

P10 - P20



EMBEDDED TUBULAR POST BASE

RAISED

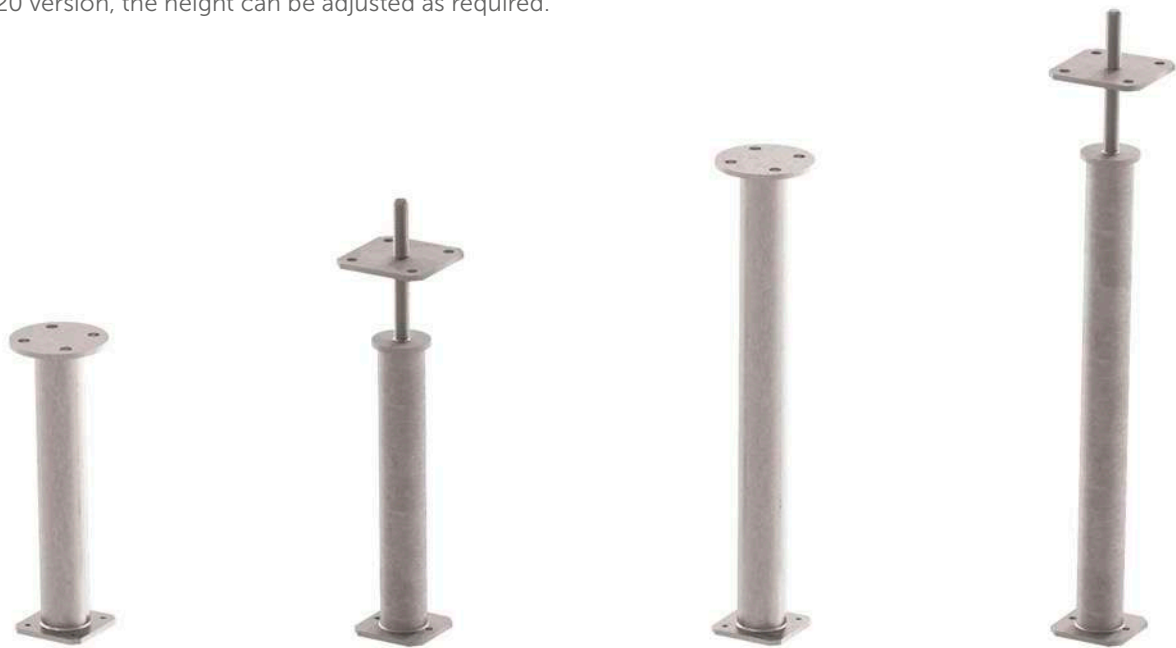
To be embedded in concrete, it allows keep the column distant from the ground ensuring high durability of the timber.

$H \geq 300$ mm

The column can be installed at a distance of more than 300 mm from the ground in accordance with DIN 68800.

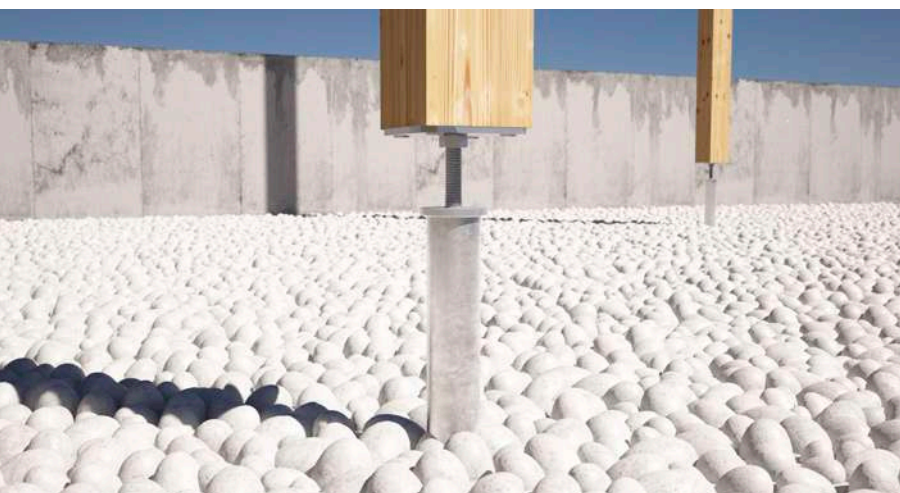
ADJUSTABLE

In the P20 version, the height can be adjusted as required.



CHARACTERISTICS

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



MATERIAL

Hot dip bright zinc plated carbon steel (P10) and Dac Coat zinc plating (P20).

FIELDS OF USE

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

- solid timber and glulam
- CLT, LVL



BALCONIES AND TERRACES

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

DISTANCE 300 mm

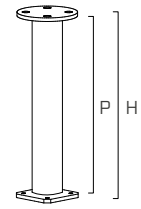
In the 500 mm height versions it guarantees a distance between the ground and the column head greater than 300 mm.

CODES AND DIMENSIONS

P10

S235
HOT DIP

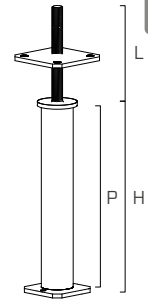
CODE	H [mm]	P [mm]	top plate [mm]	top holes [n. x mm]	bottom plate [mm]	pcs
P10300	312	300	Ø100 x 6	4 x Ø11,0	80 x 80 x 6	1
P10500	512	500	Ø100 x 6	4 x Ø11,0	80 x 80 x 6	1



P20

S235
DAC COAT

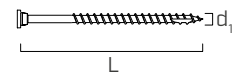
CODE	H [mm]	P [mm]	top plate [mm]	top holes [n. x mm]	bottom plate [mm]	rod Ø x L [mm]	pcs
P20300	312	300	100 x 100 x 8	4 x Ø11,0	80 x 80 x 6	M24 x 170	1
P20500	512	500	100 x 100 x 8	4 x Ø11,0	80 x 80 x 6	M24 x 170	1



HBS PLATE EVO

C4
EVO
COATING

CODE	d ₁ [mm]	L [mm]	b [mm]	TX	pcs
HBSPEVO880	8	80	55	TX 40	100



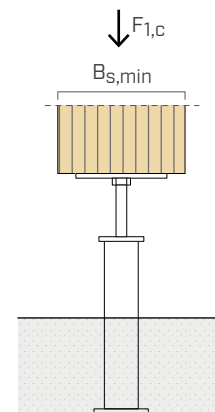
MATERIAL AND DURABILITY

P10: S235 carbon steel with hot galvanising.
P20: S235 carbon steel with special coating Dac Coat.
To be used in service classes 1, 2 and 3 (EN 1995-1-1).

FIELD OF USE

- Timber column drowned in the casting

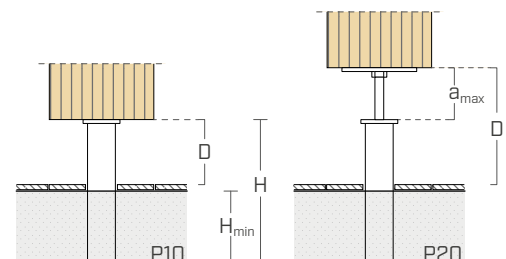
EXTERNAL LOADS



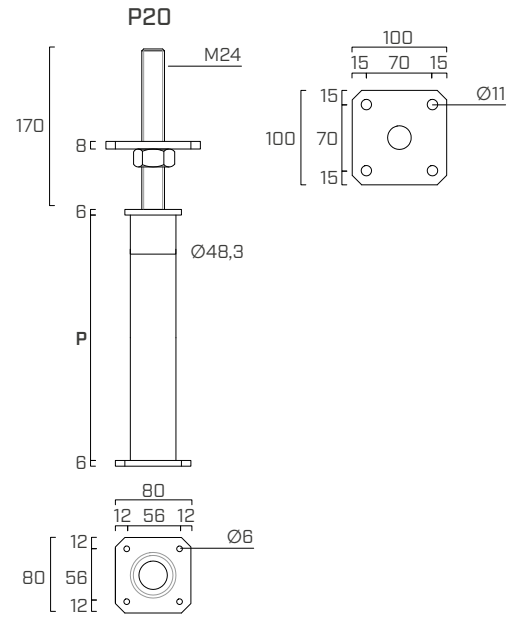
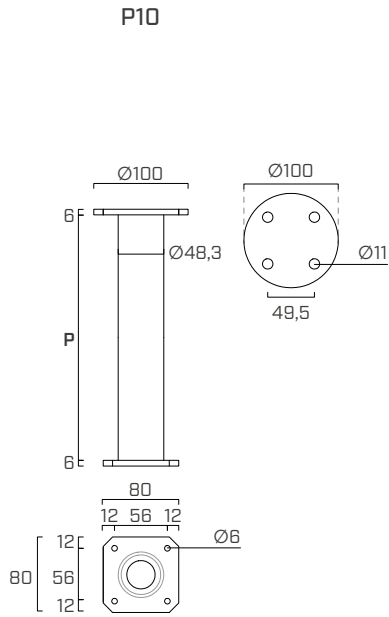
INSTALLATION ON CONCRETE

	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	226
	P20500	512	256	70	326

* a_{min} ≈ 25 ÷ 30 mm (upper plate + nut)

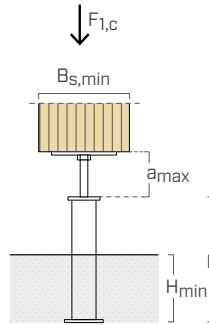


GEOMETRY



STATIC VALUES

COMPRESSION STRENGTH



P10

CODE	Bs,min [mm]	H [mm]	Hmin [mm]	R1,c k timber		R1,c k steel			
				[kN]	Ytimber	[kN]	Ysteel	[kN]	Ysteel
P10300	□ 100 x 100	312	156	98,6	YMT ⁽¹⁾	78,7	YM0	107,0	YM1
P10500	○ Ø100	512	256					99,3	

P20

CODE	Bs,min [mm]	H [mm]	Hmin [mm]	amax [mm]	R1,c k timber		R1,c k steel			
					[kN]	Ytimber	[kN]	Ysteel	[kN]	Ysteel
P20300	□ 100 x 100	312	156	70	93,7	YMT ⁽¹⁾	59,5	YM0	106,0	YM1
P20500	○ Ø100	512	256	70					106,0	

NOTES:

⁽¹⁾ YMT partial coefficient of the timber.

GENERAL PRINCIPLES:

- The characteristic values are in accordance with ETA-10/0422 and valid for a minimum anchoring depth in the concrete casting of Hmin.
- The design values are obtained from the characteristic values as follows:

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

The coefficients k_{mod} and y 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 ρ_k = 350 kg/m³ has been considered.
- Dimensioning and verification of timber and concrete elements must be carried out separately.