ABAI

Angle bracket for CLT



The ABAI is a bracket for static structural joints between wall and ceiling panels of laminated wood. They are separated by 12 mm thick sound insulation support.

Features

Material

- Galvanized steel S250GD with zinc coating thickness of 20 microns
- Sylodyn®: Polyurethane Syloer SR220

Benefits

- · Load capacity in all directions
- Saving time and cost to build, because there is no need for additional sound insulation
- · Reduces sound transmission
- More living space because of additional sound insulation
- A positive impact on the indoor environment, greater wind resistance, due to isolation SYLODYN along the outer walls

Applications

Applications

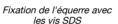
Supporting member: Plywood boards Supported member: Plywood boards

Scope

- The ABAI soundproofing angles are used for connections between wall and ceiling elements made of plywood boards
- The connection to the base plate by means of Simpson Strong-Tie® special screws. The MOABAI insertion device is to be used
- The connections can be made on one side or with opposing angle brackets.









Installation with MOABAI insertion device



Sample application

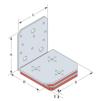
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Technical Data





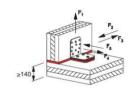
Product Dimensions

References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]						Joist		Holes flange B	Box Quantity	
	Tuil / DD III.		Α	В	C	D	E	t	Ø5	Ø11	Ø7	DOX Quantity	
ABAI105	1923004	46900855	113	103	90	106	18	3	8	3	3	20	

Single-sided connection with a Sylodyn insulation strips d = 12 mm between wall and ceiling







Product capacities - ABAI

References		Product capacities - Timber to timber - Full nailing												
	Number of Fasteners				Characteristic	c capacities - Tim connect	Slip modulus K _{ser} for load direction [kN/mm]							
		Joist Flange B		R _{1.k}	R _{2/3.k}	R _{4.k}	R _{5.k}	R _{1.k}	R _{2/3.k}	R _{4.k}	R _{5.k}			
	Qty	type	Qty	type	WI.K	112/3.K	1.4.K	.K	· ····································	142/3.K	· 4.K	1.9.K		
ABAI105	8	CNA4,0x60	3	SDS25600	2,0/kmod	2,0/kmod	3,3/kmod	2,3/kmod	0.8	0.68	1.16	0.8		

Design:

For the overlap of the action must be proven: $\frac{C}{\sqrt{C}} > \frac{2}{\sqrt{C}}$

$$\sum \left(rac{F_{i,d}}{R_{i,d}}
ight)^2 \leq 1$$

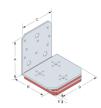
ABAI

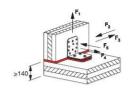
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Simplified characteristic capacities - Wood to concrete - 1 bracket per connection







References		Simplified product capacities - Timber to timber – Full nailing												
	Number of Fasteners				Simplified cha	Slip modulus k _{ser} for load duration								
	Joist Flange B		R _{1.k}	R _{2/3.k}	R _{4.k}	R _{5.k}	R _{1.k}	R _{2/3.k}	R _{4.k}	R _{5.k}				
	Qty	Туре	Qty	Туре	**1.K	112/3.K	114.K	1.9.K	''1.K	112/3.K	1 '4.K	' '5.K		
ABAI105	8	CNA4,0x60	3	SDS25600	2.2	2.2	3.7	2.6	0.8	0.68	1.16	0.8		

The published characteristic capacity is based on short term load duration and service class 2 according to EC5 (EN 1995) – k_{mod} = 0.9. For other load duration and service class, please refer to the ETA to get more accurate capacities

for load combination:

$$\sum \left(rac{F_{i,d}}{R_{i,d}}
ight)^2 \leq 1$$

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Installation

Installation

- Vertical: 8xCNA4,0x60 (O11; 3 St.) neboCSA5,0x50
- Bottom: 3xSDS25600
- The MOABAI insertion device is to be used.



Installation with MOABAI insertion device



Fixation de l'équerre avec les vis SDS



Gabarit MOABAI



Sample application

