

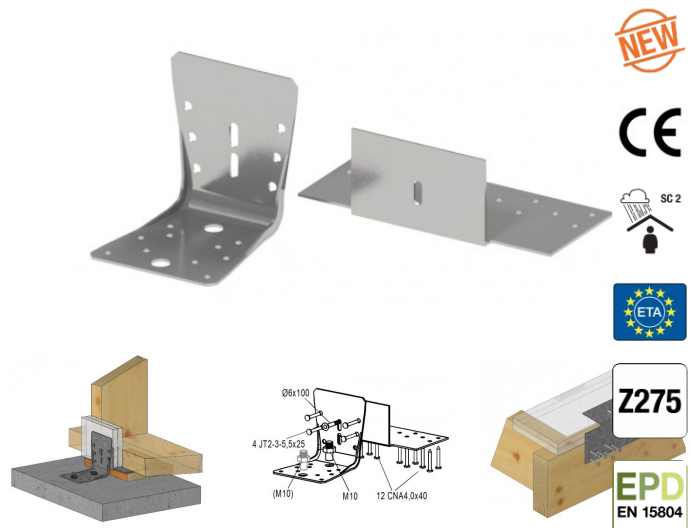
Technical data sheet

SIMPSON
Strong-Tie

SC2P

Two part shear connector

Making a statically relevant connection on the narrow side of a square timber is not easy in terms of the edge distances to be complied with. In the case of a threshold connection, the height compensation layer as well as a planking in front of it make it more difficult. In keeping with the two-part tie rods, this problem is certainly solved with the new two-piece shear angle SC2P. The SC2P consists of two different angle connectors, one angle of which is pre-assembled at the factory and the second angle is connected to the first on the construction site.



Features

Material

Steel quality:

S 250 GD + Z 275 according to DIN EN

Corrosion protection:

275 g/m2 galvanized on both sides 20mm

Benefits

- Setting up the base on site
- It's given the option for a height compensation up to 40mm
- fixing through a layer up to 30mm

Applications

Applications

Supporting member:

- Concrete, steel

Supported member:

- Solid wood, engineered wood

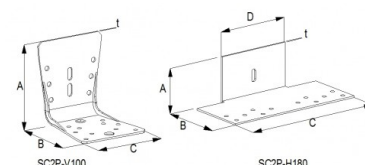
When to use

With this shear connector, timber constructions can be optimally connected to concrete substructures, as described, e.g. reinforced in wood frame construction.

SC2P Two part shear connector

Technical Data

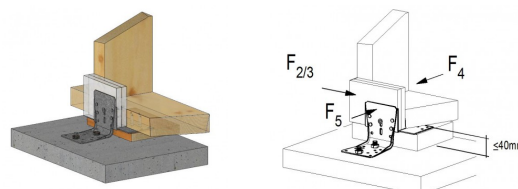
Product Dimensions



| References | Dimensions and drill holes [mm] | | | | | Holes Flange A | | Holes flange B | | Weight [kg] |
|------------|---------------------------------|-----|-----|----|---|----------------|------|----------------|-----|-------------|
| | A | B | C | D | t | Ø6 | 6x16 | Ø5 | Ø12 | |
| SC2P-V100 | 103 | 103 | 90 | - | 2 | 6 | 2 | 10 | 2 | 0.2 |
| SC2P-H180 | 57 | 82 | 180 | 95 | 2 | - | 1 | 12 | - | 0.32 |
| SC2P-1 | - | - | - | - | - | - | - | - | - | 0.7 |

The both parts, SC2P-V100 and SC2P-H180, are offered together with the appropriate EJOT screws only as set.

Product capacities - concrete



| References | Fastener for concrete | | | | Characteristic Capacities [kN] | | |
|------------|-----------------------|----------------------------------|----------|----------------------|--------------------------------|------------------|------------------|
| | Joist | | Flange B | | R _{2/3,k} | R _{4,k} | R _{5,k} |
| | Qty | Type | Qty | Type | | | |
| SC2P-1 | 4 + 1 | EJOT JT2-3-5.5x25 + Screw Ø6x100 | 1 + 12 | Bolt M10 + CNA4.0x40 | 6.8/kmod | 6.4/kmod | 5.4/kmod |

The capacities are valid for the combination of both items
For connection with 2 bolts, the capacity for R_{2/3,k} is 10.4/k_{mod}

Product capacities - timber

| References | Fastener for timber | | | | characteristic capacities on timber [kN] | | |
|------------|---------------------|----------------------------------|----------|-----------------------|--|------------------|----------------------|
| | Flange A | | Flange B | | R _{2/3,k} | R _{4,k} | R _{5,k} |
| | Qty | typ | Qty | typ | | | |
| SC2P-1 | 4 + 1 | EJOT JT2-3-5.5x25 + Screw Ø6x100 | 10 + 12 | CNA4.0x50 + CNA4.0x40 | 6.8/kmod | 6.4/kmod | min (5.6 ; 5.4/kmod) |

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Installation

Fasteners

The fastening is made on the wall element with CNA4.0x40

The fising on the floor is made with anchor Ø10mm, the options are given for using 1 or 2 anchors.

The connection between both SC2P elements is made with a Ø6mm screw and 4 self drilling screws JT-2-3-5,5x25 .

SC2P

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