

Technical data sheet

SIMPSON
Strong-Tie

JHA Joist Hanger with Adjustable Height Strap

JHA is a height adjustable joist hanger for supporting timber joists from timber members. It is available in standard leg (JHA270) and long leg (JHA450) versions and can be installed to the face of the carrying joist or wrapped over the top for higher performance.

Features

Material

- Pre-galvanised mild steel.

Features

- A galvanised joist hanger that provides great support with ease of installation.
- Published performance values are based upon 3.75 x 30mm square twist nails being used throughout.
- Wider strap provides more surface area on the supporting timber and allows increased nail spacing, enhancing the performance of the critical hanger-to-support part of the connection.
- Minimum and maximum nailing schedules are stamped into the strap providing correct installation information for site operatives.
- Speed-prong holds the hanger in position to allow easier attachment. The installer no longer has to try to hold hanger, joist and nail with one hand and swing a hammer with the other!
- JHA270 range features a location tab which allows easier alignment of the hanger.
- The model number and size is stamped into the seat of the hanger for easy identification, even after installation.

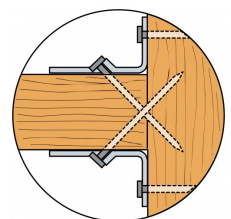
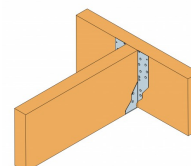
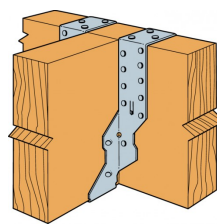
Applications

Suitable On

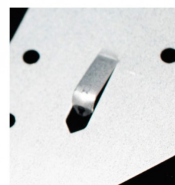
- **Solid sawn timber joists**

When to Use

- Face Fix
- Wrap Over



Double Shear Nailing.



Speed Prongs
(JHA270)

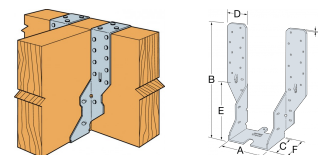


Location Tab (JHA270)

JHA Joist Hanger with Adjustable Height Strap

Technical Data

Product Dimensions - JHA270



References	Product Dimensions [mm]							Header holes	Joist holes
	A	B	C	D	E	F	t	Ø4	Ø6x4 Oblong
JHA270/38	38	241	50	48.8	106	52.1	0.9	22	4
JHA270/44	44	238	50	48.8	103	52.1	0.9	22	4
JHA270/47	47	236.5	50	48.8	101.5	52.1	0.9	24	4
JHA270/50	50	235	50	48.8	100	52.1	0.9	24	4
JHA270/63	63	248.5	50	48.8	113.5	52.1	0.9	22	4
JHA270/75	75	242.5	50	48.8	99.5	52.1	0.9	22	4
JHA270/91	91	234	50	48.8	95	52.1	0.9	22	4
JHA270/100	100	230	50	48.8	230	52.1	0.9	22	4



Product Dimensions - JHA450

JHA450 Below Support Installation.

References	Joist Size [mm]	Product Dimensions [mm]							Header holes	Joist holes
	Width	A	B	C	D	E	F	t	Ø4	Ø6x4 Oblong
JHA450/38	1x38	38	191	50	51.5	481	61.5	1.2	38	6
JHA450/44	1x44	44	188	50	51.5	478	61.5	1.2	38	6
JHA450/47	1x45	47	187	50	51.5	477	61.5	1.2	38	6
JHA450/50	1x50	50	185	50	51.5	475	61.5	1.2	38	6
JHA450/63	1x63	63	179	50	51.5	469	61.5	1.2	38	6
JHA450/75	1x75	75	173	50	51.5	463	61.5	1.2	38	6
JHA450/91	2x45	91	165	50	51.5	455	61.5	1.2	38	6
JHA450/100	2x50	100	160	50	51.5	450	61.5	1.2	38	6
JHA450/125	2x63	125	162.5	63	51.5	452.5	64.5	1.2	38	6
JHA450/137	3x45	137	156.5	63	51.5	446.5	64.5	1.2	38	6
JHA450/150	3x50	150	150	63	51.5	440	64.5	1.2	38	6

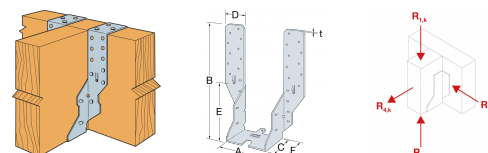
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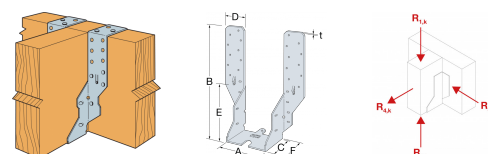
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Joist Hanger with Adjustable Height Strap



JHA270 - Wrap Over Installation

References	Header - Dimensions		Number of Fasteners			Characteristic capacities - Timber C16 [kN]		Safe Working Loads [kN]		
	Height		Header		Joist	$R_{1,k}$	$R_{2,k}$	$R_{1,SWL,Medium Term}$	$R_{1,SWL,Long term}$	Short Term Uplift
	Min	Max.	Face	Top	Qty	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	C16 header	C16 header	C16 Joist
			Qty	Qty				N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30
JHA270/38	125	200	8	4	4	10	2.1	4.8	4.2	1.1
JHA270/44	125	200	8	4	4	11.6	2.1	5.5	4.8	1.1
JHA270/47	125	200	8	4	4	12.4	2.1	5.9	5.2	1.1
JHA270/50	125	200	8	4	4	13.1	2.1	6.2	5.5	1.1
JHA270/63	125	200	8	4	4	13.2	2.1	6.3	5.5	1.1
JHA270/75	125	200	8	4	4	13.2	2.1	6.3	5.5	1.1
JHA270/91	125	200	8	4	4	13.2	2.1	6.3	5.5	1.1
JHA270/100	125	200	8	4	4	13.2	2.1	6.3	5.5	1.1



JHA450 - Wrap Over Installation

References	Number of Fasteners			Characteristic capacities - Timber C16 [kN]		Safe Working Loads [kN]		
	Header		Joist	$R_{1,k}$	$R_{2,k}$	$R_{1,SWL,Medium Term}$	$R_{1,SWL,Long term}$	Short Term Uplift
	Face	Top	Qty	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	C16 header	C16 header	C16 Joist
	Qty	Qty				N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30
JHA450/38	8	4	6	10	3.1	4.8	4.2	1.6
JHA450/44	8	4	6	11.6	3.1	5.5	4.8	1.6
JHA450/47	8	4	6	12.4	3.1	5.9	5.2	1.6
JHA450/50	8	4	6	13.1	3.1	6.3	5.5	1.6
JHA450/63	8	4	6	13.2	3.1	6.3	5.5	1.6
JHA450/75	8	4	6	13.2	3.1	6.3	5.5	1.6
JHA450/91	8	4	6	13.2	3.1	6.3	5.5	1.6
JHA450/100	8	4	6	13.2	3.1	6.3	5.5	1.6
JHA450/125	8	4	6	13.6	3.1	6.5	5.7	1.6
JHA450/137	8	4	6	13.6	3.1	6.5	5.7	1.6
JHA450/150	8	4	6	13.6	3.1	6.5	5.7	1.6

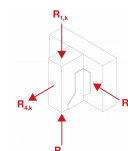
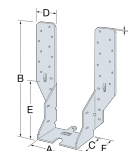
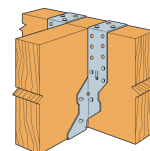
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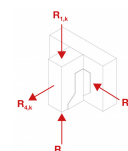
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JHA270 - Face Fix Installation

References	Header - Dimensions		Number of Fasteners			Characteristic capacities - Timber C16 [kN]		Safe Working Loads [kN]		
	Height		Header		Joist	$R_{1,k}$	$R_{2,k}$	$R_{1,SWL,Medium Term}$	$R_{1,SWL,Long term}$	Short Term Uplift
	Min	Max.	Face	Top	Qty	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	C16 header	C16 header	C16 Joist
			Qty	Qty				N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30
JHA270/38	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1
JHA270/44	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1
JHA270/47	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1
JHA270/50	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1
JHA270/63	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1
JHA270/75	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1
JHA270/91	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1
JHA270/100	200	250	20	-	4	7.6	2.1	3.6	3.2	1.1



JHA450 - Face Fix Installation

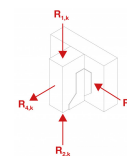
References	Number of Fasteners		Characteristic capacities - Timber C16 [kN]		Safe Working Loads [kN]		
	Header	Joist	$R_{1,k}$	$R_{2,k}$	$R_{1,SWL,Medium Term}$	$R_{1,SWL,Long term}$	Short Term Uplift
	Face	Qty	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	C16 header	C16 header	C16 Joist
	Qty				N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30
JHA450/38	20	6	10	3.1	4.8	4.2	1.6
JHA450/44	20	6	10.6	3.1	5.1	4.4	1.6
JHA450/47	20	6	10.6	3.1	5.1	4.4	1.6
JHA450/50	20	6	10.6	3.1	5.1	4.4	1.6
JHA450/63	20	6	10.6	3.1	5.1	4.4	1.6
JHA450/75	20	6	10.6	3.1	5.1	4.4	1.6
JHA450/91	20	6	10.6	3.1	5.1	4.4	1.6
JHA450/100	20	6	10.6	3.1	5.1	4.4	1.6
JHA450/125	20	6	11.6	3.1	5.5	4.8	1.6
JHA450/137	20	6	11.6	3.1	5.5	4.8	1.6
JHA450/150	20	6	11.6	3.1	5.5	4.8	1.6

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JHA450 - Below Support (Loft Conversion) Installation

References	Number of Fasteners			Characteristic capacities - Timber C16 [kN]		Safe Working Loads [kN]		
	Header		Joist	R _{1,k}	R _{2,k}	R _{1,SWL,Medium Term}	R _{1,SWL,Long term}	Short Term Uplift
	Face	Top	Qty	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	C16 header	C16 header	C16 Joist
	Qty	Qty				N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30	N3.75x30 CSA4.0x30
JHA450/38-100	4	4	6	9.6	-	4.6	4	-
JHA450/125-150	4	4	6	10.1	-	4.8	4.2	-
JHA450/38-100 (alt)	20	-	6	9.6	-	4.6	4	-
JHA450/125-150 (alt)	20	-	6	10.1	-	4.8	4.2	-

JHA Joist Hanger with Adjustable Height Strap

Installation

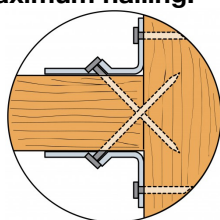
Installation

Alternative installation methods are available depending on the availability of nailing surface.

Maximum Nailing: All nails must be applied according to the table.

Minimum Nailing: For a lower installed cost the minimum nailing schedule can be used. A minimum wrap over of 45mm is required.

Loft Conversions (JHA450 Range): For applications where the hanger extends below the support. Install top, face, and joist nails according to the table. A minimum wrap over of 45mm is required or maximum nailing.



Double Shear Nailing.

