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## **Reinforced Angle Bracket**



Reinforced angle brackets are suitable for structural applications in framing and wood-frame houses.

## **Features**

Materiál

Kvalita oceli:
S 250 GD+Z 275 dle norem DIN EN
Ochrana proti korozi:
275 g/m pozinkováno z obou stran cca 20mm

Vorteile

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## **Applications**

#### Anwendbare Materialien

- **Supporting member:** solid wood, glued-laminated wood, concrete, steel, etc.
- **Supported member:** solid wood, composite lumber, glued-laminated wood, triangular trusses, profiles, etc.

## Anwendungsbereich

• Befestigungen von Holzbalken, Holzstützen an Pfetten oder Haupträger



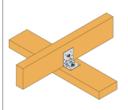






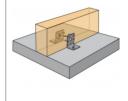


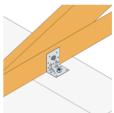












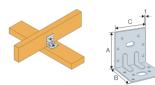
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## **Technical Data**

# Product Dimensions



Art. nr.	Ro	Příruba A		Hlava				
	Α	В	C	t	Ø5	Ø13	Ø5	Ø12x20
E4/2.5	102.5	62.5	75	2.5	7	1	6	1

\*angle bracket folded at 135°

Product characteristic capacities - Timber beam to timber beam - full nailing - assembly with 2 angle brackets





Art. nr.	Product capacities - Timber to timber - Beam to beam - Full nailing										
	Upevňovací prvky		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]								
	Příruba A	Hlava		R.	1.k		$R_{2.k} = R_{3.k}$				
	Množství	Množství	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x35	CNA4.0x40	CNA4.0x50	CNA4.0x60	
E4/2.5	8	6	5.5	6.3	7.2	7.6	7.6	8.3	10.1	10.7	

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.

Product characteristic capacities - Timber beam to rigid support - assembly with 2 angle brackets





Art. nr.	Product capacities - Timber beam to rigid support									
	Upevňovací prvky			Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]						
	Příruba A		Hlava		R <sub>1.k</sub>			$R_{2.k} = R_{3.k}$		
	Množství	Тур	Množství	Тур	CNA4.0x40	CNA4.0x50	CNA4.0x60	CNA4.0x40	CNA4.0x50	CNA4.0x60
E4/2.5	8	CNA	1	Ø10	12.6	12.6	12.6	- *	- *	_ *

<sup>\*</sup> No capacities are given as it is a slip connection due to oblong hole.

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.

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## **Reinforced Angle Bracket**



## Installation

## Befestigung

#### On wood:

- CNA annular ring-shank nails dia. 4.0 x 35 or dia. 4.0 x 50 mm.
- CSA screws dia. 5.0 x 35 mm or CSA screws dia. 5.0 x 40 mm.
- Bolts.
- · LAG screws.
- SSH Ø 10.0 x 40 mm (for E5/1.5 and E5/1.5/11.22/11)

#### On concrete:

#### Concrete substrate

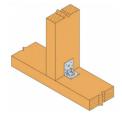
- Mechanical anchor: WA M10-78/5 OR WA M12-104/5 pin.
- Chemical anchor: AT-HP resin + LMAS M10-120/25 or LMAS M12-150/35 threaded rod.

#### Hollow masonry substrate:

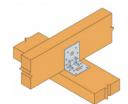
• Chemical anchor: AT-HP or POLY-GP resin + LMAS M10-110/35 threaded rod with SH16x130 screen or LMAS M12-150/35 with SH20130 screen

#### On steel:

· Bolts.



Post connection



Fixation bois/bois - Type poutre/poutre



Fixation bois/support rigide - Type poteau



Beam connection

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### **Reinforced Angle Bracket**



## **Technical Notes**

#### Informations

# F1: tensile force in the central axis of the angle-bracket Particular situation of a fastening with only one angle-bracket:

- If the overall structure prevents the rotation of the purlin or the post, the tensile strength is equal to half of the given value for two angle-brackets.
- Otherwise, the connection resistance depends on the « f » distance between the vertical contact surface and the point of load application.

#### F2 and F3: shear lateral force

#### Particular situation of a connection with only one angle-bracket:

• The resistance value to consider is equal to half of the one given for two angle-brackets.

#### F4 and F5: transversal force directed towards or opposite the angle-bracket

- The connection resistance depends on the « e » distance between the base of the angle-bracket and the point of load application.
- To consult corresponding loads, contact us.

Only F1, F2 and F3 forces for connections with 2 angle-brackets are present on this sheet. For more information, contact us.

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