

R10 - R20 - R30

ADJUSTABLE POST BASE

S235
DAC COAT



CE
ETA 10/0422

ADJUSTABLE

Adjustable height, also after the product has been assembled. The regulation system is concealed by the sleeve, for optimal aesthetics.

RAISED

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

ATTENTION TO DETAILS

The base is characterized by an auxiliary hole allowing to insert the screws HBS PLATE EVO (included in the package).



CHARACTERISTICS

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

VIDEO

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



MATERIAL

Bright zinc plated carbon steel Dac Coat.

FIELDS OF USE

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

- solid timber and glulam
- CLT, LVL



STATICS

High compressive strength from the bigger product-versions. The versions with the pass-through rod ensures high resistance to tensile and compressive loading.

FUNCTIONALITY

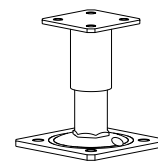
Once the assembly is completed, the adjustable height allows to correct any possible unevenness occurred during the installation phase.

CODES AND DIMENSIONS

R10

CODE	H [mm]	top plate [mm]	top holes [n. x mm]	bottom plate [mm]	lower holes [n. x mm]	screws HBS PLATE EVO	pcs
R1080	140-165	80 x 80 x 6	4 x Ø9	120 x 120 x 6	4 x Ø11,5	Ø6 x 90	4
R10100	170-205	100 x 100 x 6	4 x Ø11	160 x 160 x 6	4 x Ø11,5	Ø8 x 100	4
R10140	200-250	140 x 140 x 8	4 x Ø11	200 x 200 x 8	4 x Ø11,5	Ø8 x 100	4

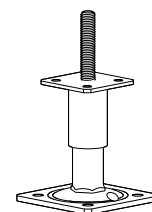
Screws included in the package.



R20

CODE	H [mm]	top plate [mm]	top holes [n. x mm]	bottom plate [mm]	lower holes [n. x mm]	rod Ø x L [mm]	screws HBS PLATE EVO	pcs
R2080	140-165	80 x 80 x 6	4 x Ø9	120 x 120 x 6	4 x Ø11,5	16 x 80	Ø6 x 90	4
R20100	170-205	100 x 100 x 6	4 x Ø11	160 x 160 x 6	4 x Ø11,5	20 x 120	Ø8 x 100	4
R20140	200-250	140 x 140 x 8	4 x Ø11	200 x 200 x 8	4 x Ø11,5	24 x 150	Ø8 x 100	4

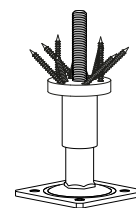
Screws included in the package.



R30 - DISC FLAT

CODE	H [mm]	top plate [mm]	bottom plate [mm]	lower holes [n. x mm]	rod Ø [mm]	LBS screws	pcs
R3080	150-170	Ø80 x 15	120 x 120 x 6	4 x Ø11,5	16	Ø7 x 60	4
R30120	180-210	Ø120 x 15	160 x 160 x 6	4 x Ø11,5	20	Ø7 x 80	4

Screws included in the package.



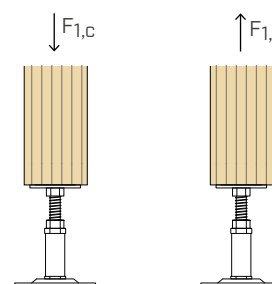
MATERIAL AND DURABILITY

TYP R: S235 carbon steel with special coating Dac Coat.
To be used in service classes 1, 2 and 3 (EN 1995-1-1).
Upper plate R30: bright zinc plated carbon steel.

FIELD OF USE

- Timber columns
- Timber beams

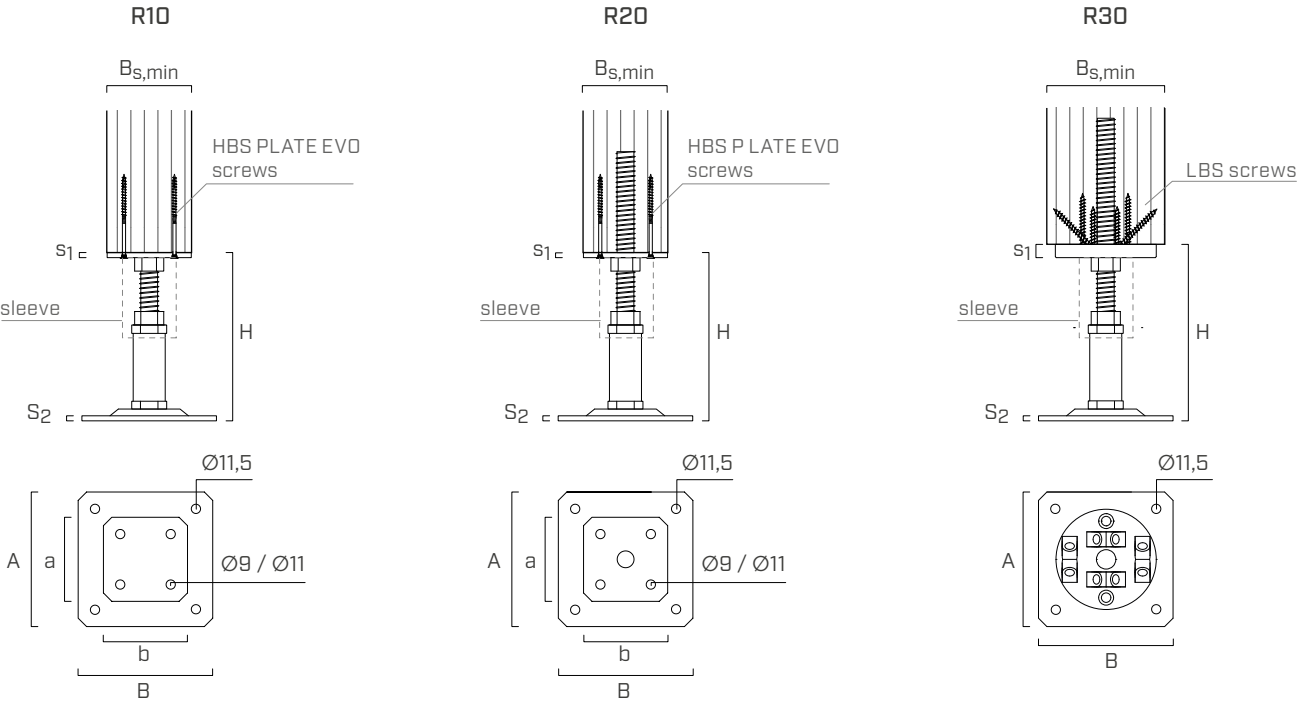
EXTERNAL LOADS



ADDITIONAL PRODUCTS - FASTENING

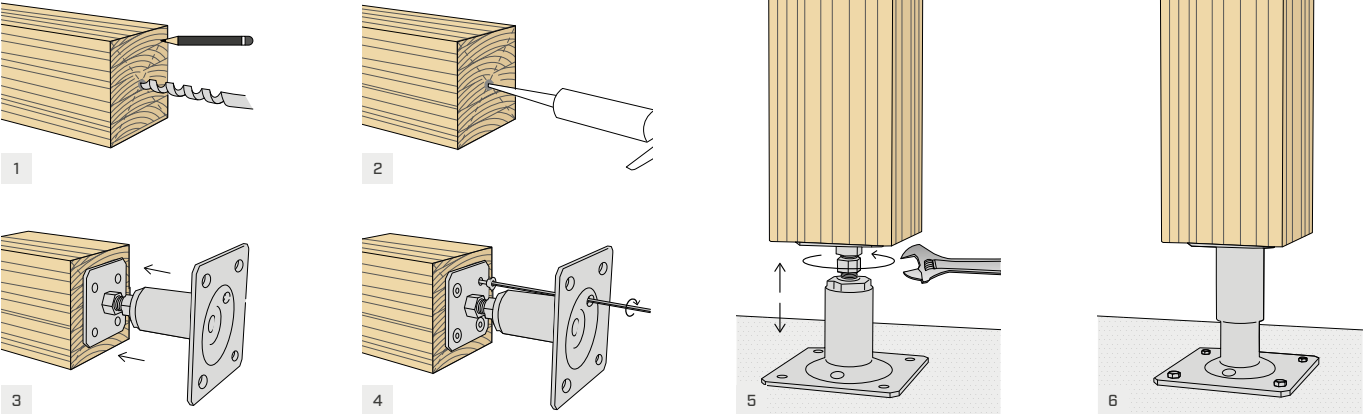
type	description		d [mm]	support	page
XEPOX D	epoxy adhesive		-		146
AB1 - AB1 A4	metal anchor		10		494 - 496
SKR	screw anchor		10		488
VIN-FIX PRO	chemical anchor		M10		511
EPO-FIX PLUS	chemical anchor		M10		517

GEOMETRY



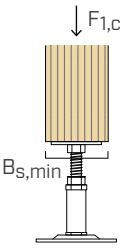
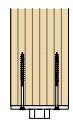
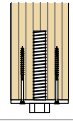
	CODE	B _{s,min} [mm]	A x B x S ₂ [mm]	H [mm]	a x b x s ₁ [mm]
R10	R1080	80	120 x 120 x 6	140-165	80 x 80 x 6
	R10100	100	160 x 160 x 6	170-205	100 x 100 x 6
	R10140	140	200 x 200 x 8	200-250	140 x 140 x 8
R20	R2080	80	120 x 120 x 6	140-165	80 x 80 x 6
	R20100	100	160 x 160 x 6	170-205	100 x 100 x 6
	R20140	140	200 x 200 x 8	200-250	140 x 140 x 8
R30	R3080	120	120 x 120 x 6	150-170	Ø80 x 15
	R30120	160	160 x 160 x 6	180-210	Ø120 x 15

ASSEMBLY

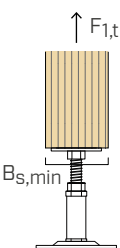
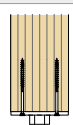
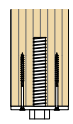


■ STATIC VALUES

COMPRESSION STRENGTH

stress	TYP R		fastening	column $B_{s,min}$ [mm]	$R_{1,c}$ k timber		$R_{1,c}$ k steel	
					[kN]	$\gamma_{timber}^{(1)}$	[kN]	γ_{steel}
	R10	R1080		80	71,2	γ_{MT}	48,3	γ_{M1}
		R10100		100	111,8		75,4	
		R10140		140	222,8		108,6	
	R20	R2080		80	55,8		48,3	
		R20100		100	90,4		75,4	
		R20140		140	189,0		108,6	
	R30	R3080		120	-	-	48,3	
		R30120		160	-	-	75,4	

TENSILE STRENGTH

stress	TYP R		fastening	column $B_{s,min}$ [mm]	$R_{1,t}$ k timber		$R_{1,t}$ k steel	
					[kN]	$\gamma_{timber}^{(1)}$	[kN]	γ_{steel}
	R10	R1080		100	4,2	γ_{MC}	-	-
		R10100		120	5,3		-	-
		R10140		160	5,3		-	-
	R20	R2080		100	16,1	γ_{MT}	-	-
		R20100		120	30,2		-	-
		R20140		160	45,2		-	-
	R30	R3080		120	18,7	γ_{MC}	24,3	γ_{M0}
		R30120		160	62,4		36,4	

NOTES:

⁽¹⁾ γ_{MT} partial coefficient of the timber; γ_{MC} partial coefficient for connections.

GENERAL PRINCIPLES:

- The characteristic values are in accordance with ETA-10/0422, except for the tensile values of R10 and R20 calculated as follows:
 - for R10 they are calculated considering the withdrawal resistance of HBS PLATE EVO screws parallel to the grain according to ETA-11/0030;
 - for R20 they are calculated considering only the withdrawal resistance of the threaded rod fixed with epoxy adhesive (XEPOXD400) and in accordance with DIN 1052: 2008.
- 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.

- 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.