

Technical data sheet



ABAI Angle bracket for CLT

It 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

Applicatons

Supporting member:

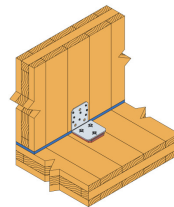
Plywood boards

Supported member:

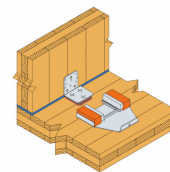
Plywood boards

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

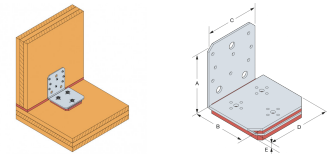


Sample application

ABAI Angle bracket for CLT

Technical Data

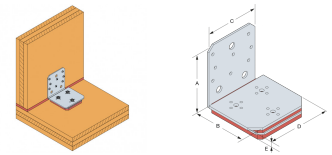
Product Dimensions



References	Tun / DB nr.	NOB nr.	Product Dimensions [mm]						Joist		Holes flange B
			A	B	C	D	E	t	Ø5	Ø11	Ø7
ABAI105	1923004	46900855	113	103	90	106	18	3	8	3	3

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

Product capacities - ABAI



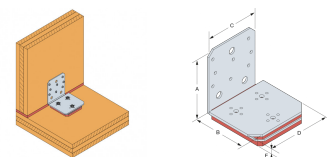
References	Product capacities - Timber to timber - Full nailing											
	Number of Fasteners				Characteristic capacities - Timber C24 - 1 angle brackets per connection [kN]				Slip modulus k_{ser} for load direction [kN/mm]			
	Joist		Flange B		$R_{1,k}$	$R_{2/3,k}$	$R_{4,k}$	$R_{5,k}$	$R_{1,k}$	$R_{2/3,k}$	$R_{4,k}$	$R_{5,k}$
	Qty	type	Qty	type								
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:

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

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



References	Simplified product capacities - Timber to timber - Full nailing											
	Number of Fasteners				Simplified characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]				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	Type								
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:

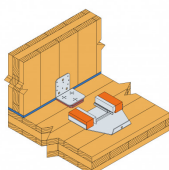
$$\sum \left(\frac{F_{i,d}}{R_{i,d}} \right)^2 \leq 1$$

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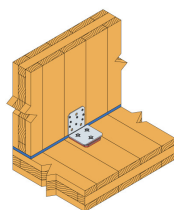
Installation

Installation

- Vertical: 8xCNA4,0x60 (O11; 3 St.) nebo CSA5,0x50
- 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

