

ABR-S Stainless Steel Bracket

The ABR angle brackets with rib can be used in high loaded timber structures. These brackets are made of stainless steel and are recommended in aggressive atmospheres

Features

Material

Steel quality:

- **Stainless Steel 1.4401 or 1.4404 in accordance with EN10088 standards.**
- **Class III corrosion resistance**

Benefits

- **Reinforcing ribs provide enhanced performance**

Applications

When to use

- **ABR angle bracket are particularly suitable for connections of crossed beams, e. g. for connections rafters on purlins and purlins on timber beams.**

Applications

Supporting member:

- Solid wood, engineered wood

Supported member:

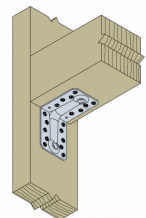
- Solid wood, engineered wood



ABR9020S



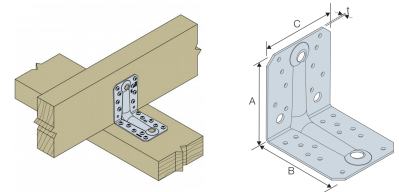
ABR10525S



ABR-S
Stainless Steel Bracket

Technical Data

Product Dimensions

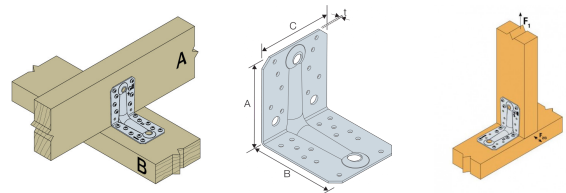


References	Tun / DB nr.	NOB nr.	Dimensions and drill holes [mm]				Holes flange A				Holes flange B				Box Quantity
			A	B	C	t	Ø5	Ø7	Ø11	Ø14	Ø5	Ø9	Ø13	Ø14	
ABR7015S	1901749	51738657	70	70	55	1.5	8	1	-	-	8	1	-	-	25
ABR9020S	1901752	51738680	88	88	65	2	10	-	1	-	10	-	1	-	25
ABR10525S	1901755	51738714	105	105	90	2.5	10	-	2	1	14	-	-	1	25

Combined load:

$$\sqrt{\left(\frac{F_{1,d}}{R_{1,d}} + \frac{F_{4/5,d}}{R_{4/5,d}}\right)^2 + \left(\frac{F_{2/3,d}}{R_{2/3,d}}\right)^2} \leq 1$$

Capacities wood-wood connection - Full Nailing



References	Product capacities - Timber to timber - Maximum nailing											
	Number of Fasteners		Characteristic capacity - 2 angle brackets per connection - full nailing [kN]									
	Joist	Flange B	R _{1,k}				R _{2/3,k}				R _{4/5,k}	
	Qty	Qty	CNA4.0x35	CNA4.0x40S	CNA4.0x50	CNA4.0x60	CNA4.0x35	CNA4.0x40S	CNA4.0x50	CNA4.0x60	CNA4.0x35	CNA4.0x60
ABR7015S	6	8	5.2	6.1	-	-	6.7	7.3	-	-	4.2 /kmod ^{0,3}	4. /kmod
ABR9020S	8	10	9.7	10.8	12.9	14.9	9.4	10.3	11.7	13	4.6 /kmod ^{0,7}	4. /kmod
ABR10525S	10	14	12.7	17.2	23.3	29.5	10.7	12.2	15.9	19.7	10.6/kmod ^{0,2}	11 /kmod

R_{4/5,k} with b=75mm and e=130mm

For simplified R_{4/5,k}, the published characteristic capacity is based on short term load duration and service class according to EC5 (EN 1995) – kmod = 0.9. For other load duration and service class, please refer to the ETA.

Combined load:

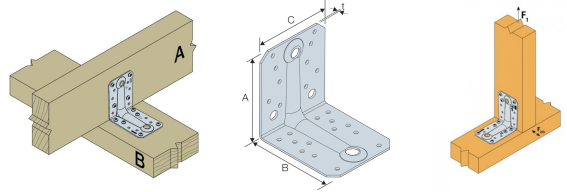
$$\sqrt{\left(\frac{F_{1,d}}{R_{1,d}} + \frac{F_{4/5,d}}{R_{4/5,d}}\right)^2 + \left(\frac{F_{2/3,d}}{R_{2/3,d}}\right)^2} \leq 1$$

Technical data sheet



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Capacities wood-wood connection /
partialnailing



Product capacities - Timber to timber - Partial nailing											
References	Number of Fasteners		Characteristic capacity - 2 angle brackets per connection - partial nailing [kN]								
	Joist	Flange B	$R_{1,k}$			$R_{2/3,k}$			$R_{4/5,k}$		
	Qty	Qty	CNA4.0x35	CNA4.0x40S	CNA4.0x60	CNA4.0x35	CNA4.0x40S	CNA4.0x60	CNA4.0x35	CNA4.0x40S	CNA4.0x60
ABR9020S	4	6	4.9	5.9	9.8	5.9	6.4	8.1	4.6 /kmod ^{0,6}	4.8 /kmod ^{0,7}	5.8/kmod ^{0.6}
ABR10525S	6	6	4.8	5.7	9.5	9.7	10.6	14.3	Refer to ETA-06/0106	Refer to ETA-06/0106	Refer to ETA-06/0106

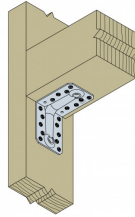
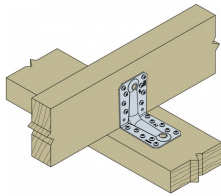
R 4/5 with b=75mm and e=130mm

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Installation

Fixings

- **Fixings must be stainless steel nails (CNA-S) or screws (CSA-S) to avoid bi-metallic corrosion.**



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