



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



[ETA-06/0106](#)

FEATURES



Material

- Pre-galvanised mild steel.

Benefits

- Reinforced.
- Multiple applications.

APPLICATIONS

Suitable On

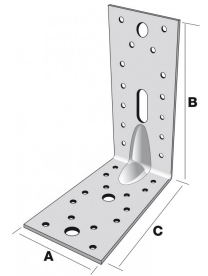
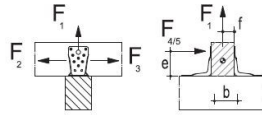
- **Supporting member:** solid wood, glued-laminated wood, concrete, steel, etc.
- **Supported member:** solid wood, composite lumber, glued-laminated wood, triangular trusses, profiles, etc.

When to Use

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

TECHNICAL DATA

Dimensions



| References | Dimensions | | | | Perçages aile B | | | Perçages aile C | |
|------------|------------|-----|-----|-----------|-----------------|--------|-----------|-----------------|--------|
| | A | B | C | Thickness | Screws or Nails | Bolts | Oblong | Screws or Nails | Bolts |
| E9/2,5 | 65 | 150 | 150 | 2.5 | 14 Ø 5 | 1 Ø 11 | 1 Ø 11X34 | 14 Ø 5 | 2 Ø 11 |

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

| References | Fixing | | Valeurs caractéristiques [kN] | | | |
|------------|---------------|---------------|-------------------------------|-----------|---------------|-----------|
| | Leg B (Nails) | Leg C (Nails) | Tension (F1) | | Shear (F2=F3) | |
| | | | CNA4.0x35 | CNA4.0x50 | CNA4.0x35 | CNA4.0x50 |
| E9/2,5 | 12 | 14 | 4.9 | 8.2 | 9.3 | 13 |

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

| References | Fixing | | Valeurs caractéristiques [kN] | | | |
|------------|---------------|---------------|-------------------------------|-----------|---------------|-----------|
| | Leg B (Nails) | Leg C (Nails) | Tension (F1) | | Shear (F2=F3) | |
| | | | CNA4.0x35 | CNA4.0x50 | CNA4.0x35 | CNA4.0x50 |
| E9/2,5 | 10 | 14 | 3.1 | 5.1 | 6.7 | 9.6 |

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.

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.

