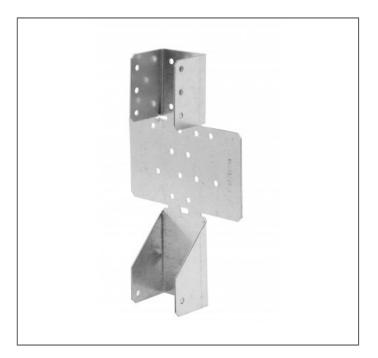
Technical data sheet SPR - TIMBER JOIST HANGER SLOPE ADJUSTABLE



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



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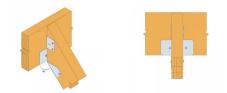
ETA-08/0053, UK-DoP-e08/0053

FEATURES



Material

 Galvanized steel S250GD + Z275 according to NF EN 10346.



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...

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	2022-03-22	www.strongtie.co.uk	

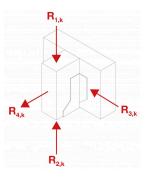
TECHNICAL DATA

Product dimensions

References	Joist dimensions [mm]			Product dimensions [mm]						Header holes	Joist holes		
References	Width		Height		Δ	B C D	D	F	+	Ø5	Ø5	Traingular	
	Min.	Max.	Min.	Max.	\sim	D		D		L L	25	25	Tangular
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	Faste	eners		aracteristic mber 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

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	2022-03-22	www.strongtie.co.uk	



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.



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		2022-03-22	www.strong