

ABD

Angle bracket ABD

*Angle bracket ABD45100 for connection timber to timber and the angle bracket ABDW45100 with washer for connection timber to rigid supports.
The fixing to the rigid support shall be done with anchor M12.*

Features

Materiál

Steel quality:**Angle bracket: S 250 GD + Z275 according to EN10346****Washer: S235JR according to EN 10025****Corrosion protection:****Angle bracket: Z 275 pre-galvanized, zinc coating ~ 20µm****Washer: hot dip galvanized, zinc coating ~ 50µm according to EN1461**

Benefit

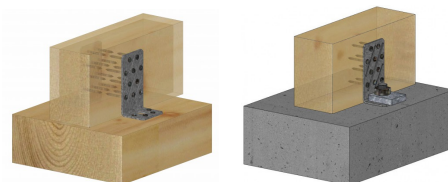
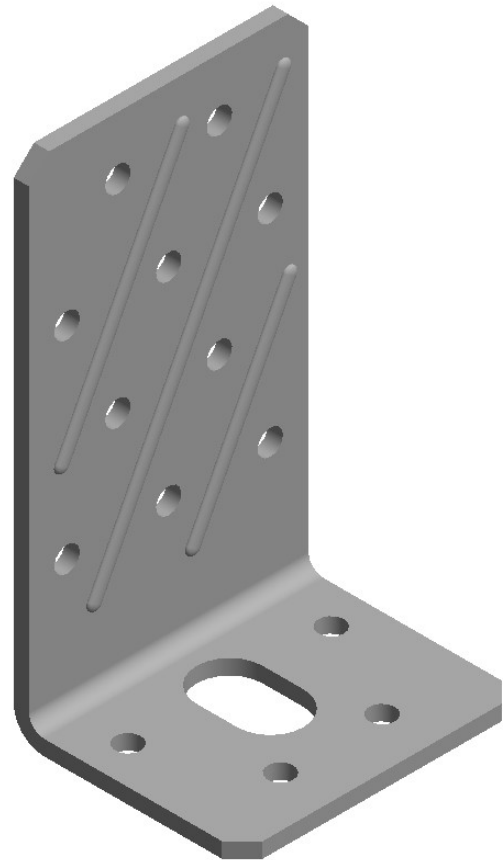
For applications timber to timber and timber to concrete

Applications

Anwendungsbereich

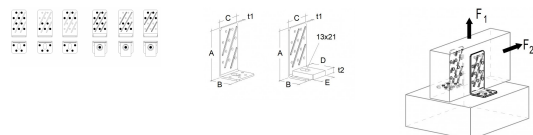
Applicable materials**Supporting member****Solid wood, engineered wood, concrete, steel, etc.****Supported member****Solid wood, engineered wood**

Anwendungsbereich

With this angle brackets can be fixed timber elements to timber or rigid support.**With different nail pattern are given options for connection, with larger distances of first nail row.**

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Technical Data



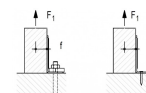
Rozměry a typické hodnoty

Art. nr.	Rozměry [mm]				No. of holes		
	A	B	C	t1	flange A	Hlava	
					Ø5mm	Ø5mm	13x21mm
ABD45100	100	45	55	3	10	4	1

For load combination shall be fulfilled:

$$\frac{F_{1,d}}{R_{1,d}} + \frac{F_{2/3,d}}{R_{2/3,d}} \leq 1$$

Characteristic capacities F1



Art. nr.	R _{1,k} - 1 angle bracket per connection [kN]				R _{1,k} - 2 angle brackets per connection [kN]			
	Nail pattern 1 to 3 respectively 4 to 6				Nail pattern 1 to 3 respectively 4 to 6			
	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60
ABD45100	min : 1,47 ; 21,2 / ((f+15)*kmod)	min : 1,96 ; 21,2 / ((f+15)*kmod)	21,2 / ((f+15)*kmod)	21,2 / ((f+15)*kmod)	2.94	3.92	4.9	5.81

The necessary capacity of bolt has to be as minimum:

$$R_{\text{bolt.axial}} = F_{1,d} \times 1.65$$

With:

$$R_{\text{bolt.axial}} = \text{min. axial capacity of the bolt} / \text{both bolts (connection with 1 / 2 ABD)}$$

Characteristic capacities F2/3

Art. nr.	R _{2/3,k} - 2 angle brackets per connection [kN]											
	Nail pattern 1 and 4				Nail pattern 2 and 5				Nail pattern 3 and 6			
	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60	CNA4,0x35	CNA4,0x40	CNA4,0x50	CNA4,0x60
ABD45100	6.07	7.01	8.86	10.18	5.65	6.22	7.47	8.12	3.49	3.82	4.57	4.9

For connection with one ABD can be use the half of capacities as for connection with 2 ABD, if the timber element is prevented against rotation.

The necessary capacity of bolt has to be as minimum:

$$R_{\text{bolt.axial}} = F_{2,d} \times 0.4 \quad R_{\text{bolt.lat}} = F_{2,d}$$

With:

$$R_{\text{bolt.axial}} = \text{min. axial capacity of the bolt} / \text{both bolts (connection with 1 / 2 ABD)}$$

$$R_{\text{bolt.lat}} = \text{min. lateral capacity of the bolt} / \text{both bolts (connection with 1 / 2 ABD)}$$

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Installation

Installation

- Fastening is done with CNA4,0xℓ nails or CSA5,0xℓ screws.
- M12 anchor bolts are used for fastening to concrete.

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