

E9/2.5

Large reinforced angle brackets

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

Features

Material

- Pre-galvanised mild steel.

Benefits

- Reinforced.
- Multiple applications.

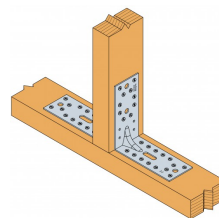
Applications

Suitable On

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

When to Use

- Fastening of small trusses.
- Cladding plates, cladding uprights.
- Rafter anchors, cantilevers, headers, etc.

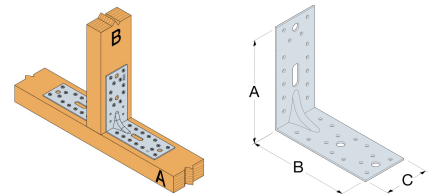


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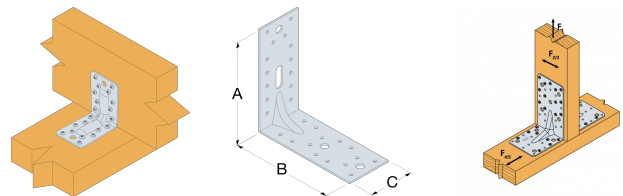
Technical Data

Product Dimensions



References	Product Dimensions [mm]				Joist			Holes flange B		Box Quantity
	A	B	C	t	Ø5	Ø11	Ø11x34	Ø5	Ø11	
E9/2.5	154	152.5	65	2.5	14	1	1	14	2	50

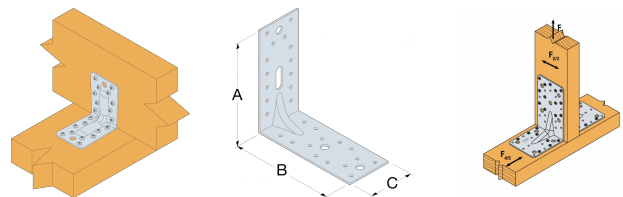
Wood/wood connection beam/beam type - assembly with 2 angle brackets



References	Product capacities - Timber beam to timber beam - Max nailing					
	Number of Fasteners		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]			
	Joist	Flange B	$R_{1,k}$		$R_{2,k} = R_{3,k}$	
	Qty	Qty	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
E9/2.5	12	14	5.1 / $k_{mod}^{(-0.1)}$	8.5 / $k_{mod}^{(-0.1)}$	9.5	13

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.

Wood/wood connection post/beam type - assembly with 2 angle brackets



References	Product capacities - Timber post to timber beam					
	Number of Fasteners		Characteristic capacities - Timber C24 - 2 angle brackets per connection [kN]			
	Joist	Flange B	$R_{1,k}$		$R_{2,k} = R_{3,k}$	
	Qty	Qty	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
E9/2.5	10	14	3.1	5.1	6.7	8.6

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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Installation

Fixing

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.

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:

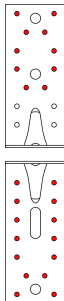
- *Chemical anchor:* AT-HP or POLY-GP resin + LMAS M12-150/35 threaded rod + SH M16-130 screen.

On steel:

- Bolts.

Installation

Use specified nails.



Fastening on wood support

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Technical Notes

Informations techniques

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.***

