

Technical data sheet

SJH

Half face fix joist hanger

SIMPSON
Strong-Tie

Half joist hangers are used by pairs to secure joist with width between 36 and 140 mm, and height between 97 and 300 mm.

These half hangers can be set on opposite edges, or symmetrically, offering great flexibility

Version SJH-F has a seat, to maintain the joist while setting fasteners. The other version doesn't have a seat, allowing the joist to be put in place if connectors are set on header first.

Features

Material

Galvanized steel S250GD + Z275 according to NF EN 10346.

Benefits

- Great flexibility
- Two references can replace all joist hangers for joist from 97 to 300 mm height and from 35 to 140 mm width
- With a full threaded screw, it can be used with joist up to 300 mm height
- It can be used with internal or external flanges, or both
- 2 pairs can be used to increase the capacity
- Smaller cartons than with usual joist hanger

Applications

Support

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

Intended Use

- Joists.
- Refurbishment of existing assemblies.



NEW

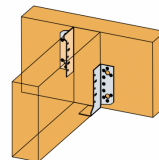
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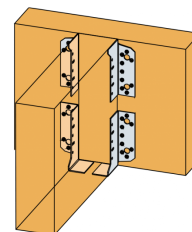
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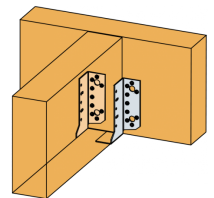
Z275



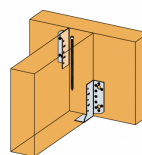
Installation SJHR+SJHR-F on wood



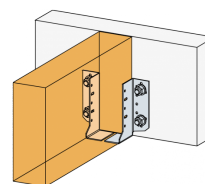
Installation SJHR+SJHR-F+SJHL+SJHL-F on wood



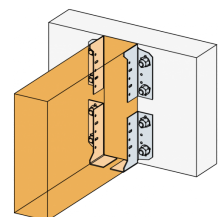
Installation SJHR + SJHR-F on wood



Installation SJHR + SJHR-F associated with ESCRFTZ screw



Installation SJHR-F + SJHL-F on concrete



Installation SJHR+SJHR-F+SJHL+SJHL-F on concrete

SJH Half face fix joist hanger

Technical Data

Product Dimensions

Table "Product Dimensions" cannot be displayed : no references available.

Product characteristic capacities - Timber to timber - full nailing

References	Product capacities - Timber to timber - Full nailing									
	Fasteners - per pair of SJH		Characteristic capacities - Timber C24 - per pair of SJH [kN]							
	Header	Joist	$R_{1,k}$		$R_{2,k}$		$R_{3,k}^{***}$		$R_{4,k}$	
	Qty	Qty	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
SJH80	8	6	5.4	7.8	5.4	7.8	1.6	1.6	2.4	3.9
SJH130	18	10	15.9	22.7	15.9	22.7	2.9	2.9	6.1	9.8

The capacity is valid for a pair of half hanger, no matter if they are set diagonally opposed or symmetrically, with internal or external flange.

For two pairs of hangers, the capacity can be multiply by two.

*** Only valid if half joist hangers are set diagonally

Product characteristic capacities - Timber beam to rigid support

References	Product capacities - Timber to Concrete									
	Fasteners - per pair of SJH				Characteristic capacities - Timber C24 - per pair of SJH [kN]					
	On post		On concrete		$R_{1,k}$		$R_{2,k}$		$R_{4,k}$	
	Qty	Type	Qty	Type	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50	CNA4.0x35	CNA4.0x50
SJH80	2	Ø10*	6	CNA**	9.9	13.2	9.9	13.2	5	5
SJH130	4	Ø12*	10	CNA**	16.6	22.2	16.6	22.2	8.4	10

Half joist hangers shall be set symmetrically on rigid support.

* Refer to the Simpson Strong-Tie anchor product range for suitable anchors. Typical anchor solutions are BOAXII, SET-XP, WA, AT-HP, depending on the concrete type, spacing and edge distances. The values in this table are given for an installation in the middle of a concrete slab. In other installation condition (close to the edge,...), the designer must check the anchor separately (Our free software Anchor Designer is available for download on our website).

** Refer to Characteristic Capacity table columns for type of fasteners that can be used in Flange A. Capacities vary depending on fastener type used.

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Installation

Fasteners

Joist :

- Connector Nails CNA Ø 4.0 x 50 mm.
- Connector Nails CNA Ø 4.0 x 35 mm
- Screws CSA Ø 5.0 x 40 mm
- Screws CSA Ø 5.0 x 35 mm

Header :

Timber

- Connector Nails CNA Ø 4.0 x 50 mm.
- Connector Nails CNA Ø 4.0 x 35 mm
- Screws CSA Ø 5.0 x 40 mm.
- Screws CSA Ø 5.0 x 35 mm

Concrete :

On concrete, SJH half hangers shall be set symmetrically

Mecahnical anchor : WA M10-78/5 (for SJH80) and WA M12-104/5 (for SJH130).

Chemical anchor : resin AT-HP with threaded rod LMAS M10-120/25 (for SJH80) and LMAS M12-150/35 (for SJH130).

Installation

The basic installation on timber:

placed diagonally: 1 SJHR + 1 SJHR-F.

or 1 SJHL + 1 SJHL-F

When joist height is important (see dimension table):

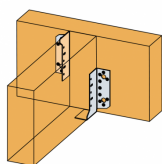
placed diagonally with one full threaded screw: 1 SJHR + 1 SJHR-F + 1 ESCRFTZ8.0.

or 1 SJHL + 1 SJHL-F+ 1 ESCRFTZ8.0

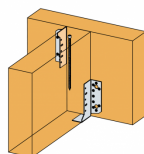
To increase capacity:

two pairs: 1 SJHR + 1 SJHR-F + 1 SJHL + 1 SJHL-F

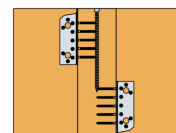
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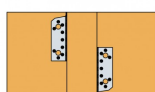
Installation SJHR+SJHR-F on wood



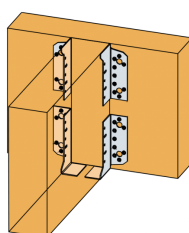
Installation SJHR + SJHR-F associated with ESCRFTZ screw



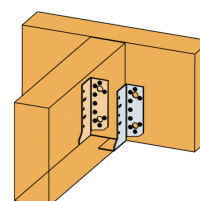
Installation SJHR + SJHR-F associated with ESCRFTZ screw - Front view



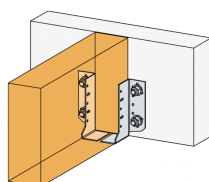
Installation SJHR + SJHR-F - front view



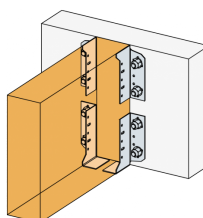
Installation SJHR+SJHR-F+SJHL+SJHL-F on wood



Installation SJHR + SJHR-F on wood



Installation SJHR-F + SJHL-F on concrete



Installation SJHR+SJHR-F+SJHL+SJHL-F on concrete

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