Technical data sheet

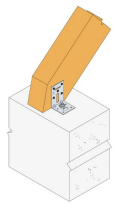
ADR
Angle Bracket

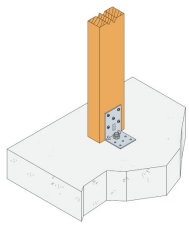
The ADR Light Reinforced Angle Brackets are used to assemble "timber/concrete", "timber/masonry", "timber/steel" or "timber/timber" applications. The long hole in the angle bracket ADR6191 offers possible asjustability during the installation phase.

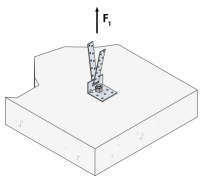
ADR6090L

ADR6090

ADR6035







Features

Material

Steel

- S 250 GD +Z 275 acc. DIN EN 10346

Corrosion protection:

- 275 g/m2 on both sides - correspond to a zinc layer of approx. 20 µm

Benefits

- The light reinforcing ensures to build sustainable, one or double sided "timber to timber" or "timber to concrete" applications.

Applications

Suitable On

Supporting member:

- solid wood, engineered wood, concrete, steel, etc.

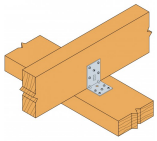
Supported member:

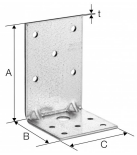
- solid wood, engineered wood

Scope

- Double- and single sided connecetions for rafters to beams or rafters to ring beams (concrete).

Technical Data

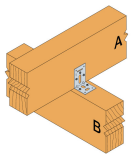




Product Dimensions

References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]				Joist				Holes flange B				
			A	B	C	t	Ø5	Ø10x27	Ø5x30	Ø12x40	Ø5	Ø12	Ø12x20	Ø10,5x20	Ø10,5x40
ADR6035	5653357	44191662	60	37	60	2.5	-	1	-	-	5	1	-	-	-
ADR6090	4618732	21220892	90	60	60	2.5	5	-	-	-	5	1	-	-	-
ADR6090L	1882590	51432776	90	60	60	2	5	-	1	1	4	-	1	1	-
ADR6191 *	5653365	43910837	90	60	60	2.5	5	-	-	-	4	-	-	-	1
ADR6292 *	8977738	21594486	90	60	60	2.5	5	-	1	-	5	-	-	1	-

* Currently without ETA / without CE marking



Product capacities - beam to beam - maximum nailing

References	Product capacities - Timber to timber - Maximum nailing			
	Number of Fasteners		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]	
	Joist	Flange B	$R_{1.k}$	
	Qty	Qty	CNA4.0x40	CNA4.0x60
ADR6090	3	3	2.6	3.5
ADR6090L	3	2	2.6 / kmod^0.3	min [3.6/kmod^0.3 ; 3.0/kmod]

Check

$$\frac{F_{i,d}}{R_{i,d}} \leq 1$$

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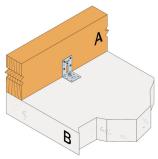
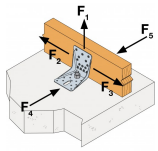




Product capacities - timber to concrete

References	Product capacities - Timber to Concrete					
	Number of Fasteners				Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]	
	Joist		Flange B		$R_{1.k}$	
	Qty	Type	Qty	Type	CNA4.0x40	CNA4.0x60
ADR6090	5	CNA	1	M10*	min [15,7 ; 9.9/kmod]	9.9 / kmod
ADR6090L	5	CNA	1	M10*	min [15.5 ; 9.9/kmod]	9.9 / kmod

* bolts e.g. **WA, BOAX II** or simultaneously, needs to be checked separately.
** load values for a load application point of **f = 20 mm**

Check

For the Angle bracket needs to be checked:

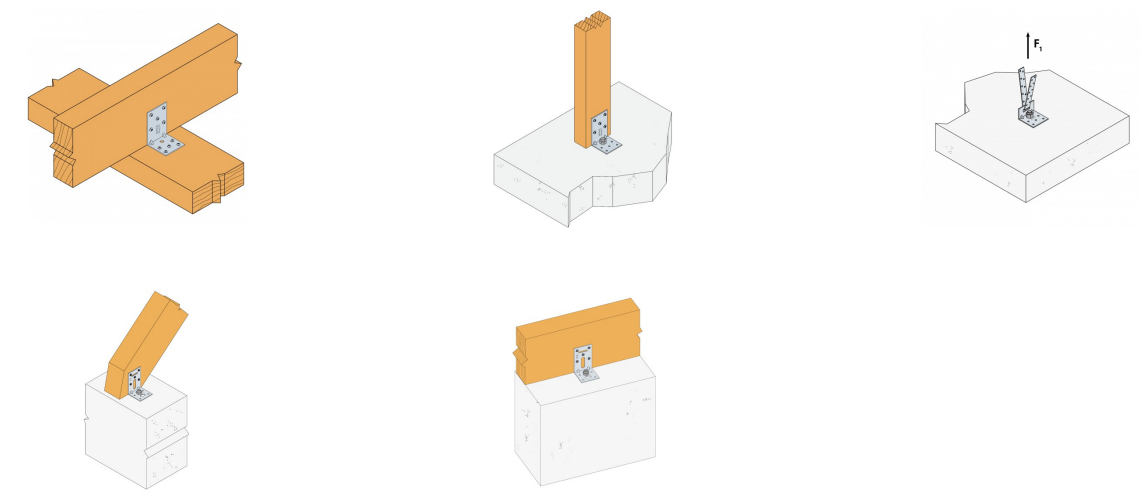
$$\frac{F_{i,d}}{R_{i,d}} \leq 1$$

The check of the fasteners in concrete or steel needs to be done separately.

Installation

Fixing

- The fixing needs to be done with CNA4,0xℓ threaded nails or CSA5,0xℓ screws.
- For fixing on concrete M10 bolts needs to be used.



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