



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



[UK-DoP-e06/0106](#), [ETA-06/0106](#)

FEATURES



Material

- Galvanized steel S250GD + Z275 according to NF EN 10346.

Benefits

- Haute rigidité,
- Polyvalence d'utilisations.

APPLICATIONS

Header member

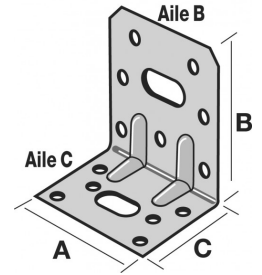
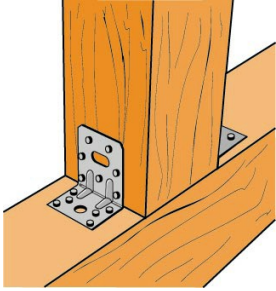
- Supporting member:** solid wood, glued-laminated wood, concrete, steel, etc.
- Supported member:** solid wood, composite lumber, glued-laminated wood, triangular trusses, profiles, etc.

For Use With

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

TECHNICAL DATA

Dimensions et perçages



References	Dimensions				Holes Leg B		Holes Leg C	
	A	B	C	Thickness	Screws or Nails	Oblong	Screws or Nails	Oblong
E5/2C50	65	75	48	2	7 Ø5	1 Ø11x22	6 Ø5	1 Ø11x22

Connection with Timber/Timber type Beam/Beam: 2 Brackets

References	Fixing Holes		Characteristic Capacities [kN]			
	Nails		Tension (F ₁)		Shear (F ₂ =F ₃)	
	Leg B	Leg C	Ø4.0x35	Ø4.0x50	Ø4.0x35	Ø4.0x50
E5/2C50	7	6	5.2	6.4	4.9	6.4

Connection with Timber/Concrete Support type Beam/Rigid Support: 2 Brackets

References	Fixing Holes		Characteristic Capacities [kN]			
	Nails <br / > Leg B	Bolts <br / > Leg C	Tension (F ₁)		Shear (F ₂ =F ₃)	
			Ø4.0x35	Ø4.0x50	Ø4.0x35	Ø4.0x50
E5/2C50	7	1 - M10	3.9	6.0	2.2	2.9

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:

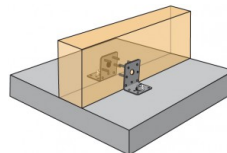
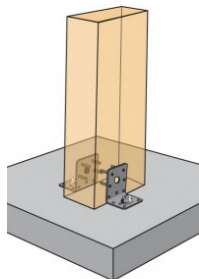
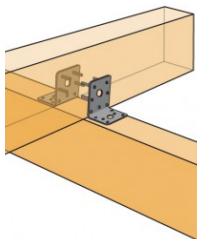
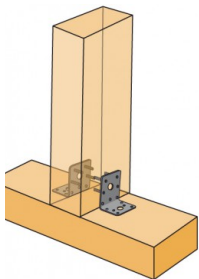
- Chemical anchor: AT-HP or POLY-GP resin + LMAS M12-150/35 threaded rod + SH M16-130 screen.

On steel:

- Bolts.

Installation

1. Approcher l'élément à fixer du support,
1. Pointer l'élément. Celui-ci peut aussi être vissé à l'aide de vis adaptées,
2. Si le support est en bois, l'équerre est aussi pointée ou vissée sur celui-ci,
2. Si le support est en béton, fixer l'équerre en respectant les préconisations de pose de l'ancrage choisi.



Beam
connection

Post connection

Beam
connection

Post connection

TECHNICAL NOTES

Technical Notes

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.

