

Technical data sheet

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SIMPSON
Strong-Tie

These brackets are suitable for horizontal support and tilted insurance purlins.

Features

Material

Steel quality:

S250GD + Z275 according to DIN EN10346

Corrosion protection:

275 g / m galvanized on both sides 20mm

Benefits

- **Optimal for joint beams and purlins in pitched roof structures.**
- **Ensuring purlins against tipping on inclined media**

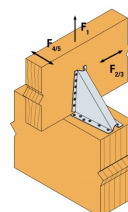
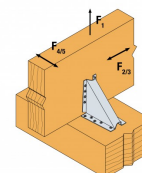
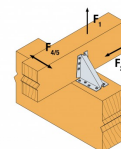
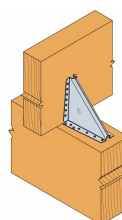
Applications

Applicatons

Wood, wood products

Scope

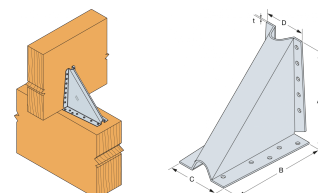
- Ensuring purlins against tipping on inclined trusses and beams.
- Optimal for joint beams and purlins in pitched roof structures.



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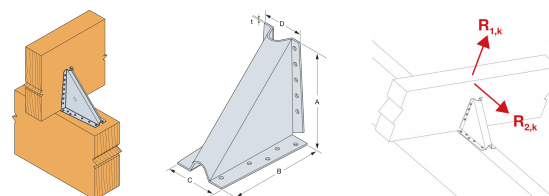
Technical Data

Product Dimensions



References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]						Joist Ø5	Holes flange B Ø5	Box Quantity	Weight [kg]
			A	B	C	D	E	t				
KNAG90	-	-	90	90	43	55	69	2	6	8	-	0.3
KNAG90-B	1579879	21221239	90	90	43	55	69	2	6	8	50	0.3
KNAG130	1585755	46450365	125	125	52	66	79	2	9	10	30	0.44
KNAG170	1585756	44492632	160	160	52	72	93	2	11	12	20	0.63
KNAG210-B	1579903	21221262	200	200	54	67	100	2	14	14	15	1.1

Product capacities



References	Number of Fasteners				Characteristic capacities - Timber C24 - 1 angle bracket per connection [kN]						
	Joist		Flange B		R _{1,k}			R _{2,k}			
	Qty	Type	Qty	Type	f = 20 mm	f = 40 mm	f = 50 mm	e = 100 mm	e = 140 mm	e = 180 mm	e = 220 mm
KNAG90	6	CNA4,0x40	8	CNA4,0x60	4	2.1	1.6	1.8	1.2	0.8	0.6
KNAG90-B	6	CNA4,0x40	8	CNA4,0x60	4	2.1	1.6	1.8	1.2	0.8	0.6
KNAG130	9	CNA4,0x40	10	CNA4,0x60	4.6	3.9	3.7	4.4	3.1	2.3	1.6
KNAG170	11	CNA4,0x40	12	CNA4,0x60	5.8	5.1	4.9	7.5	5.3	4.1	3.4
KNAG210-B	14	CNA4,0x40	14	CNA4,0x60	7	6.3	6	11.4	8.1	6.3	5.2

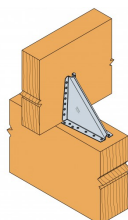
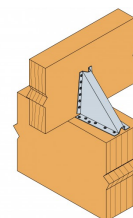
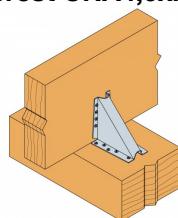
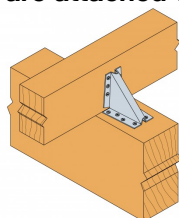
$$\left(\frac{F_{1,d}}{R_{1,d}} \right)^2 + \left(\frac{F_{2/3,d}}{R_{2/3,d}} \right)^2 \leq 1$$

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Installation

Fasteners

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



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