

Technical data sheet

SIMPSON

Strong-Tie

PPD

PPD column shoes U

The column shoes U sealing PPD have been designed to facilitate assembly. The installation in concrete requires reservations but adjusts the levels before pouring the concrete.

Features

Material

Steel quality:

S 235 JR according to DIN EN 10025

Corrosion protection:

completely galvanized after processing; Zinc coating thickness about 55 microns in accordance with DIN EN 1461

Benefits

- The support feet are made of U-shaped steel plates 37 St. where a ribbed bar is welded and completely galvanized after completion.
- They allow secure fixings and are easy to assemble.

Applications

Applicatons

In Stock:

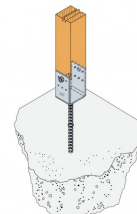
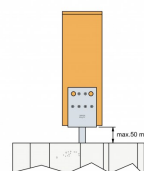
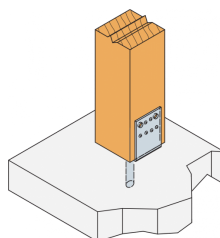
- Concrete

Component:

- Wood, wood products

Scope

- They are primarily intended for use in lightweight constructions, such as in pergolas and terraces.

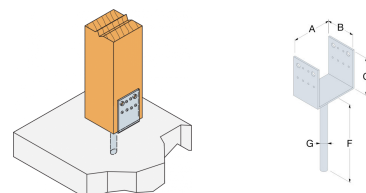


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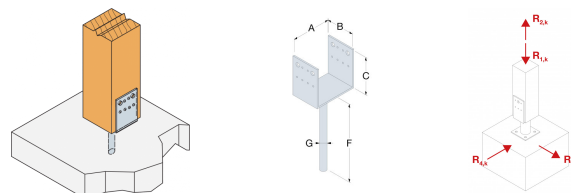
Technical Data

Product Dimensions



References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]							Holes		Box Quantity	Weight [kg]
			A	B	C	F	G	t	Ø5	Ø13.5			
PPD50/40G	5653795	24942922	50	40	120.5	250	16	5	8	2	20	0.85	
PPD80/70G	2856730	21219563	80	70	121.5	250	16	5	10	2	15	1.3	
PPD90/90G	8978132	21594247	90	90	136.5	250	20	5	12	4	10	1.9	
PPD100/70G	8978041	21594270	100	70	121.5	250	16	5	10	2	10	1.4	
PPD100/90G-R	1452519	21594288	100	90	131.5	250	20	5	12	4	10	1.9	
PPD120/90G-FR	5104553	43899584	120	90	121.5	250	20	5	12	4	10	1.9	
PPD140/90G-R	8978082	21594312	140	90	121.5	250	20	5	12	4	10	2	
PPD148/90G-R	1452525	43975472	148	90	117.5	250	20	5	12	4	6	2	

Product characteristic capacities



References	Product capacities - Timber to Concrete						
	Number of Fasteners		Characteristic capacities - Timber C24 [kN]				
	On post		R _{1,k}		R _{2,k}	R _{3,k}	R _{4,k}
	Qty	Type	Concrete strength class				
			C12/15	C20/25			
PPD50/40G	8	CNA Ø4,0x40	min (42.0 ; 28.0/kmod)	40.9/kmod	min (14.7 ; 12.2/kmod)	3.4/kmod	min (8.3 ; 5.8/kmod)
PPD80/70G	10	CNA Ø4,0x40	28.0/kmod	min (81.9 ; 40.9/kmod)	min (18.4 ; 11.4/kmod)	3.7/kmod	min (10.9 ; 5.8/kmod)
PPD90/90G	12	CNA Ø4,0x40	36.9/kmod	min (78.4 ; 54.5/kmod)	min (22.0 ; 13.4/kmod)	6.4/kmod	min (18.7 ; 11.4/kmod)
PPD100/70G	10	CNA Ø4,0x40	28.0/kmod	40.9/kmod	8.7/kmod	3.7/kmod	5.8/kmod
PPD100/90G-R	12	CNA Ø4,0x40	36.9/kmod	min (99.4 ; 54.5/kmod)	min (22.0 ; 11.7/kmod)	6.6/kmod	min (18.7 ; 11.4/kmod)
PPD120/90G-FR	12	CNA Ø4,0x40	36.9/kmod	54.5/kmod	9.4/kmod	7.2/kmod	11.4/kmod
PPD140/90G-R	12	CNA Ø4,0x40	36.9/kmod	min (102.2 ; 54.5/kmod)	7.8/kmod	7.2/kmod	11.4/kmod
PPD148/90G-R	12	CNA Ø4,0x40	36.9/kmod	min (99.9 ; 54.5/kmod)	7.3/kmod	7.3/kmod	11.4/kmod

Combined load:

$$\left(\frac{F_{1,d}}{R_{1,d}} \right) + \left(\frac{H_{i,d}}{R_{H,i,d}} \right) \leq 1 \quad \text{or}$$

$$\left(\frac{F_{2,d}}{R_{2,d}} \right)^2 + \left(\frac{H_{i,d}}{R_{H,i,d}} \right)^2 \leq 1$$

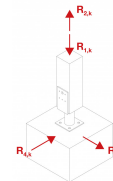
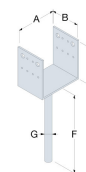
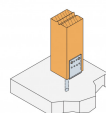
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Product simplified characteristic capacities

References	Simplified product capacities - Timber to Concrete						
	Number of Fasteners		Simplified characteristic capacities - Timber C24 [kN]				
	On post		R _{1.k} *		R _{2.k} *	R _{3.k} *	R _{4.k} *
	Qty	Type	Concrete strength class				
			C12/15	C20/25			
PPD80/70G	10	CNA Ø4,0x40	43	62.9	17.5	5.7	8.9
PPD100/70G	10	CNA Ø4,0x40	43	62.9	12.4	5.6	8.9
PPD120/90G-FR	12	CNA Ø4,0x40	56.7	83.8	14.4	11	17.5
PPD140/90G-R	12	CNA Ø4,0x40	56.7	83.6	12	11	17.5

* 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

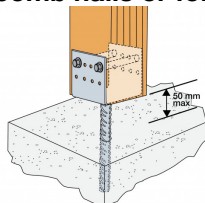
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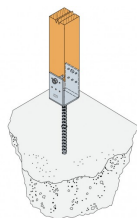
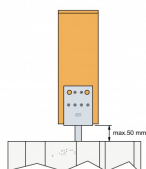
Installation

Fasteners

- The PPD column bases are used directly in the concrete, the connection of the props by means CNA comb nails or for constructive mounting with bolts.



Fixation du PPD au support rigide par scellement.



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