



Suitable for joints where you need a larger load, angle of ribs. material



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

## FEATURES

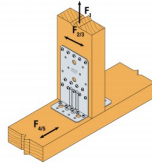


### Material

Steel grade:  
S250GD + Z275 according to DIN EN10346  
Corrosion protection:  
275 g / m galvanized on both sides 20mm

### Benefits

- High levels of load in three directions
- optimized use of nails needed to install
- suitable for connection to the concrete



## APPLICATIONS

### Applicable materials

Wood, wood products, concrete, steel

### Application area

• For connections of intersecting beams, purlins and rafters joint, as a substitute for a joist hanger, upper nail 160 mm, concrete screw M10

Values for joint wood and wood, two connections

\*\* Choose the largest number of nails for combined loads

\*\*\* R4 / 5 s b > e 60 mm and <90 mm. For further dimensions b and e, viz. ETA

\*\*\*\* R4 / 5 with b > 60 mm and e <150 mm. For further dimensions b and e, viz.ETA

Values for wood and concrete joint, two connecting

Screws are sold separately.

Load for each pair of screws at an angle are:

TECHNICAL DATA

Characteristic capacities - timber to timber

ABR170
ABR220

In cases, where the load direction  $F_1$  and/or  $F_2$  are acting without load direction  $F_{4/5}$ , the number of nails can be reduce acc. to the ETA.

Characteristic capacities - timber to concrete

ABR170
ABR220

For calculation of  $R_{4/5}$ , it is to use:  $e \geq 50$  mm

## INSTALLATION

### Installation

- connections using screws or nails CSA5,0xl CNA4,0xl

