

AKR

## Reinforced Angle Bracket

The AKR bracket is reinforced around the bend, which significantly increases the rigidity and strength of the bracket.

- One-piece connector.
- Reinforced corners provide enhanced performance.
- CNA nails must be used to achieve the published loads.

## Features

### Material

**Steel:****S 235JR acc. EN 10025****Corrosion protection:****Hot dip galvanized after fabrication acc. to EN ISO 1461 - zinc layer thickness approx. 55 µm**

### Benefits

- Load capacity in all directions
- Full and partial nailing
- Single or double sided connections
- Optional mounting with a distance to the support, only for tension connections
- Optimized bolt utilisation

## Applications

### Header member

**Supporting member:**

- Concrete, steel

**Supported member:**

- Timber, engineered wood

### Applications

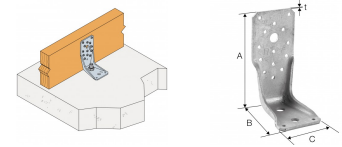
- The AKR angle brackets enable optimised connections between timber and other materials, like concrete, steel, etc.
- According to their overall galvanization the AKR angle brackets could be used in outdoor areas



## AKR Reinforced Angle Bracket

### Technical Data

#### Product Dimensions



| References | Product Dimensions [mm] |    |    |   | Holes Flange A |            | Holes Flange B |          |            |               |
|------------|-------------------------|----|----|---|----------------|------------|----------------|----------|------------|---------------|
|            | A                       | B  | C  | t | Ø5.2 [mm]      | Ø13.5 [mm] | Ø5 [mm]        | Ø11 [mm] | Ø13.5 [mm] | Ø13.5x25 [mm] |
| AKR95G     | 95                      | 85 | 65 | 4 | 9              | -          | 2              | 1        | 1          | -             |
| AKR95LG    | 95                      | 85 | 65 | 4 | 9              | -          | 2              | 1        | -          | 1             |
| AKR135G    | 135                     | 85 | 65 | 4 | 14             | 1          | 2              | 1        | 1          | -             |
| AKR135LG   | 135                     | 85 | 65 | 4 | 14             | 1          | 2              | 1        | -          | 1             |
| AKR285G    | 285                     | 85 | 65 | 4 | 26             | 3          | 2              | 1        | 1          | -             |
| AKR285LG   | 285                     | 85 | 65 | 4 | 26             | 3          | 2              | 1        | -          | 1             |

Further below you will find the load values for these nail patterns: Full nailing, Partial nailing and nailing to a column.

Further connection options are given in the according ETA.

#### Performance Values

| References | Fasteners |     |          | Characteristic Values [kN] |           |           |                     |           |           |
|------------|-----------|-----|----------|----------------------------|-----------|-----------|---------------------|-----------|-----------|
|            | Flange A  |     | Flange B | $R_{1,k}$                  |           |           | $R_{2,k} = R_{3,k}$ |           |           |
|            | Qty       | Qty | Anchor   | CNA4.0x35                  | CNA4.0x50 | CNA4.0x60 | CNA4.0x35           | CNA4.0x50 | CNA4.0x60 |
| AKR95G     | 8         | 8   | M12      | 8.8                        | 11.3      | 13.2      | 2.5                 | 3.1       | 3.5       |
| AKR95LG    | 8         | 8   | M12      | 6.7                        | 8.7       | 10.4      | 2.2                 | 2.8       | 3.2       |
| AKR135G    | 13        | 1   | M12      | 15.9                       | 20.3      | 23.5      | 4                   | 5         | 5.6       |
| AKR135LG   | 13        | 1   | M12      | 12.4                       | 16.2      | 19.2      | 3.6                 | 4.6       | 5.2       |
| AKR285G    | 25        | 1   | M12      | 22.6                       | 29.5      | 35.2      | 4.4                 | 5.8       | 7         |
| AKR285LG   | 25        | 1   | M12      | 16.5                       | 21.7      | 26.4      | 3.3                 | 4.4       | 5.4       |

## AKR Reinforced Angle Bracket

### Installation

#### Fixing

- Fixing on timber members with CNA4,0xl threaded nails or optional with CSA5,0xl screws and to concrete / steel with bolts M12 and a washer Ø24.
- Single or double sided connections are possible.

