

## 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:

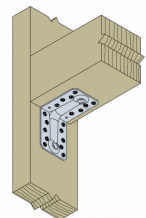
- Solid wood, engineered wood



ABR9020S



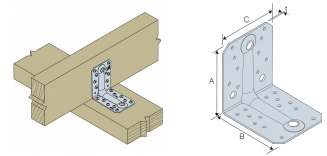
ABR10525S



ABR-S  
Stainless Steel Bracket

## Technical Data

### Product Dimensions

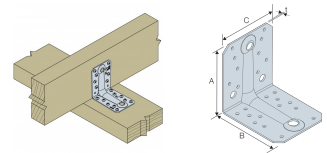


References	Dimensions and drill holes [mm]				Holes flange A				Holes flange B			
	A	B	C	t	Ø5	Ø7	Ø11	Ø14	Ø5	Ø9	Ø13	Ø14
ABR9020S	88	88	65	2	10	-	1	-	10	-	1	-
ABR10525S	105	105	90	2.5	10	-	2	1	14	-	-	1

Combined load:

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

### Simplified product capacities - Beam to beam - Maximum nailing



References	Simplified product capacities - Timber to timber – Maximum nailing										
	Number of Fasteners		Simplified characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]								
	Joist	Flange B	R <sub>1,k</sub>			R <sub>2,k</sub> = R <sub>3,k</sub>			Simplified R <sub>4/5,k</sub>		
	Qty	Qty	CNA4.0x35S	CNA4.0x50S	CNA4.0x60S	CNA4.0x35S	CNA4.0x50S	CNA4.0x60S	CNA4.0x35S	CNA4.0x50S	CNA4.0x60S
ABR9020S	8	10	9.7	11.9	14.9	9.4	12.2	13	4.9	-	6.2
ABR10525S	10	14	12.7	23.6	29.5	10.7	18.5	19.7	10.8	-	14.3

To obtain the resistance values for a single bracket, the values in the above table should be divided by two, provided that the supported beam is locked in rotation. Please consult our ETA-06/0106 if the beam is free to rotate.

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### Installation

#### Fixings

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

