

Technical data sheet

SIMPSON

Strong-Tie

PFU

PFU - purlin anchor

PFU connectors may be used for bracing the crossing beams. Similarly, the horizontal forces can be absorbed.

Depending on the load can be 2 or 4 connectors for connection. Connections are 2 left and 2 right at the junction

PFU are sold in sets.

Features

Material

Steel quality:

S250GD + Z275 according to DIN EN10346

Corrosion protection:

275 g / m galvanized on both sides 20mm

Benefits

- **Designed to withstand tensile loads, loads more possible in horizontal directions.**
- **Installation maybe 2 or 4 connectors for connection.**
- **Low number of nails, 1-hole line every foot.**
- **The installation easier**

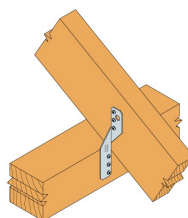
Applications

Applicable materials

Wood, wood products

Application area

- **Wood / wood joints, particularly in intersecting roof structures.**

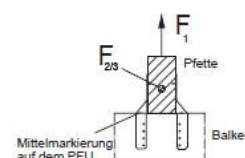
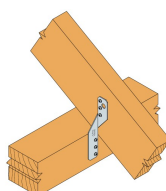


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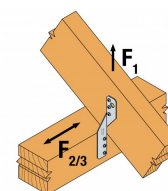
Technical Data

Dimensions



References	DB. nr.	NOB nr.	Dimensions [mm]			Holes		Qty per box	Weight [kg]
			A	B	t	Ø	Qty		
PFU170	1837235	44492696	170	30	2	5	3 + 3	100	0.076
PFU210	5385351	42290284	210	30	2	5	4 + 4	100	0.094
PFU250	1264631	44492700	250	30	2	5	5 + 5	100	0.11

Load Capacity Table (characteristic values)



References	Characteristic load-bearing capacity, two beam anchor price. collection [kN]							
	CNA4,0x40 [2 nails per flange]		CNA4,0x40 [3 nails per flange]		CNA4,0x40 [4 nails per flange]		CNA4,0x40 [5 nails per flange]	
	R _{1,k} - min of:	R _{2,k} =R _{3,k} - min of:	R _{1,k} - min of:	R _{2,k} =R _{3,k} - min of:	R _{1,k} - min of:	R _{2,k} =R _{3,k} - min of:	R _{1,k} - min of:	R _{2,k} =R _{3,k} - min of:
PFU170	5.5; 10.4/kmod	0.8;	9.5; 10.4/kmod	2	-	-	-	-
PFU210	-	-	9.6; 14.6/kmod	1.5	13.6; 14.6/kmod	3.1	-	-
PFU250	-	-	-	-	13.6; 14.6/kmod	2.6	17.6; 14.6/kmod	4.5

K_{mod} is the modification factor for the load group to which the required load capacity belongs. If the ridge is prevented from rotating, the load capacity $R_{1,k}$, in an assembly with only one PFU beam anchor, will be half of the load capacity.

$R_{2,k} = R_{3,k}$: it is assumed that the force acts max. 20 mm above the beam. Nails are placed as close to the underside of the ridge/top of the beam, taking into account minimum edge distances. When using 4 PFU beam anchors per joint, the table values can be doubled.

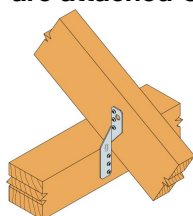
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Installation

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- They are attached CNA4,0xℓ nails or screws CSA5,0xℓ.



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