Technical data sheet

ABR **Reinforced Angle Bracket**

Reinforced angle brackets are suitable for structural applications in framing and timber framed houses as well as light gauge steel construction.

Features

Material

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

Benefits

• Reinforcing ribs provide enhanced performance.

Applications

Suitable On

- Supporting member: solid wood, gluedlaminated 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. •
- Light gauge steel.



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Technical Data

Product Dimensions

References	Tun / DB nr.	NOB nr.	Box Quantity
ABR7015	1553168	45554233	50
ABR9020	1241531	41327099	50
ABR10525	1553164	45540683	50

Combined loads:

$$\sqrt{\left(rac{F_{1,d}}{R_{1,d}}+rac{F_{4/5,d}}{R_{4/5,d}}
ight)^2+\left(rac{F_{2/3,d}}{R_{2/3,d}}
ight)^2}\leq 1$$



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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.







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Technical Notes

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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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