

Technical data sheet

SIMPSON

Strong-Tie

AKR

Reinforced Angle Bracket

The AKR bracket is reinforced around the bend, which significantly increases the rigidity and strength of the bracket.

- One-piece connector.
- Reinforced corners provide enhanced performance.
- CNA nails must be used to achieve the published loads.

Features

Material

Steel:

S 235JR acc. EN 10025

Corrosion protection:

Hot dip galvanized after fabrication acc. to EN ISO 1461 - zinc layer thickness approx. 55 µm

Benefits

- Load capacity in all directions
- Full and partial nailing
- Single or double sided connections
- Optional mounting with a distance to the support, only for tension connections
- Optimized bolt utilisation

Applications

Header member

Supporting member:

- Concrete, steel

Supported member:

- Timber, engineered wood

Applications

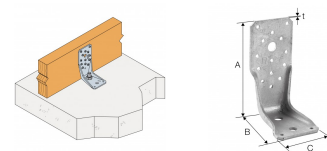
- The AKR angle brackets enable optimised connections between timber and other materials, like concrete, steel, etc.
- According to their overall galvanization the AKR angle brackets could be used in outdoor areas



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Technical Data

Product Dimensions



References	Product Dimensions [mm]				Holes Flange A		Holes Flange B			
	A	B	C	t	Ø5.2 [mm]	Ø13.5 [mm]	Ø5 [mm]	Ø11 [mm]	Ø13.5 [mm]	Ø13.5x25 [mm]
AKR95G	95	85	65	4	9	-	2	1	1	-
AKR95LG	95	85	65	4	9	-	2	1	-	1
AKR135G	135	85	65	4	14	1	2	1	1	-
AKR135LG	135	85	65	4	14	1	2	1	-	1
AKR285G	285	85	65	4	26	3	2	1	1	-
AKR285LG	285	85	65	4	26	3	2	1	-	1

Further below you will find the load values for these nail patterns: Full nailing, Partial nailing and nailing to a column.

Further connection options are given in the according ETA.

Performance Values

References	Fasteners			Characteristic Values [kN]					
	Flange A		Flange B		$R_{1,k}$			$R_{2,k} = R_{3,k}$	
	Qty	Qty	Anchor		CNA4.0x35	CNA4.0x50	CNA4.0x60	CNA4.0x35	CNA4.0x50
AKR95G	8	8	M12		8.8	11.3	13.2	2.5	3.1
AKR95LG	8	8	M12		6.7	8.7	10.4	2.2	2.8
AKR135G	13	1	M12		15.9	20.3	23.5	4	5
AKR135LG	13	1	M12		12.4	16.2	19.2	3.6	4.6
AKR285G	25	1	M12		22.6	29.5	35.2	4.4	5.8
AKR285LG	25	1	M12		16.5	21.7	26.4	3.3	4.4

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Installation

Fixing

- Fixing on timber members with CNA4,0xl threaded nails or optional with CSA5,0xl screws and to concrete / steel with bolts M12 and a washer Ø24.
- Single or double sided connections are possible.

