# Technical Sheet

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

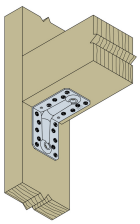




ABR9020S



ABR10525S



## 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:**

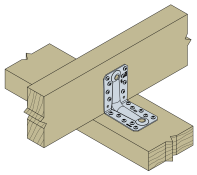
- Solid wood, engineered wood

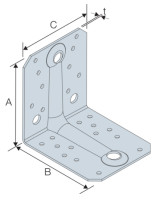
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# Technical Data

## Product Dimensions

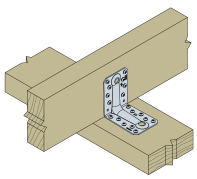


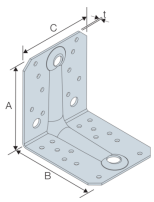



| Reference | Connector Dimensions | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Other | | Product Dimensions[mm] | | | | Joist[mm] | | | | Flange B[mm] | | | |
| | | | | | | | Round | | | | Round | | | |
| | Qty per Box | Weight[kg] | A[mm] | B[mm] | C[mm] | Thickness[mm] | Ø5[mm] | Ø7 | Ø11[mm] | Ø14[mm] | Ø5[mm] | Ø9 | Ø13[mm] | Ø14[mm] |
| ABR9020S | 25.0 | 0.17 | 88 | 88 | 65 | 2 | 10 | - | 1 | - | 10 | - | 1 | - |
| ABR10525S | 25.0 | 0.34 | 105 | 105 | 90 | 2.5 | 10 | - | 2 | 1 | 14 | - | - | 1 |

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

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





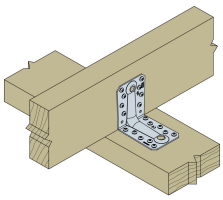

| Reference | Angle bracket capacity | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Simplified product capacities - Timber to timber – Beam to beam - Full nailing | | | | | | | | | | |
| | Number of Fasteners | | Characteristic Capacities - Timber C24 - 2 Angle Brackets per Connection[kN] | | | | | | | | |
| | Joist | Flange B | $R_{1,k}$ | | | $R_{2,k}=R_{3,k}$ | | | R4/5,k | | |
| | Qty | Qty | CNA4.0x35 | CNA4.0x50 | CNA4.0x60S | CNA4.0x35 | CNA4.0x50 | CNA4.0x60S | CNA4.0x35 | CNA4.0x50 | CNA4.0x60S |
| ABR9020S | 8.0 | 10.0 | 9.7 | 11.9 | 14.9 | 9.4 | 12.2 | 13 | 4.9 | - | 6.2 |
| ABR10525S | 10.0 | 14.0 | 12.7 | 23.6 | 29.5 | 10.7 | 18.5 | 19.7 | 10.8 | - | 14.3 |

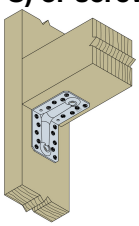
To obtain the resistance values for a single bracket, the values in the above table should be divided by two, provided that the supported beam is locked in rotation. Please consult our ETA-06/0106 if the beam is free to rotate.

# Installation

## Fixings

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






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