# R80

## ADJUSTABLE POST BASE

### ADJUSTABLE AFTER INSTALLATION
The double-threaded system with hexagonal tensioner allows height adjustment even after assembly.

### "U" SHAPED
The "U" shaped plate can be easily fixed to the side of the column using nails or small-diameter screws.

### DURABILITY
The spacing between the post base and the ground prevents water splashes and stagnation, ensuring greater durability. The DAC COAT coating enhances corrosion resistance and improves aesthetics in outdoor environments.

### CLOSE-SPACED ANCHORS
The base plate, with dual anchor holes, allows post base installation even close to the edge of the concrete support.

**SERVICE CLASS** SC1 SC2 SC3

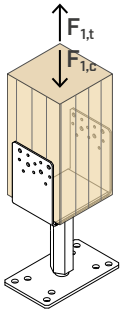
**MATERIAL**

S235 DAC COAT — S235 carbon steel with special coating DAC COAT

**GROUND CLEARANCE**

adjustable from 170 mm to 230 mm

**EXTERNAL LOADS**








## FIELDS OF USE

Ground joints for columns, with the possibility of adjusting the support height even after installation.
Suitable for canopies and columns supporting roofs or floor slabs.

Suitable for columns in:
- solid timber (softwood and hardwood)
- glulam and LVL





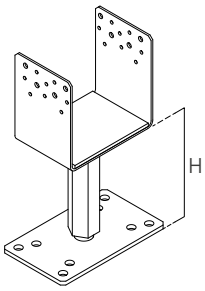
## EASY INSTALLATION

The rectangular base plate facilitates anchor installation and allows colum placement close to concrete edges.

## RAISED PLATE

The raised plate maintains the minimum required spacing for screws or nails, even when a 38 mm horizontal wooden spacer is inserted.

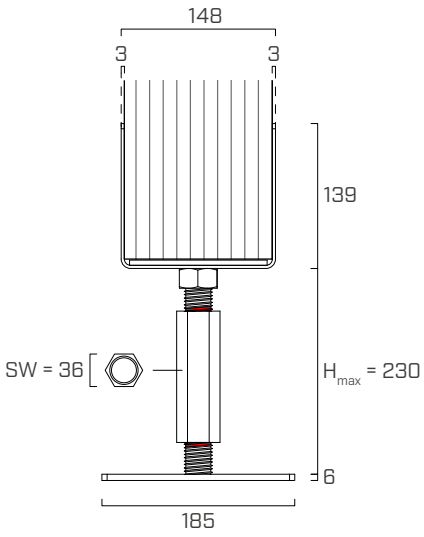
## CODES AND DIMENSIONS

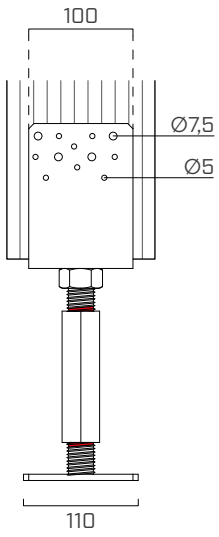


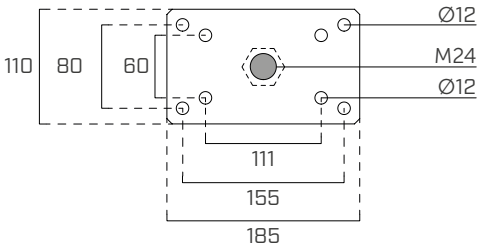

| CODE | H [mm] | top plate [mm] | top holes [n x mm] | bottom plate [mm] | lower holes [n x mm] | rod Ø [mm] | screws(*) |
|---|---|---|---|---|---|---|---|
| **R80100L** | 200 ± 30 | 148 x 100 x 139 x 3 | 16 x Ø5 - 8 x Ø7,5 | 185 x 110 x 6 | 6 x Ø12 | M24 | LBSEVO Ø5<br>LBSEVO Ø7 |

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

## GEOMETRY



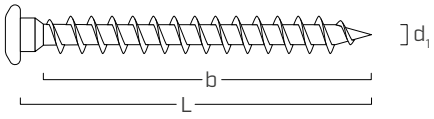




## FASTENERS

C4 EVO COATING

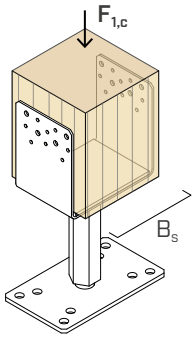
**LBS EVO** - round head screw for plates

| $d_1$ [mm] | CODE | L [mm] | b [mm] | pcs |
|---|---|---|---|---|
| 5 TX 20 | **LBSEVO570** | 70 | 66 | 100 |
| 7 TX 30 | **LBSEVO780** | 80 | 75 | 100 |



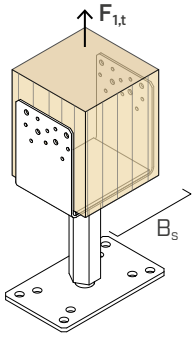
## STRUCTURAL VALUES

### COMPRESSION STRENGTH




| post base | column | | $R_{1,c\ k\ steel}$ | |
|---|---|---|---|---|
| | $B_s$ [mm] | $L_{s,min}$ [mm] | [kN] | $\gamma_{steel}$ |
| **R80100L** | 140 | 140 | **98,4** | $\gamma_{M1}$ |

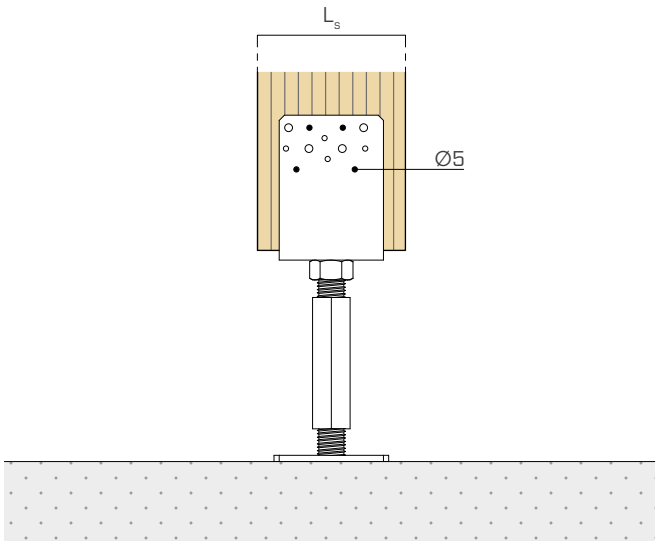
### TENSILE STRENGTH



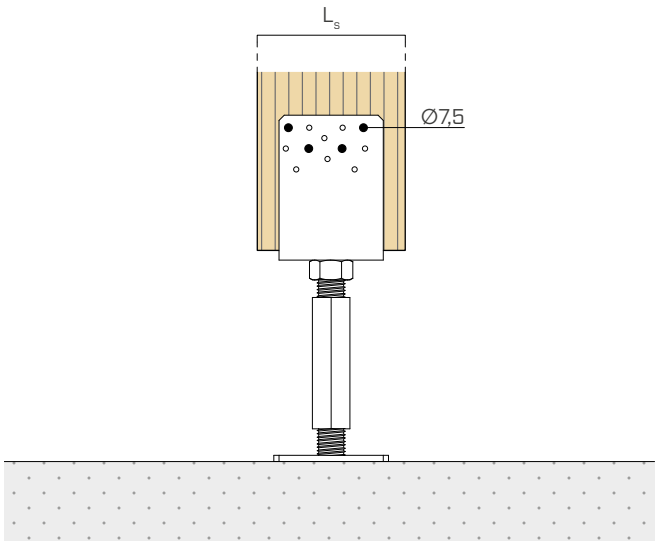

| post base | column | | configuration | fastening | $R_{1,t\ k\ timber}$ | | $R_{1,t\ k\ steel}$ | |
|---|---|---|---|---|---|---|---|---|
| | $B_s$ [mm] | $L_{s,min}$ [mm] | | | [kN] | $\gamma_{timber}$ | [kN] | $\gamma_{steel}$ |
| **R80100L** | 140 | 140 | pattern 1 | LBSEVO570 | **17,6** | $\gamma_{MC}$ (1) | **12,4** | $\gamma_{M0}$ |
| | | | pattern 2 | LBSEVO780 | **19,4** | | **12,4** | |

(1) $\gamma_{MC}$ connections partial coefficient.

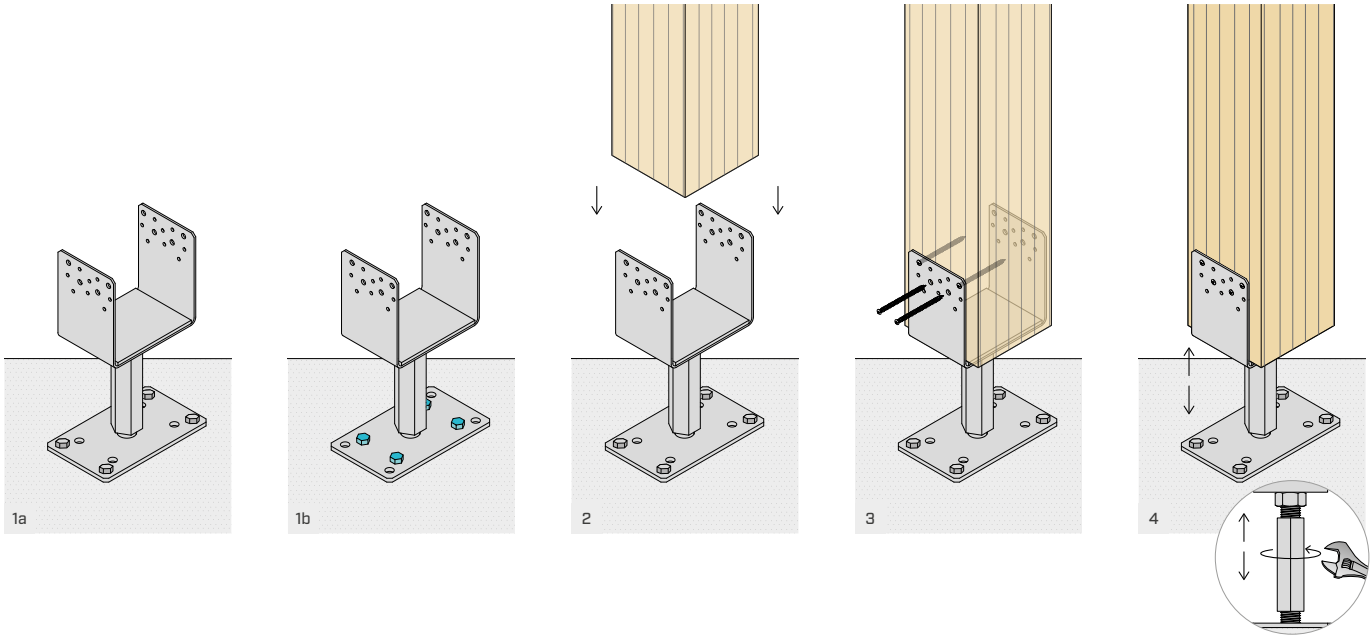
**pattern 1**



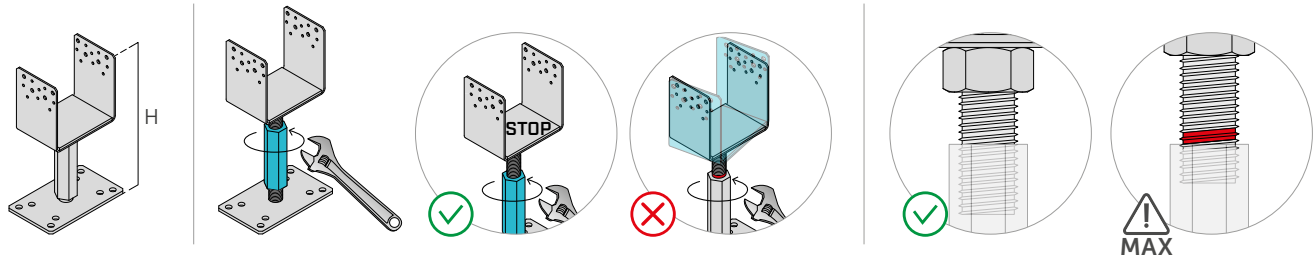

**pattern 2**



## MOUNTING




### ADJUSTMENT METHODS




### NOTES

(1) $\gamma_{MC}$ partial coefficient for connections.

### GENERAL PRINCIPLES

- Characteristic values according to EN 1995-1-2014.
- The tensile strength values of the post base on the timber side are calculated considering the shear resistance perpendicular to the grain of LBS EVO screws, in accordance with ETA-11/0030.
- Design values can be obtained from characteristic values as follows:

$$R_d = min \begin{cases} \frac{R_{i,k\ timber} \cdot k_{mod}}{\gamma_M} \\ \frac{R_{i,k\ steel}}{\gamma_{Mi}} \end{cases}$$

The coefficients $k_{mod}$, $\gamma_M$ and $\gamma_{Mi}$ must be applied according to the current design standards.

- For the calculation process a timber density $\rho_k$ = 350 kg/m$^3$ has been considered.
- Timber and concrete elements must be sized and checked separately.