

## HIGHLY-RESISTANT POST BASE

### MIGHTY

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

### RAISED

It ensures spacing from the ground to avoid water splashing or stagnation and provides high durability. Hot-dip galvanisation ensures durability in outdoor contexts.

### ATTENTION TO DETAILS

The base features four auxiliary holes for inserting screws using a long bit.



USA, Canada and more design values available online.



VIDEO

CE  
ETA-10/0422

SERVICE CLASS

SC1

SC2

SC3

MATERIAL

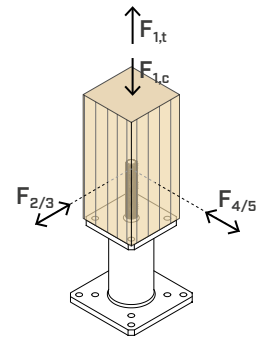
S235  
HD655

S235 carbon steel with hot galvanising  
55 µm

GROUND CLEARANCE

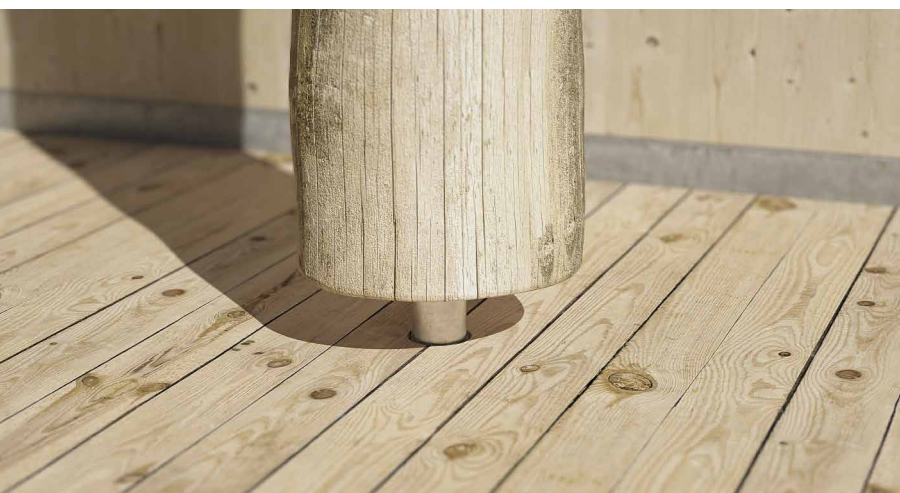
from 144 to 272 mm

EXTERNAL LOADS



### VIDEO

Scan the QR Code and watch the video on our YouTube channel



## FIELDS OF USE

Ground joints for compressed columns.  
Canopies, columns supporting roofs or floors.

Suitable for columns in:

- solid timber softwood and hardwood
- glulam, LVL



## HEAVY STRUCTURES

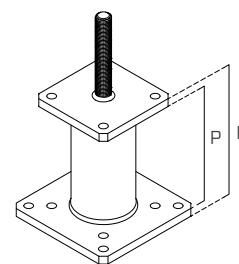
Ideal for transferring high compression forces deriving from large columns. Excellent durability of the column thanks to the tubular that generates the riser.

## TOLERANCE

The height can be adjusted with a nut and lock nut system, adding bedding grout after installation.

## CODES AND DIMENSIONS

CODE	H [mm] [in]	P [mm] [in]	top plate [mm] [in]	top holes [n. x mm] [n. x in]	bottom plate [mm] [in]	lower holes [n. x mm] [n. x in]	rod Ø x L [mm] [in]	pcs
S50120120	144 5 11/16	120 4 3/4	120 x 120 x 12 4 3/4 x 4 3/4 x 0.47	4 x Ø12 4 x Ø0.47	160 x 160 x 12 6 1/4 x 6 1/4 x 0.47	4 x Ø13 4 x Ø0.51	M20 x 120 0.79 x 4 3/4	1
S50120180	204 8 1/16	180 7 1/8	120 x 120 x 12 4 3/4 x 4 3/4 x 0.47	4 x Ø12 4 x Ø0.47	160 x 160 x 12 6 1/4 x 6 1/4 x 0.47	4 x Ø13 4 x Ø0.51	M20 x 120 0.79 x 4 3/4	1
S50160180	212 8 3/8	180 7 1/8	160 x 160 x 16 6 1/4 x 6 1/4 x 0.63	4 x Ø12 4 x Ø0.47	200 x 200 x 16 8 x 8 x 0.63	4 x Ø13 4 x Ø0.51	M24 x 150 0.79 x 6	1
S50160240	272 10 11/16	240 9 1/2	160 x 160 x 16 6 1/4 x 6 1/4 x 0.63	4 x Ø12 4 x Ø0.47	200 x 200 x 16 8 x 8 x 0.63	4 x Ø13 4 x Ø0.51	M24 x 150 0.79 x 6	1



## FASTENERS

HBS PLATE EVO - C4 EVO pan head screw

CODE	d <sub>1</sub> [mm]	L [mm]	b [mm]	TX	pcs
HBSPLEVO880	8	80	55	TX 40	100

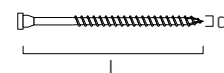
VGS EVO - C4 EVO fully threaded screw with countersunk head

CODE	d <sub>1</sub> [mm]	L [mm]	b [mm]	TX	pcs
VGSEVO11100	11	100	90	TX 50	25

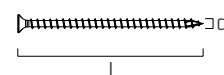
HUS A4 - C4 EVO turned washer

CODE	d <sub>VGS EVO</sub> [mm]	pcs
HUS10A4	11	50

C4  
EVO  
COATING



C4  
EVO  
COATING



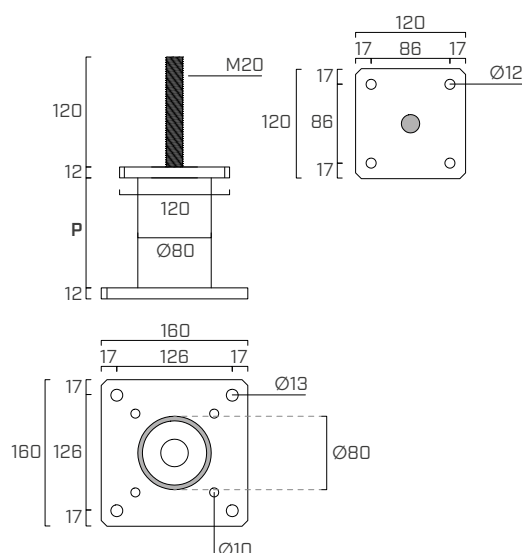
A4  
AISI 316



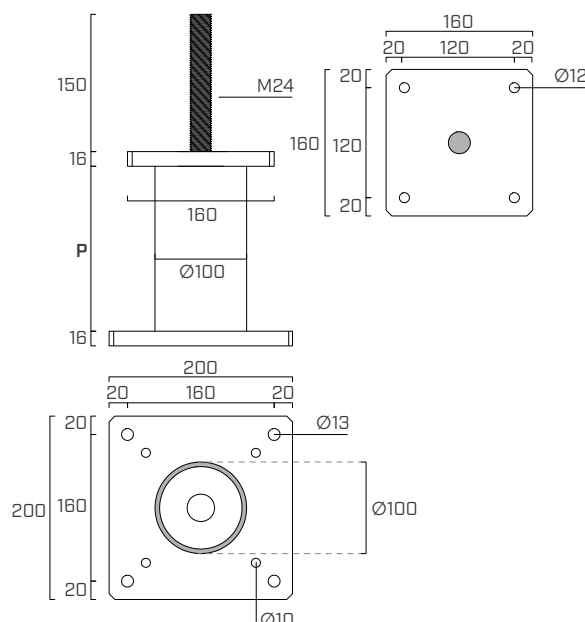
type	description		d [mm]	support	page
HBS PLATE EVO	C4 EVO pan head screw		8		573
SKR/SKR EVO	screw-in anchor		12		528
AB1	CE1 expansion anchor		12		536
ABE A4	CE1 expansion anchor		M12		534
VIN-FIX	vinyl ester chemical anchor		M12		545

## GEOMETRY

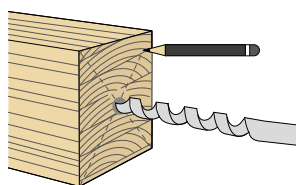
S50120120  
S50120180



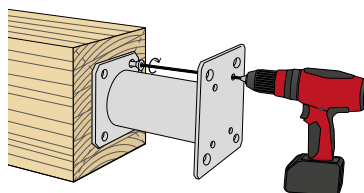
S50160180  
S50160240



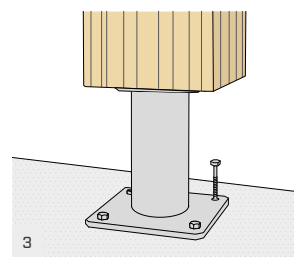
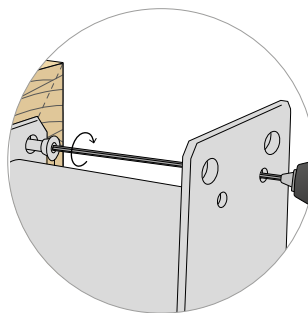
## MOUNTING



1

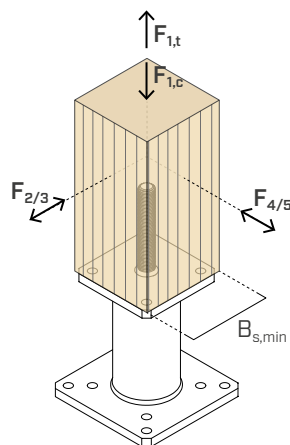


2



3

## STRUCTURAL VALUES



### COMPRESSION

CODE	$B_{s,min}$ [mm]	$R_{1,c}$ k timber		$R_{1,c}$ k steel	
		[kN]	$\gamma_{timber}$	[kN]	$\gamma_{steel}$
S50120120	120 x 120	200,0	$\gamma_{MT}^{(1)}$	157,0	$\gamma_{M0}$
S50120180		200,0		157,0	
S50160180	160 x 160	334,0		268,0	
S50160240		334,0		268,0	

### TENSION

### SHEAR

CODE	fasteners for timber		R <sub>1,t</sub> k timber		R <sub>2/3</sub> k timber = R <sub>4/5</sub> k timber		
	type	pcs - Ø x L [mm]	[kN]	Y <sub>timber</sub>	[kN]	Y <sub>timber</sub>	
S50120120	HBS PLATE EVO Ø8	4 - Ø8x80	6,2	Y <sub>MC</sub> <sup>(2)</sup>	9,7	Y <sub>MC</sub> <sup>(2)</sup>	
S50120180							
S50160180	VGS EVO Ø11+HUS10A4	4 - Ø11x150 <sup>(3)</sup>	21,6		20,9		
S50160240							

### NOTES

<sup>(1)</sup>  $\gamma_{MT}$  partial coefficient of the timber.

<sup>(2)</sup>  $\gamma_{MC}$  partial coefficient for connections.

<sup>(3)</sup> Screw not compatible with post base S50120120.

### GENERAL PRINCIPLES

- Characteristic values are consistent with EN 1995-1-1:2014 and in accordance with ETA-10/0422.
- Design values can be obtained from characteristic values as follows:

$$R_d = \min \left\{ \frac{R_{i,k \text{ timber}} \cdot k_{mod}}{\gamma_M}, \frac{R_{i,k \text{ steel}}}{\gamma_{Mi}} \right\}$$

The coefficients  $k_{mod}$ ,  $\gamma_M$  and  $\gamma_{Mi}$  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.

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

### UK CONSTRUCTION PRODUCT EVALUATION

- UKTA-0836-22/6374.