

P10 - P20

EMBEDDED TUBULAR POST BASE

RAISED

To be embedded in concrete, it allows the column to be separated from the ground. Hot-dip galvanising for P10 models and DAC COAT coating for P20 models ensure maximum durability in outdoor environments.

HEIGHT

It is possible to distance the column from the ground by more than 300 mm for excellent durability, in compliance with national standards such as DIN68800.

ADJUSTABLE AFTER INSTALLATION

In the P20 version, the height can be adjusted even after assembly is completed.



USA, Canada and more design values available online.



VIDEO



ETA-10/0422

SERVICE CLASS

SC1

SC2

SC3

MATERIAL

S235
HDG55

P10: S235 carbon steel with hot galvanising 55 µm

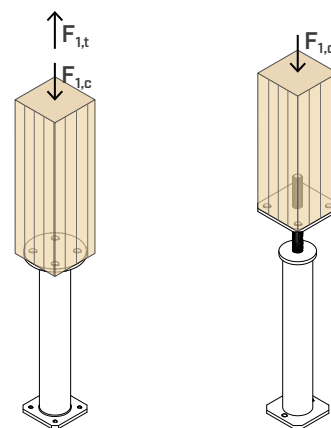
S235
DAC COAT

P20: S235 carbon steel with special coating DAC COAT

GROUND CLEARANCE

from 193 to 326 mm

EXTERNAL LOADS



VIDEO

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



FIELDS OF USE

Ground joints for columns requiring high spacing.

Suitable for columns in:

- solid timber softwood and hardwood
- glulam, LVL



BALCONIES AND TERRACES

Ideal for creating high durability concealed joints for outdoor wooden columns.

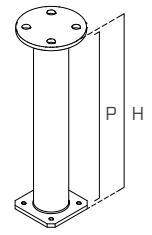
PROFESSIONAL INSTALLATION

The timber-to-ground distance of more than 300 mm allows for professional and particularly durable supports.

P10

CODE	H	P	top plate	top holes	bottom plate	pcs
	[mm] <i>[in]</i>	[mm] <i>[in]</i>	[mm] <i>[in]</i>	[n. x mm] <i>[n. x in]</i>	[mm] <i>[in]</i>	
P10300	312	300	Ø100 x 6	4 x Ø11	80 x 80 x 6	1
	12 5/16	11 3/4	Ø3.94 x 0.24	4 x Ø0.43	3 1/8 x 3 1/8 x 0.24	
P10500	512	500	Ø100 x 6	4 x Ø11	80 x 80 x 6	1
	20 3/16	19 3/4	Ø3.94 x 0.24	4 x Ø0.43	3 1/8 x 3 1/8 x 0.24	

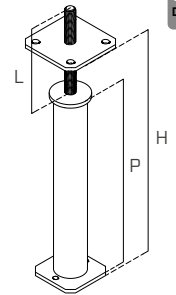
Screws are not included and must be ordered separately.



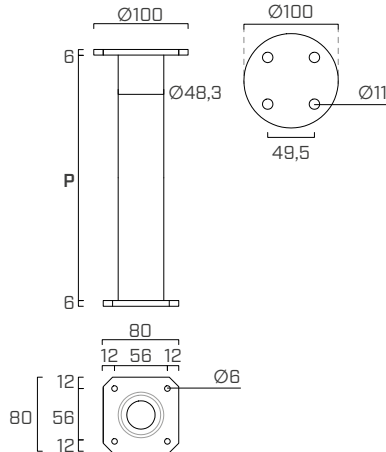
P20

CODE	H	P	top plate	top holes	bottom plate	rod Ø x L	pcs
	[mm] <i>[in]</i>	[mm] <i>[in]</i>	[mm] <i>[in]</i>	[n. x mm] <i>[n. x in]</i>	[mm] <i>[in]</i>	[mm] <i>[in]</i>	
P20300	312	300	100 x 100 x 8	4 x Ø11	80 x 80 x 6	M24 x 170	1
	12 5/16	11 3/4	4 x 4 x 0.31	4 x Ø0.43	3 1/8 x 3 1/8 x 0.24	0.95 x 6 3/4	
P20500	512	500	100 x 100 x 8	4 x Ø11	80 x 80 x 6	M24 x 170	1
	20 3/16	19 3/4	4 x 4 x 0.31	4 x Ø0.43	3 1/8 x 3 1/8 x 0.24	0.95 x 6 3/4	

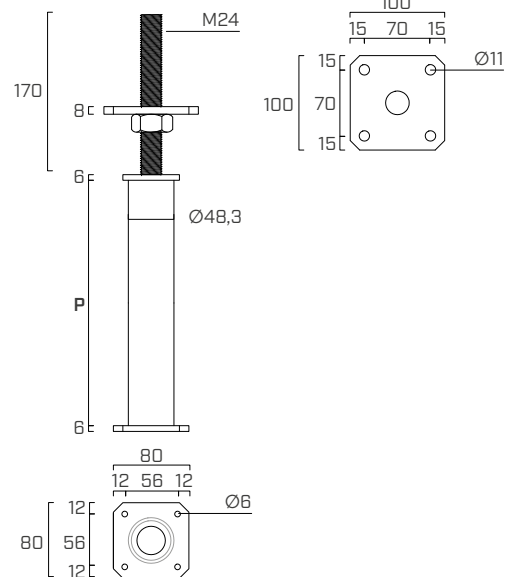
Screws are not included and must be ordered separately.



P10

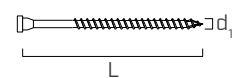


P20



HBS PLATE EVO - C4 EVO pan head screw

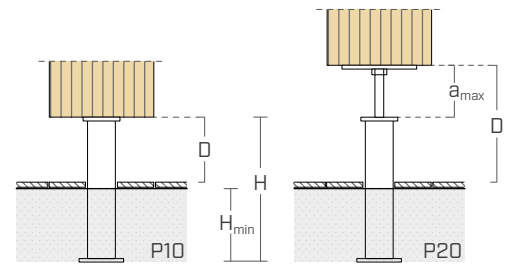
CODE	d ₁	L	b	TX	pcs
	[mm]	[mm]	[mm]		
HBSPLEVO880	8	80	55	TX 40	100



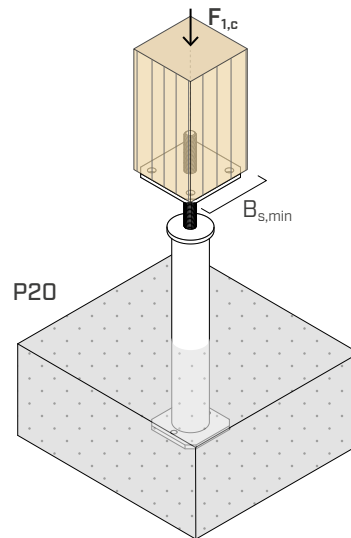
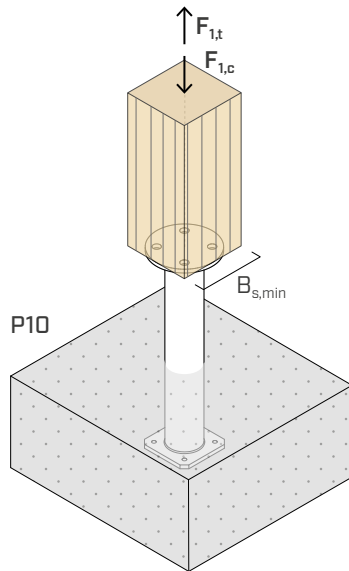
INSTALLATION ON CONCRETE

	CODE	H [mm]	H _{min} [mm]	a _{max} ^(*) [mm]	D _{max} [mm]
P10	P10300	312	156	-	156
	P10500	512	256	-	256
P20	P20300	312	156	70	193-226
	P20500	512	256	70	293-326

(*) a_{min} ≈ 35÷40 mm (top plate + nut + welding space).



STRUCTURAL VALUES



P10

						COMPRESSION						TENSION	
CODE	B _{s,min}	H	H _{min}	fasteners for timber		R _{1,c} k timber		R _{1,c} k steel				R _{1,t} k timber	
	[mm]	[mm]	[mm]	type	pcs - Ø x L [mm]	[kN]	γ _{timber}	[kN]	γ _{steel}	[kN]	γ _{steel}	[kN]	γ _{timber}
P10300	□ 100 x 100	312	156	HBS PLATE	4 - Ø8x80	98,6	γ _{MT} ⁽¹⁾	78,7	γ _{M0}	107,0	γ _{M1}	6,2	γ _{MC} ⁽²⁾
P10500	○ Ø100	512	256	EVO Ø8	4- Ø8x160					99,3		14,6	

P20

CODE	B _{s,min} [mm]	H [mm]	H _{min} [mm]	a _{max} [mm]	fasteners for timber	COMPRESSION							
						R _{1,c} k timber		R _{1,c} k steel					
						type	pcs - Ø x L [mm]	[kN]	γ _{timber}	[kN]	γ _{steel}	[kN]	γ _{steel}
P20300	□ 100 x 100	312	156	70	HBS PLATE	4 - Ø8x80		93,7	γ _{MT} ⁽¹⁾	59,5	γ _{M0}	106,0	γ _{M1}
P20500		512	256	70	EVO Ø8							106,0	

NOTES

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

⁽²⁾ γ_{MC} partial coefficient for connections.

GENERAL PRINCIPLES

- The characteristic values are consistent with EN 1995-1-1:2014 and in accordance with ETA-10/022 and valid for a minimum anchoring depth in the concrete casting of H_{min}.
- Design values can be obtained from characteristic values as follows:

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

The coefficients k_{mod}, γ_M and γ_{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 ρ_k = 350 kg/m³ 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.