

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

## 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

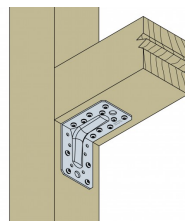
- **Suitable for transfer of larger loads, the connection rafters, purlins, rafters, etc.**



ABR70

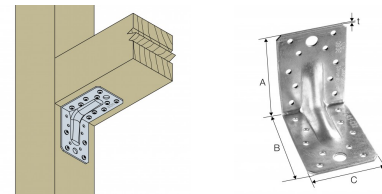


ABR105



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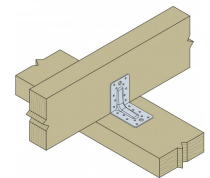
## Technical Data



### Product Dimensions

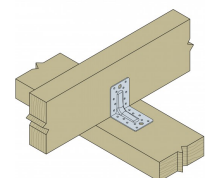
References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]				Joist			Holes flange B			Box Quantity
			A	B	C	t	Ø5 [mm]	Ø8,5	Ø11	Ø5 [mm]	Ø8,5	Ø11	
ABR70S	5650106	22062848	70	70	55	2	6	1	-	6	1	-	100
ABR90S	2914703	21221379	90	90	65	2.5	10	-	1	10	-	1	50
ABR105S	2914653	21221395	105	105	90	3	10	-	3	14	-	1	50

### Product capacities - Timber to timber - Full nailing



References	Number of Fasteners		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]					
	Joist	Flange B	$R_{1,k}$		$R_{2,k} = R_{3,k}$		$R_{4,k} = R_{5,k}$	
	Qty	Qty	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
ABR70S	4	6	5.3	-	5	-	3.0/kmod <sup>0.5</sup>	-
ABR90S	8	10	7.9	13.3	9.2	11.8	8.1/kmod <sup>0.85</sup>	9.1/kmod <sup>0.75</sup>
ABR105S	10	14	10.7	17.8	14.5	20.2	12.9/kmod <sup>0.5</sup>	14.5/kmod <sup>0.75</sup>

### Product capacities - Timber to timber - Partial nailing



References	Number of Fasteners		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]					
	Joist	Flange B	$R_{1,k}$		$R_{2,k} = R_{3,k}$		$R_{4,k} = R_{5,k}$	
	Qty	Qty	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
ABR70S	4	4	3	-	4.8	-	2.1/kmod <sup>0.75</sup>	-
ABR90S	4	6	5.3	8.8	5.7	7.3	6.8/kmod <sup>0.5</sup>	8.6/kmod <sup>0.75</sup>
ABR105S	6	6	5.9	9.8	7.7	11.6	8.9/kmod <sup>0.5</sup>	12.8/kmod <sup>0.3</sup>

$k_{mod}$  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 eccentricity  $e = 130$  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.

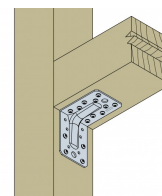
# Technical data sheet

**SIMPSON**

**Strong-Tie**

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product capacities - Timber beam to column

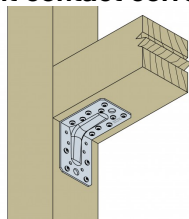
References	Number of Fasteners		Characteristic capacities - Timber C24 - 1 angle bracket per connection [kN]			
	Joist	Flange B	$R_{1,k}$		$R_{2,k}$	
	Qty	Qty	CNA4.0x40	CNA4.0x60	CNA4.0x40	CNA4.0x60
ABR90S	4	10	9	11	1.4	2.4
ABR105S	6	14	16	17	1.4	2.4

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## 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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