ABR-S

Stainless steel frame bracket (100S)



The ABR100S is reinforced bracket which responds to structural applications on a wooden support or concrete. This bracket is recommended in aggressive atmospheres.

Features

Material

Steel quality:

- Stainless steel 1.4401 or 1.4404 (V4A) in accordance with EN10088.
- The types of stainless steel that we use are the corrosion resistance class III

Benefits

- High rigidity through double-sided splash back
- High load values
- Optimized nail image
- ABR-S (100): Ø12mm holes for M10 bolts
- ABR-S (100): concrete connection possible with just one bolt
- ABR-S (9015): Less Weight- thus better handling in the warehouse
- ABR-S (9015): Ø13 mm bolt holes for constructive fixings

Applications

Applications

In Stock:

• wood, concrete, steel

Component:

wood, suitable wooden construction

Scope

• for fixing wood to concrete





Équerre de structure Inox

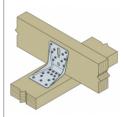
ABR100S

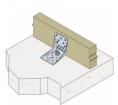




Wood to wood connection.

Timber to masonry





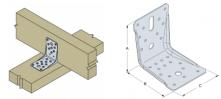
ABR-S

Stainless steel frame bracket (100S)



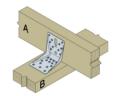
Technical Data





References	Product Dimensions [mm]				Joist			Holes flange B			Box Quantity	Weight [kg]	
	Α	В	C	t	Ø5	Ø12	Ø13	Ø12x32	Ø5	Ø12	Ø13	DOX Qualitity	Weight [kg]
ABR100S	100	100	90	2	10	1	-	1	14	1	-	50	0.26

Product capacities - Beam to beam - Full nailing







	Product capacities - Timber to timber - Full nailing												
References		ımber of ısteners	Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]										
	Joist	Flange B		R _{1.k}			$R_{2,k} = R_{3,k}$	$R_{4.k} = R_{5.k}^{(1)}$					
	Qty	Qty	CNA4.0x35S	CNA4.0x50S	CSA5,0x40S	CNA4.0x35S	CNA4.0x50S	CSA5,0x40S	CNA4.0x50S	CSA5,0x40S			
ABR100S	10	14	9.7	15.4	min (25.6 ; 25.1/kmod)	9.6	14.2	20.3	4.2	4.2			

 $^{1)}$ b = 75 mm; e = 130 mm Combined load:

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

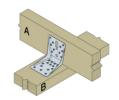
To obtain the resistance values for a single bracket, the values in the above table should be divided by two, provided that the supported beam is locked in rotation. Please consult our ETA-06/0106 if the beam is free to rotate.

ABR-S

Stainless steel frame bracket (100S)



Product capacities - Timber to Concrete







References		Product capacities - Timber to Concrete											
	Number of Fasteners				Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]								
	Joist		Flange B			R _{1.k}	$R_{2.k} = R_{3.k}$		$R_{4.k} = R_{5.k}^{(1)}$				
	Qty	Type	Qty	Type	CNA4.0x35S	CNA4.0x50S	CNA4.0x35S	CNA4.0x50S	CNA4.0x50S				
ABR100S	1	Ø10	10	CNA*	16.7	min (26.6; 21.6/kmod)	7.3	10.8	10.4				

^{*} Refer to Characteristic Capacity table columns for type of fasteners that can be used in Flange A. Capacities vary depending on fastener type used.

1) b = 75 mm; e = 130 mm

Refer to the Simpson Strong-Tie anchor product range for suitable anchors. Typical anchor solutions are BOAXII, SET-XP, WA, AT-HP, depending on the concrete type, spacing and edge distances. Combiend load:

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

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.

ABR-S

Stainless steel frame bracket (100S)



Installation

Fasteners

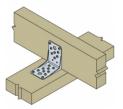
• connections using screws or nails CSA5,0xl CNA4,0xl

Installation

• For fixing stainless comb nails, screws or bolts of comparable steel quality must be used to prevent contact corrosion

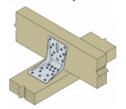


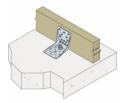
Wood to wood connection.





Timber to masonry connection





ABR-S

Stainless steel frame bracket (100S)



