	[mm]		
HBSPEVO880	8	80	55	TX 40	100

C4
EVO
COATING



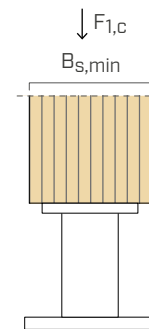
MATERIAL AND DURABILITY

S50: S235 carbon steel with hot galvanising.
To be used in service classes 1, 2 and 3 (EN 1995-1-1).

FIELD OF USE

- Timber columns

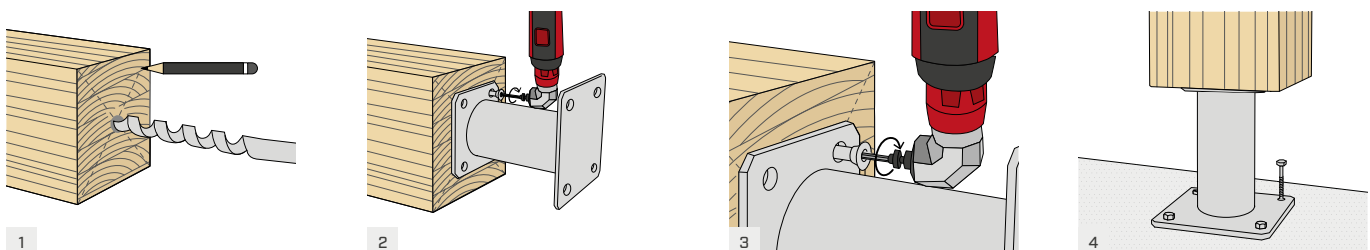
EXTERNAL LOADS



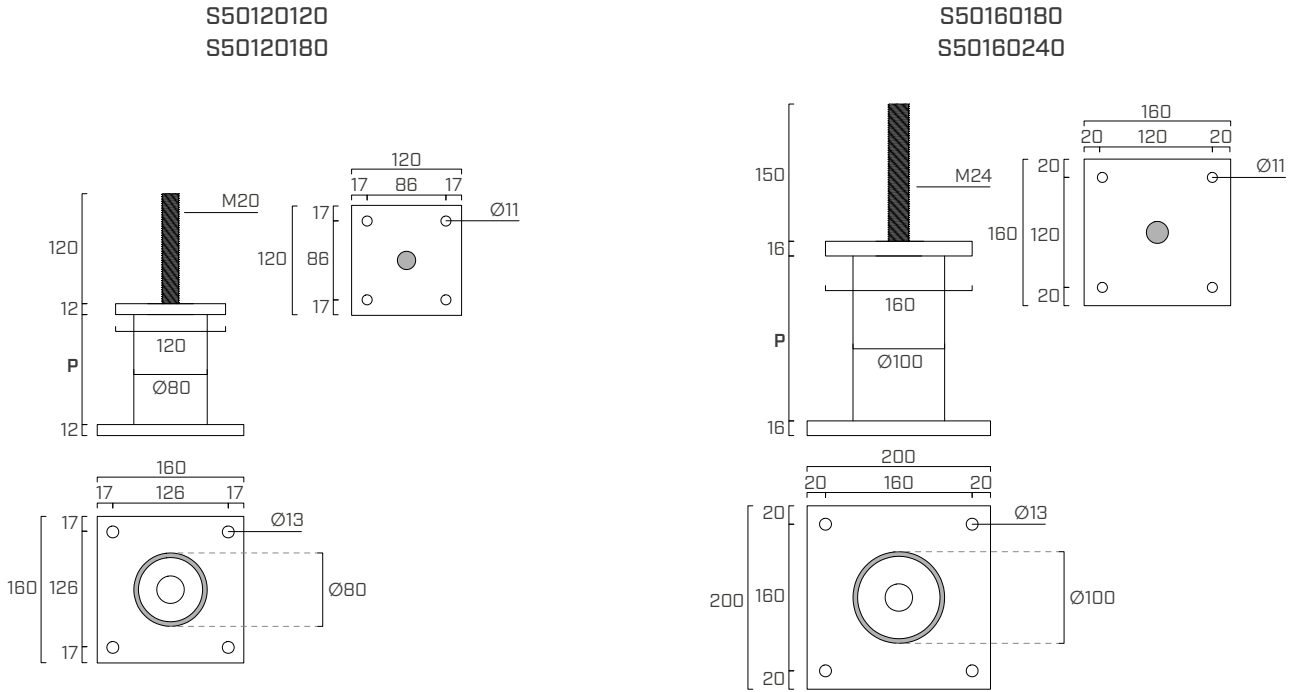
ADDITIONAL PRODUCTS - FASTENING

type	description		d	support	page
			[mm]		
HBS PLATE EVO	screw for timber		8		560
SKR	screw anchor		12		488
AB1 - AB1 A4	metal anchor		12		488 - 496
VIN-FIX PRO	chemical anchor		M12		511
EPO-FIX PLUS	chemical anchor		M12		517

ASSEMBLY

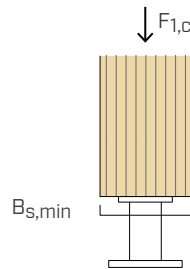


GEOMETRY



STATIC VALUES

COMPRESSION STRENGTH



CODE	$B_{s,min}$ [mm]	$R_{1,c}$ k timber		$R_{1,c}$ k steel			
		[kN]	γ_{timber}	[kN]	γ_{steel}	[kN]	γ_{steel}
S50120120	120 x 120	193,0	$\gamma_{MT}^{(1)}$	127,0	γ_{M0}	277,0	γ_{M1}
S50120180		193,0		127,0		277,0	
S50160180	160 x 160	324,0		247,0		351,0	
S50160240		324,0		247,0		351,0	

NOTES:

⁽¹⁾ γ_{MT} partial coefficient of the timber.

GENERAL PRINCIPLES:

- Characteristic values according to ETA-10/0422.
- The design values are obtained from the characteristic values as follows:

$$R_d = \min \left\{ \begin{array}{l} \frac{R_{i,k \text{ timber}} \cdot k_{mod}}{\gamma_{timber}} \\ \frac{R_{i,k \text{ steel}}}{\gamma_{steel}} \end{array} \right.$$

The coefficients k_{mod} and γ should be taken according to the current regulations used for the calculation.

The verification of the fastener-to-concrete connection must be carried out separately.

- For the calculation process a timber density $\rho_k = 350 \text{ kg/m}^3$ has been considered.
- Dimensioning and verification of timber and concrete elements must be carried out separately.