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.









Fixation de l'équerre avec les vis SDS

Installation with MOABAI insertion device

Sample application

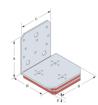
ABAI

Angle bracket for CLT



Technical Data



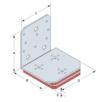


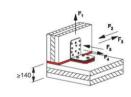
Product Dimensions

References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]						Joist		Holes flange B	Box Quantity	Weight [kg]	
			Α	В	C	D	E	t	Ø5	Ø11	Ø7	DOX Quantity	woight [kg]	
ABAI105	1923004	46900855	113	103	90	106	18	3	8	3	3	20	0.81	

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			lange 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	NI.K	142/3.K	1.4.K	••ъ.к	••1.К	1.2/3.K	14.K	1.9.К		
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: $(E) \times 2$

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

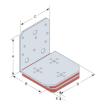
ABAI

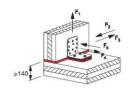
Angle bracket for CLT



Simplified characteristic capacities - Wood to wood - 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	Type	Qty	Туре	14.К	112/3.K	14.K	"ъ.К	1.K	1.67.3.K	· ·4.K	N.G"			
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:

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

ABAI

Angle bracket for CLT



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



