

R10 - R20

ADJUSTABLE POST BASE

ADJUSTABLE AFTER INSTALLATION

The height is adjustable even after installation, thanks to the double thread system concealed by the sleeve, for optimum aesthetics.

RAISED

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

DURABILITY

DAC COAT coating ensures high aesthetic performance and durability in outdoor contexts.



USA, Canada and more design values available online.



VIDEO



SERVICE CLASS

SC1

SC2

SC3

MATERIAL

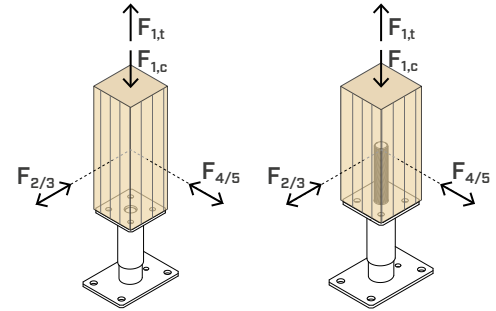


S235 carbon steel with special coating
DAC COAT

GROUND CLEARANCE

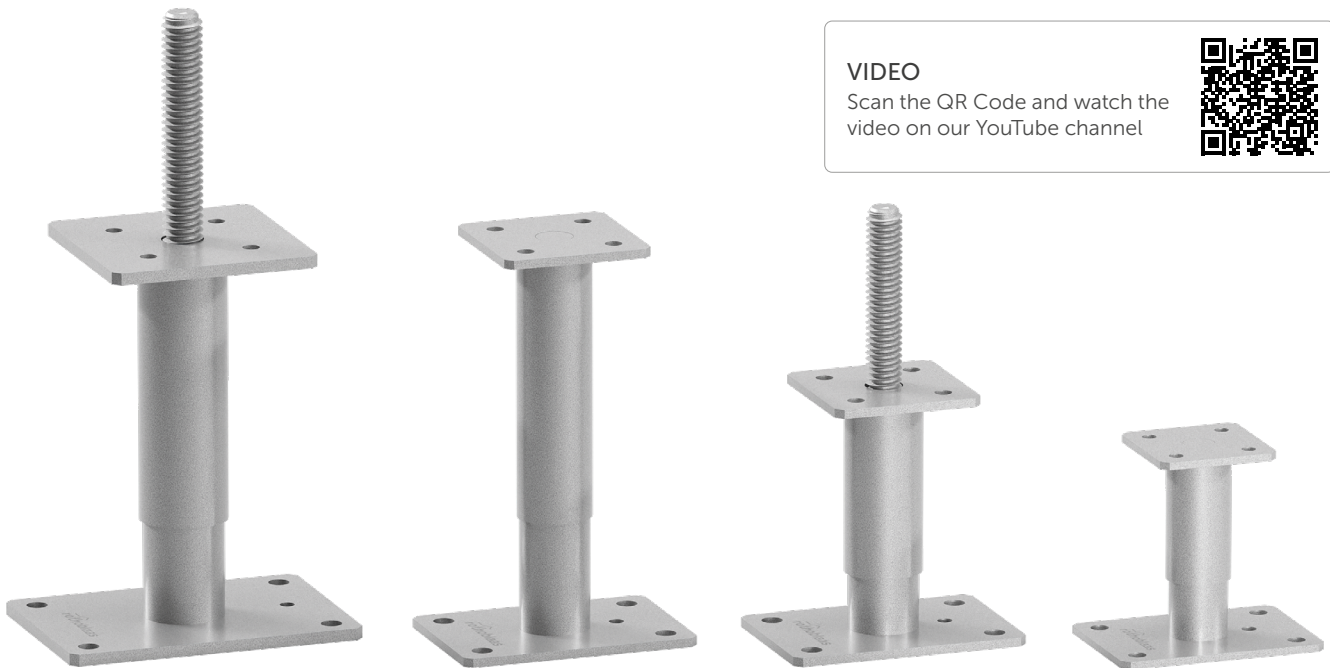
adjustable from 130 mm to 340 mm

EXTERNAL LOADS



VIDEO

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



FIELDS OF USE

Ground joints for columns, with the possibility of adjusting the support height after installation. Canopies, columns supporting roofs or floors.

Suitable for columns in:

- solid timber softwood and hardwood
- glulam, LVL



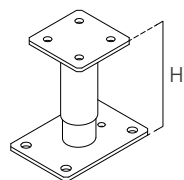
TENSION

High compressive and tensile strengths through the use of VGS all-thread screws or through-rod (in the R20 model).

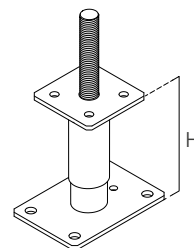
EASY INSTALLATION

The rectangular base plate allows for simplified installation of anchors and positioning of the column even close to the edges of the concrete.

CODES AND DIMENSIONS



R10



R20

R10

CODE	H [mm] [in]	top plate [mm] [in]	top holes [mm] [in]	bottom plate [mm] [in]	lower holes [mm] [in]	rod Ø [mm] [in]	screws ^(*)	pcs
R1080M	150 ± 20 6 ± 13/16	80 x 80 x 5 3 1/8 x 3 1/8 x 0.2	Ø9,5 Ø0.37	140 x 100 x 5 5 1/2 x 4 x 0.2	Ø12 Ø0.47	M20 0.79	HBSPEVO6 VGSEVO9 + HUSEVO8	4
R10100L	200 ± 30 8 ± 1 3/16	100 x 100 x 6 4 x 4 x 0.24	Ø11,5 Ø0.45	160 x 110 x 6 6 1/4 x 4 3/8 x 0.24	Ø14 Ø0.55	M24 0.95	HBSPLEVO8	4
R10100XL	300 ± 30 11 3/4 ± 1 3/16	100 x 100 x 6 4 x 4 x 0.24	Ø11,5 Ø0.45	160 x 110 x 6 6 1/4 x 4 3/8 x 0.24	Ø14 Ø0.55	M24 0.95	HBSPLEVO8	4
R10140XL	300 ± 40 11 3/4 ± 1 9/16	140 x 140 x 8 4 x 4 x 0.24	Ø11,5 Ø0.45	200 x 140 x 8 8 x 5 1/2 x 0.31	Ø14 Ø0.55	M27 1.07	HBSPLEVO8	4

(*)Screws are not included and must be ordered separately.

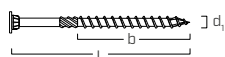
R20

CODE	H [mm] [in]	top plate [mm] [in]	top holes [mm] [in]	bottom plate [mm] [in]	lower holes [mm] [in]	rod Ø x L [mm] [in]	screws ^(*)	pcs
R2080M	150 ± 20 6 ± 13/16	80 x 80 x 5 3 1/8 x 3 1/8 x 0.2	Ø9,5 Ø0.37	140 x 100 x 5 5 1/2 x 4 x 0.2	Ø12 Ø0.47	M20 x 80 0.79 x 3 1/8	HBSPEVO6 VGSEVO9 + HUSEVO8	4
R20100L	200 ± 30 8 ± 1 3/16	100 x 100 x 6 4 x 4 x 0.24	Ø11,5 Ø0.45	160 x 110 x 6 6 1/4 x 4 3/8 x 0.24	Ø14 Ø0.55	M24 x 120 0.95 x 4 3/4	HBSPLEVO8	4
R20140XL	300 ± 40 11 3/4 ± 1 9/16	140 x 140 x 8 4 x 4 x 0.24	Ø11,5 Ø0.45	200 x 140 x 8 8 x 5 1/2 x 0.31	Ø14 Ø0.55	M27 x 150 1.07 x 6	HBSPLEVO8	4

(*)Screws are not included and must be ordered separately.

FASTENERS

HBS P EVO - C4 EVO pan head screw



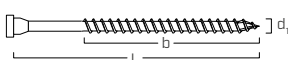
d ₁ [mm]	CODE	L [mm]	b [mm]	pcs
6 TX 30	HBSPEVO680	80	50	100

HUS EVO - C4 EVO turned washer



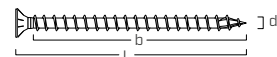
CODE	d _{HBS EVO} [mm]	d _{VGs EVO} [mm]	pcs
HUSEVO8	8	9	50

HBS PLATE EVO - C4 EVO pan head screw



d ₁ [mm]	CODE	L [mm]	b [mm]	pcs
8 TX 40	HBSPLEVO880	80	55	100
	HBSPLEVO8160	160	130	100

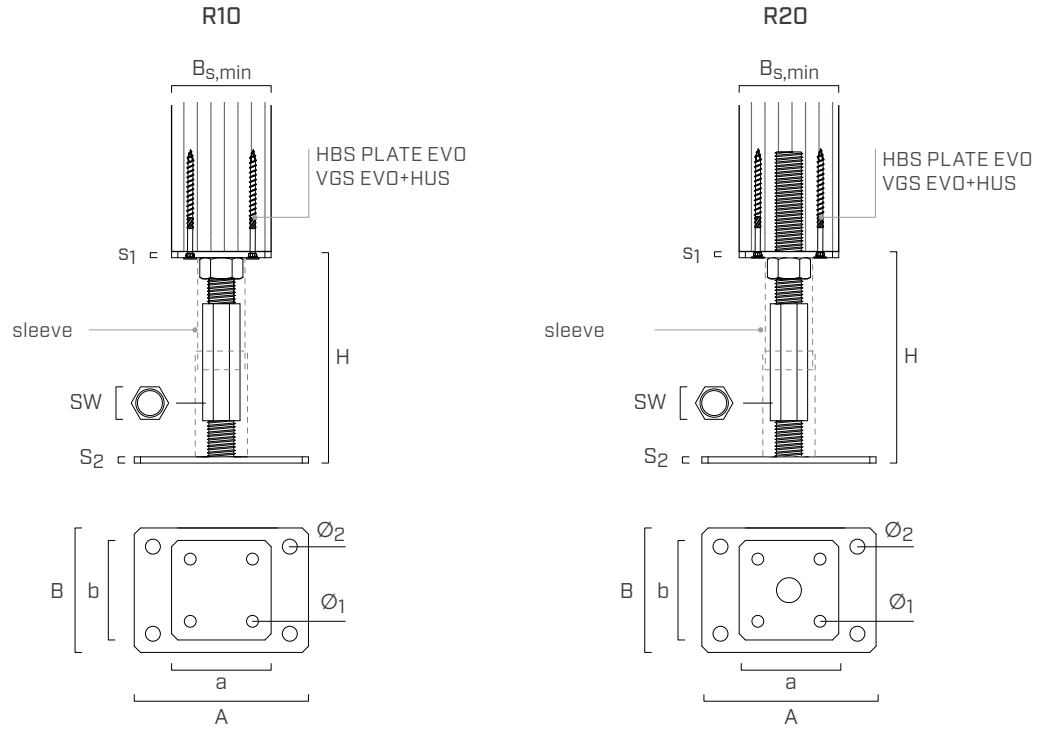
VGs EVO - C4 EVO fully threaded screw with countersunk head



d ₁ [mm]	CODE	L [mm]	b [mm]	pcs
9 TX 40	VGSEVO9120	120	110	25

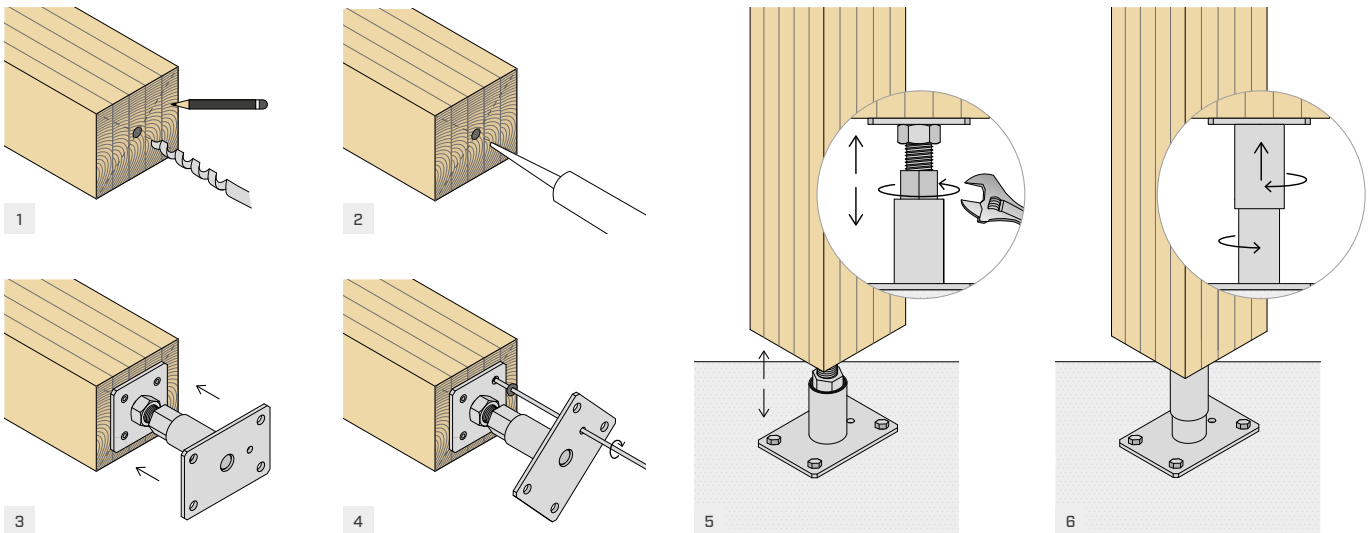
type	description	d [mm]	support	page
XEPOX F	epoxy adhesive	-		136
SKR/SKR EVO	screw-in anchor	10 - 12		528
AB1	CE1 expansion anchor	10 - 12		536
ABE A4 ^(*)	CE1 expansion anchor	12		534
VIN-FIX	vinyl ester chemical anchor	M10 - M12		545

(*)Fastening only possible on R10140XL and R20140XL.



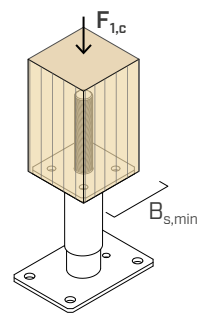
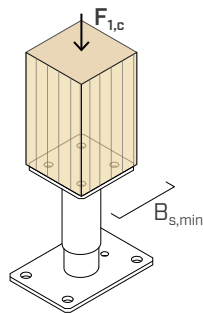
	CODE	$B_{s,min}$ [mm]	H [mm]	$a \times b \times s_1$ [mm]	$\varnothing_1$ [mm]	SW [mm]	$A \times B \times S_2$ [mm]	$\varnothing_2$
R10	R1080M	80	150 ± 20	$80 \times 80 \times 5$	$\varnothing 9,5$	30	$140 \times 100 \times 5$	$\varnothing 12$
	R10100L	100	200 ± 30	$100 \times 100 \times 6$	$\varnothing 11,5$	36	$160 \times 110 \times 6$	$\varnothing 14$
	R10100XL	100	300 ± 30	$100 \times 100 \times 6$	$\varnothing 11,5$	36	$160 \times 110 \times 6$	$\varnothing 14$
	R10140XL	140	300 ± 40	$140 \times 140 \times 8$	$\varnothing 11,5$	41	$200 \times 140 \times 8$	$\varnothing 14$
R20	R2080M	80	150 ± 20	$80 \times 80 \times 5$	$\varnothing 9,5$	30	$140 \times 100 \times 5$	$\varnothing 12$
	R20100L	100	200 ± 30	$100 \times 100 \times 6$	$\varnothing 11,5$	36	$160 \times 110 \times 6$	$\varnothing 14$
	R20140XL	140	300 ± 40	$140 \times 140 \times 8$	$\varnothing 11,5$	41	$200 \times 140 \times 8$	$\varnothing 14$

MOUNTING



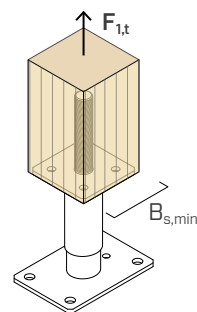
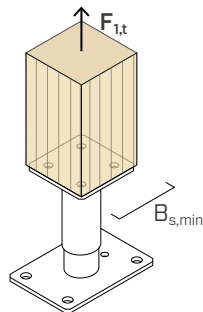
STRUCTURAL VALUES

COMPRESSION STRENGTH



post base		column $B_{s,min}$ [mm]	$R_{1,c}$ k timber		$R_{1,c}$ k steel	
			[kN]	γ_{timber}	[kN]	γ_{steel}
R10	R1080M	80	128,0	$\gamma_{MT}^{(1)}$	66,0	γ_{M1}
	R10100L	100	201,0		98,4	
	R10100XL	100	201,0		71,8	
	R10140XL	140	403,0		107,0	
R20	R2080M	80	122,0	$\gamma_{MT}^{(1)}$	66,3	γ_{M1}
	R20100L	100	192,0		98,4	
	R20140XL	140	391,0		119,0	

TENSILE STRENGTH



post base		fastening	column $B_{s,min}$ [mm]	$R_{1,t}$ k timber		$R_{1,t}$ k steel	
				[kN]	γ_{timber}	[kN]	γ_{steel}
R10	R1080M	HBSPEVO680 VGSEVO9120+HUSEVO8	80	4,2 13,9	$\gamma_{MC}^{(2)}$	11,6	γ_{M0}
	R10100L	HBSPLEVO880 HBSPLEVO8160	100	6,2 14,6		10,6	
	R10100XL	HBSPLEVO880 HBSPLEVO8160	100	6,2 14,6		10,6	
	R10140XL	HBSPLEVO880 HBSPLEVO8160	140	6,2 14,6		17,4	
R20	R2080M	HBSPEVO680 VGSEVO9120+HUSEVO8	80	4,2 13,9	$\gamma_{MC}^{(2)}$	11,6	γ_{M0}
	R20100L	HBSPLEVO880 HBSPLEVO8160	100	6,2 14,6		10,6	
	R20140XL	HBSPLEVO880 HBSPLEVO8160	140	6,2 14,6		17,4	

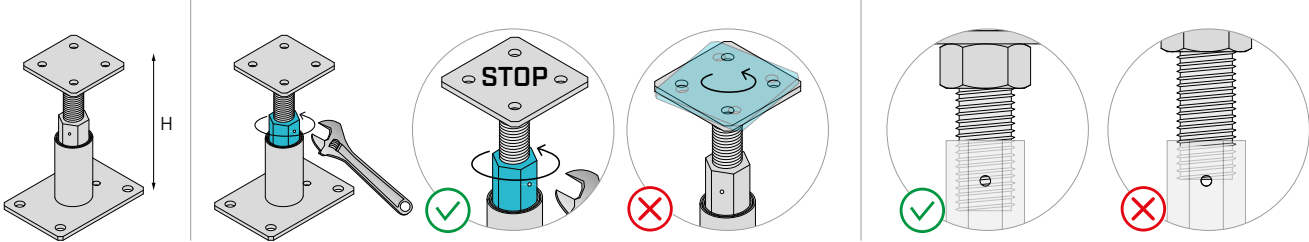
STRUCTURAL VALUES

SHEAR STRENGTH



post base		column	$R_{2/3 \text{ k steel}} = R_{4/5 \text{ k steel}}$	
		$B_{s,min}$	[kN]	γ_{steel}
		[mm]		
R10	R1080M	80	1,6	γ_{M0}
	R10100L	100	2,1	
	R10100XL	100	1,3	
	R10140XL	140	1,7	
R20	R2080M	80	1,6	γ_{M0}
	R20100L	100	2,1	
	R20140XL	140	1,8	

ADJUSTMENT METHODS



NOTES

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

INTELLECTUAL PROPERTY

- Some models of the R10 and R20 post bases are protected by the following Registered Community Designs:
 - RCD 015051914-0002;
 - RCD 015051914-0003.

GENERAL PRINCIPLES

- Characteristic values are consistent with EN 1995-1-1:2014 and in accordance with ETA-10/022. Timber-side tensile strength values are calculated considering the pull-out strength of HBS PLATE EVO and VGS EVO screws parallel to the grain according to ETA-11/0030.
- 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.

- 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.