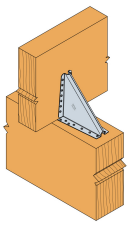
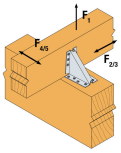
Technical Sheet

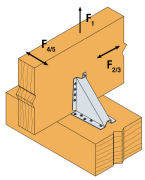
KNAG
KNAG

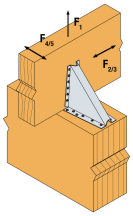
These brackets are suitable for horizontal support and tilted insurance purlins.











Features

Material

<u>Steel quality:</u>
S250GD + Z275 according to DIN EN10346
<u>Corrosion protection:</u>
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

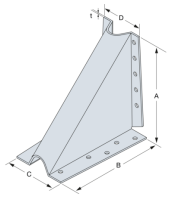
- Ensuring purlins against tipping on inclined trusses and beams.
- Optimal for joint beams and purlins in pitched roof structures.

Technical Sheet

KNAG
KNAG

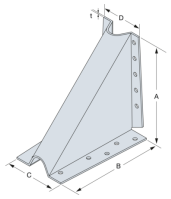
Technical Data

Product Dimensions



Reference	Connector Dimensions											
	Other				Product Dimensions[mm]						Joist[mm]	Flange B[mm]
	Tun / DB nr.	NOB nr.	Qty per Box	Weight[kg]	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	Thickness[mm]	Round Ø5[mm]	Round Ø5[mm]
KNAG90	-	-	-	0.3	90	90	43	55	69	2	6	8
KNAG130	1585755	46450365	30.0	0.44	125	125	52	66	79	2	9	10
KNAG170	1585756	44492632	20.0	0.63	160	160	52	72	93	2	11	12
KNAG210	1579903	21221262	15.0	1.1	200	200	54	67	100	2	14	14

Product capacities



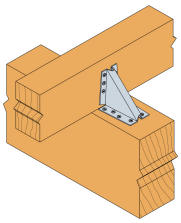
Reference	Angle bracket capacity										
	Product capacities - Timber to timber - Full nailing										
	Number of Fasteners				Characteristic capacities - Timber C24 - 1 angle bracket per connection[kN]						
	Joist		Flange B		$R_{1,k}$			$R_{2,k}$			
	Qty	Type	Qty	Type	f = 20 mm	f = 40 mm	f = 50 mm	e = 100 mm	e = 140 mm	e = 180 mm	e = 220 mm
KNAG90	6.0	CNA4,0x40	8.0	CNA4,0x60	4	2.1	1.6	1.8	1.2	0.8	0.6
KNAG130	9.0	CNA4,0x40	10.0	CNA4,0x60	4.6	3.9	3.7	4.4	3.1	2.3	1.6
KNAG170	11.0	CNA4,0x40	12.0	CNA4,0x60	5.8	5.1	4.9	7.5	5.3	4.1	3.4
KNAG210	14.0	CNA4,0x40	14.0	CNA4,0x60	7	6.3	6	11.4	8.1	6.3	5.2

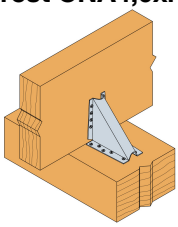
\sum\left(\frac{F_{i,d}} {R_{i,d}}\right)^2\le1

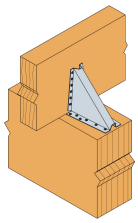
Installation

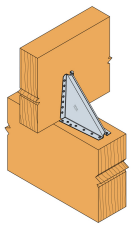
Fasteners

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









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