

Technical data sheet

SIMPSON

Strong-Tie

PIG

Column shoe Type I - PI

This foot pillars are galvanized and are suitable for mounting wooden pilots to basics.

Features

Material

Steel quality:

S 235 JR according to DIN EN 10025

Corrosion protection:

Galvanizing layer thickness of about 55 microns in accordance with DIN EN 1461

Benefits

- footing post PI are used directly in concrete and absorb forces in compression, tensile and horizontal forces.
- These barely visible beads were developed as an alternative or a supplement to the beads PPD.
- allow secure and easy to install.
- Constructive wood protection is very good.
- Feet are made in one size: mainly for fixing the carrier with dimensions of 100 × 100, 120 × 120 and 140 × 140th

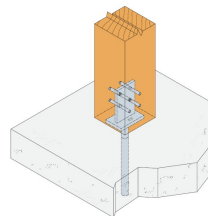
Applications

Applicatons

Wood, wood products, concrete

Scope

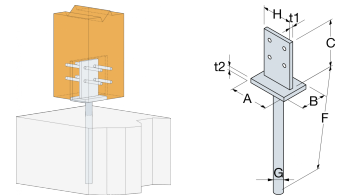
- Especially designed for use in lightweight structures, such as garages covers, pergolas, terraces and the like.



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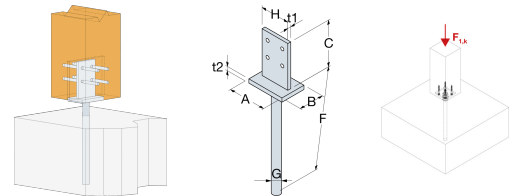
Technical Data

Product Dimensions



References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]								Holes	Box Quantity	Weight [kg]
			A	B	C	F	G	H	t ₁	t ₂	Ø8.5		
PIG	7742257	21594338	90	60	110	250	20	70	8	10	4	10	1.4

Capacities



References	Number of Fasteners		Characteristic capacities - Timber C24 [kN]															
	On post		R _{1,k}	R _{2,k}				R _{3,k}				R _{4,k}						
	Qty	Type		Width of post [mm]				Width of post [mm]				Width of post [mm]						
				60	80	100	120	60	80	100	120	60	80	100	120	140	160	
PIG	4	STD8xL	54.5/kmod	13.8	16	18.7	20.7	min (9.4 ; 7.9/kmod)	min (10.9 ; 7.9/kmod)	min (12.7 ; 7.9/kmod)	7.9/kmod	3.1	4.1	min (5.9 ; 5.3/kmod)	min (7.9 ; 5.4/kmod)	min (9.4 ; 5.7/kmod)	6.4	

Load combination:

$$\sum \frac{F_{i,d}}{R_{i,d}} \leq 1$$

Product characteristic capacities - Simplified values

References	Number of Fasteners		Simplified product capacities - Timber to concrete														
	On post		R _{1,k} *	R _{2,k} *				R _{3,k} *				R _{4,k} *					
	Qty	Type		Width of post [mm]				Width of post [mm]				Width of post [mm]					
				60	80	100	120	60	80	100	120	60	80	100	120	140	160
PIG	4	STD8xL	77.8	13.8	16	18.7	20.7	9.4	10.9	11.3	11.3	3.1	4.1	5.9	7.9	8.1	9

*The published characteristic capacity is based on medium term load duration and service class 3 according to EC5 (EN 1995) (k_{mod} = 0.7). For other load duration and service class, please refer to the ETA to get more accurate capacities.

**Refer to the Simpson Strong-Tie anchor product range for suitable anchors. Typical anchor solutions depend on the concrete type, spacing and edge distances.

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Installation

Fasteners

- **These shoes are concreted.**
- **The distance between the pressure plate to the concrete should not exceed 50 mm.**
- **Port on wood is done with dowels Ø8**

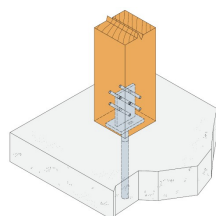
Installation

Upper part :

1. Make a vertical notch in the column (width depending on the thickness of the vertical plate),
2. Identify the position of the dowels (or bolts) on the sides of the column,
3. Drill transversely the column to insert the dowels (drilling diameter depending on the diameter of the dowels),
4. Position the postbase and insert the dowels.

Lower part :

1. Fix the postbase to the column,
2. Drill the support vertically, to the recommended diameter and depth,
3. Put the post in place and finalize the fixing to the ground by means of sealing,
4. The postbase can also be embedded in the concrete at the moment when the latter is poured.



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