

Technical data sheet

SIMPSON

Strong-Tie

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:

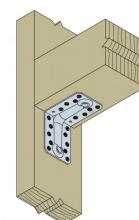
- Solid wood, engineered wood



ABR9020S



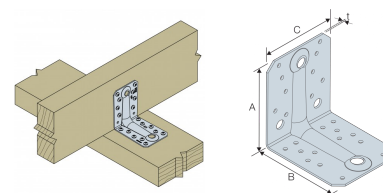
ABR10525S



ABR-S

Stainless Steel Bracket

Technical Data



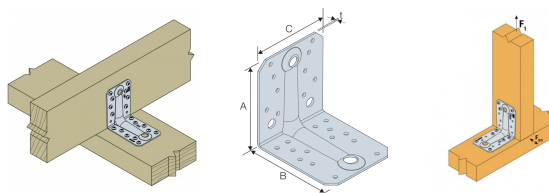
Product Dimensions

References	Dimensions and drill holes [mm]				Holes flange A				Holes flange B				Box Quantity	Weight [kg]
	A	B	C	t	Ø5	Ø7	Ø11	Ø14	Ø5	Ø9	Ø13	Ø14		
ABR9020S	88	88	65	2	10	-	1	-	10	-	1	-	25	0.17
ABR10525S	105	105	90	2.5	10	-	2	1	14	-	-	1	25	0.34

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 _{1,k}			R _{2,k} = R _{3,k}			Simplified R _{4/5,k}		
	Qty	Qty	CNA4.0x35S	CNA4.0x50S	CNA4.0x60S	CNA4.0x35S	CNA4.0x50S	CNA4.0x60S	CNA4.0x35	CNA4.0x50S	CNA4.0x60
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.**

