Technical Sheet

ABR-S
Angle ABR70,90,105 Embossed

Suitable for connections where there is a large load angles are provided with ribs
DoP:
DE-DoP-E06 / 0106



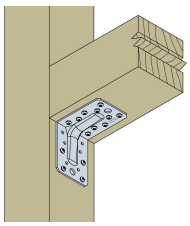


ABR70S



ABR105S





Features

Material

Steel quality:
• Stainless Steel 1.4401 bzw. 1.4404 (V4A) in accordance with EN10088 standards.
• Class III corrosion resistance

Benefits

• load capacity in all directions
• improved values for full and partial load
• joints wood / wood, wood / concrete

Applications

Applicable materials

Wood, wood materials

Application area

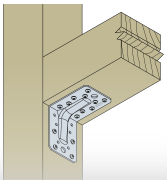
• Suitable for transfer of larger loads, the connection rafters, purlins, rafters, etc.

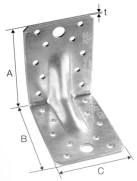
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Technical Data





Product Dimensions

Product Dimensions
See full table online ➡

Reference	Tun / DB nr.												Flange B[mm] Round	
													Ø8.5[mm]	Ø11[mm]
ABR70S	5650106	22002040	100.0	0.11	70	70	55	2	8	1	8		1	-
ABR90S	2914703	21221379	50.0	0.2	90	90	65	2.5	10	-	1	10	-	1

Product capacities - Timber to timber - Full nailing

Reference	Angle bracket capacity							
	Product capacities - Timber to timber - Full nailing							
	Number of Fasteners		Characteristic capacity - 2 angle brackets per connection - full nailing[kN]					
	Joist	Flange B	$R_{1,k}$		$R_{2,k}=R_{3,k}$		R4/5,k	
	Qty	Qty	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
ABR70S	4.0	6.0	5.3	-	5	-	3.0/kmod^0.5	-
ABR90S	8.0	10.0	7.9	13.3	9.2	11.8	8.1/kmod^0.85	9.1/kmod^0.75
ABR105S	10.0	14.0	10.7	17.8	14.5	20.2	12.9/kmod^0.5	14.5/kmod^0.75

Product capacities - Timber to timber - Partial nailing

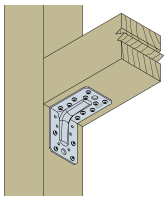
Reference	Angle bracket capacity							
	Product capacities - Timber to timber - Partial nailing							
	Number of Fasteners		Characteristic capacity - 2 angle brackets per connection - full nailing[kN]					
	Joist	Flange B	$R_{1,k}$		$R_{2,k}=R_{3,k}$		R4,k = R5,k(1)	
	Qty	Qty	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
ABR70S	4.0	4.0	3	-	4.8	-	2.1/kmod^0.75	-
ABR90S	4.0	6.0	5.3	8.8	5.7	7.3	6.8/kmod^0.5	8.6/kmod^0.75
ABR105S	6.0	6.0	5.9	9.8	7.7	11.6	8.9/kmod^0.5	12.8/kmod^0.3

k_{mod} is the modification factor for the load group to which the required load bearing belongs.
* is determined for a beam width b = 75 mm and an essentricity e = 130 mm. For other values of b and e, refer to ETA.
The load bearing $R_{1,k}$ and $R_{2/3,k}$ in an assembly with a single anglebracket is half of the loadbearing if the purlin is prevented in rotation. Refer to ETA if the purlin can rotate.

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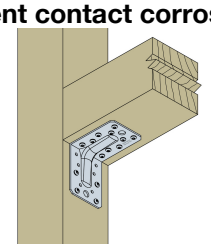
product capacities - Timber beam to column

Reference	Angle bracket capacity					
	Product capacities - Timber beam to column					
	Characteristic capacities - Timber C24 - 1 angle bracket per connection[kN]				Number of Fasteners	
	$R_{1,k}$		$R_{2,k}=R_{3,k}$		Joist	Flange B
	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	Qty	Qty
ABR90S	9	11	1.4	2.4	4	10
ABR105S	16	17	1.4	2.4	6	14

Installation

Installation

• For fixing stainless comb nails, screws or bolts of comparable steel quality must be used to prevent contact corrosion



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