



The SPR connector supports rafters from other timber members and can be sloped up or down by up to 45 degrees.



[ETA-08/0053](#), [UK-DoP-e08/0053](#)

FEATURES



Material

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

Benefits

- SPR with width from 38 to 140 mm and height from 100 to 400 mm can be made on special order and are covered by the CE MARKING.



APPLICATIONS

For Connecting

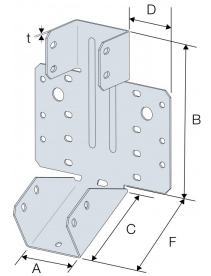
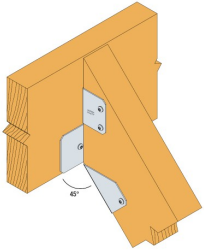
- Supporting member:** solid wood, composite lumber, glued-laminated wood, concrete, steel.
- Supported member:** solid wood, composite lumber, glued-laminated wood.

Applications

- Joists,
- Purlins,
- Smooth beams...

TECHNICAL DATA

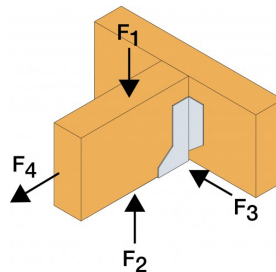
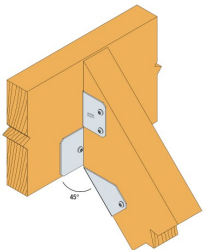
Product dimensions



References	Joist dimensions [mm]				Product dimensions [mm]						Header holes	Joist holes	
	Width		Height		A	B	C	D	F	t	Ø5	Ø5	Traingular
	Min.	Max.	Min.	Max.									
SPR47/140	45	47	145	200	47	140	74	43	78	1.5	13	8	2
SPR47/200	45	47	200	250	47	200	74	43	78	1.5	17	14	2
SPR91/140	89	91	145	200	91	140	74	43	78	1.5	18	8	2
SPR91/200	89	91	200	250	91	200	74	43	78	1.5	24	14	2

The lower heel of the joist hanger must be bent only once along the desired angle α .
The height of joist is dependet on the slope.

Product characteristic capacities - Timber beam to timber beam



References	Fasteners		Product characteristic capacities - Timber C24 [kN]		Safe working loads - timber C24 [kN]		
	Header	Joist	R _{1,k}	R _{2,k}	R _{1,SWL,Long term}	R _{1,SWL,Medium Term}	R _{2,SWL,Short term}
	Qty	Qty	N3.75x30	N3.75x30	N3.75x30	N3.75x30	N3.75x30
SPR47/140	13	10	6	6	2.5	2.9	3
SPR47/200	17	16	12.2	12.2	5.1	5.8	6.1
SPR91/140	18	10	8.3	8.3	3.5	4	4.2
SPR91/200	24	16	14.5	14.5	6	6.9	7.2

number in () are the number of square twist nails N3,75x30

INSTALLATION

Fasteners

On supported member:

- CNA annular ring-shank nails dia. 4.0 x 35 mm or CNA dia. 4.0 x 50 mm.
- Square twist nails N3,75x30

On supporting member:

Wood substrate:

- CNA annular ring-shank nails dia. 4.0 x 35 or CNA dia. 4.0 x 50 mm.
- Lag screws and bolts dia. 10 mm.
- Square twist nails N3,75x30

Concrete substrate:

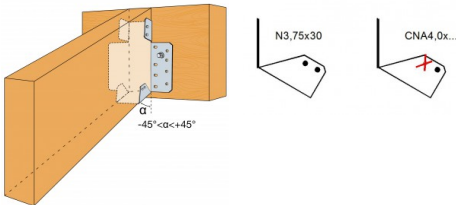
- Mechanical anchor: WA M10-78/5 .
- Chemical anchor threaded rod dia. 10 mm: LMAS M10-130 with AT-HP resin.

Metal substrate:

Bolts dia. 10 mm.

Installation

- Use all specified fasteners.
- Bend only once.
- To ensure proper seat installation, install the bottom nails prior to the side nails.
- Attach the sloped joist at both ends so that the horizontal force developed by the slope is fully supported by the carried members.



Typical
Installation