



See table on page 21.

- JHA's are a one piece, non-welded, joist hanger for supporting timber joists from timber members.
- Manufactured under the BM TRADA Q-Mark Certification Scheme.
- A galvanised joist hanger that provides greater joist support combined with ease of installation that can be adjusted to suit height of joist.
- Simpson's exclusive double shear nailing feature guides nails into joist at a 45° angle. All hangers in this series have double shear nailing. This patented innovation distributes the load through two points on each joist nail for greater strength. It also allows the use of fewer nails and faster installation.
- This provides easier nail driving as the installer doesn't need to swing the hammer sideways. The nail is supported at the side of the hanger and at the header which generates higher load capacities.
- 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 of most models 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!
- The model number and size is stamped into the seat of most models for easy identification of the hanger, even after installation.

MATERIAL: JHA270—0.9mm pre-galvanised mild steel to BS EN 10327:2004 DX51D+Z275;
JHA450—1.5mm pre-galvanised mild steel to BS EN 10327:2004 DX51D+Z275.

INSTALLATION: Three different installation methods are available depending on the availability of nailing surface.

Maximum nailing—All nails must be applied according to the table. The nails used for the joist attachment must be driven at an angle so that the nails penetrate through the corner of the joist into the header.

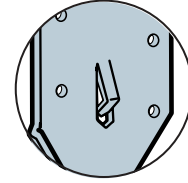
Minimum nailing—For a lower installed cost the minimum nailing schedule can be used when the maximum nailing load capacity is not needed. The nails used for the joist attachment must be driven at an angle so that the nails penetrate through the corner of the joist into the header. A minimum wrap over of 55 mm is required.

Loft conversions—for applications where the hanger extends below the support. Install top, face, and joist nails according to the table. A minimum wrap over of 55 mm is required.

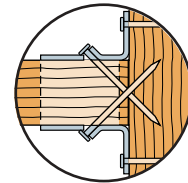
OPTIONS: Because these hangers are fully die-formed they cannot be modified.

**JHA270
Speed Prongs**

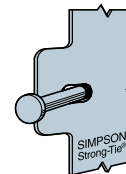
Used to temporarily position and secure the hanger for easier and faster installation.



Double Shear Nailing

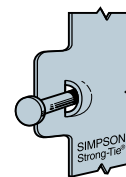


Double Shear Nailing

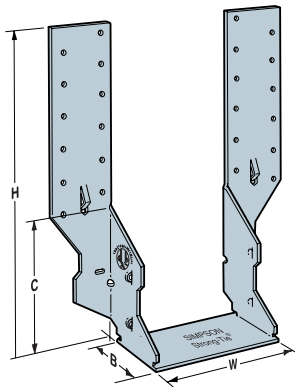


For JHA450 range of hangers, install joist nails at 45° through obround holes for double shear nailing

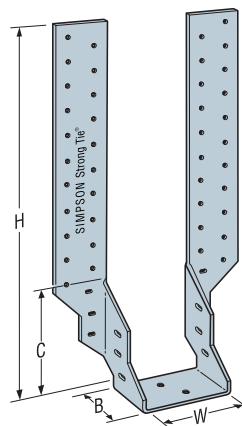
Dome Double Shear Nailing
(available on some models)



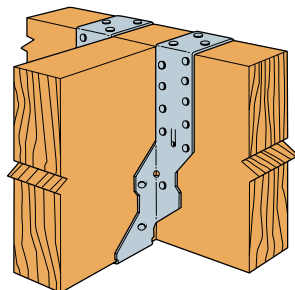
JHA270 Adjustable Hanger
EPC Patent Pending (FR) (DE) (GB)



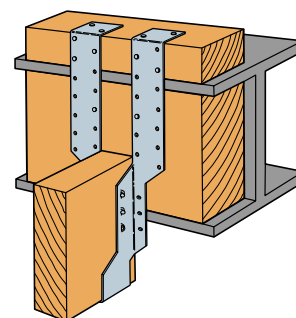
JHA450 Adjustable Hanger



JHA270 Installation



JHA450 Below Support Installation



JHA SPECIFICATIONS

Joist Width (mm)	Model No.	Dimensions				Fasteners			Safe Working Loads (kN) ¹			Slip Modulus ² kN/mm
		W	H	B	C	Carrying Member		Carried Member	Short Term Uplift	Long Term	Medium Term	
						Top	Face					
Minimum nailing												
38	JHA270/38	38	271	50	113	4 – 3.75 x 30	4 – 3.75 x 30	4 – 3.75 x 75	2.00	5.19	5.94	2.0
	JHA450/38	38	481	50	191	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	7.30	8.30	5.7
44	JHA270/44	44	268	50	110	4 – 3.75 x 30	4 – 3.75 x 30	4 – 3.75 x 75	2.00	5.19	5.94	2.0
	JHA450/44	44	478	50	188	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	7.30	8.30	4.8
50	JHA270/50	50	265	50	107	4 – 3.75 x 30	4 – 3.75 x 30	4 – 3.75 x 75	2.00	5.19	5.94	2.0
	JHA450/50	50	475	50	185	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	7.30	8.30	4.8
63	JHA270/63	63	260	50	102	4 – 3.75 x 30	4 – 3.75 x 30	4 – 3.75 x 75	2.00	5.19	5.94	2.0
	JHA450/63	63	469	50	179	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	7.30	8.30	4.8
75	JHA270/75	75	279	50	121	4 – 3.75 x 30	4 – 3.75 x 30	4 – 3.75 x 75	2.00	5.19	5.94	2.0
	JHA450/75	75	463	50	173	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	7.30	8.30	4.8
2 ply 50	JHA270/100	100	267	50	109	4 – 3.75 x 30	4 – 3.75 x 30	4 – 3.75 x 75	2.00	5.46	6.11	2.0
	JHA450/100	100	450	50	160	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	7.30	8.30	4.8
125	JHA450/125	125	449	63	129	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	7.30	8.30	4.8
3 ply 50	JHA450/150	150	436	63	116	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 75	2.00	8.00	9.10	4.8
Maximum nailing												
38	JHA270/38	38	271	50	113	—	22 – 3.75 x 30	4 – 3.75 x 75	2.00	5.54	6.33	3.1
	JHA450/38	38	481	50	191	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
44	JHA270/44	44	268	50	110	—	22 – 3.75 x 30	4 – 3.75 x 75	2.00	5.54	6.33	3.1
	JHA450/44	44	478	50	188	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
50	JHA270/50	50	265	50	107	—	22 – 3.75 x 30	4 – 3.75 x 75	2.00	5.54	6.33	3.1
	JHA450/50	50	475	50	185	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
63	JHA270/63	63	260	50	102	—	22 – 3.75 x 30	4 – 3.75 x 75	2.00	5.54	6.33	3.1
	JHA450/63	63	469	50	179	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
75	JHA270/75	75	279	50	121	—	22 – 3.75 x 30	4 – 3.75 x 75	2.00	5.54	6.33	3.1
	JHA450/75	75	463	50	173	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
2 ply 50	JHA270/100	100	267	50	109	—	22 – 3.75 x 30	4 – 3.75 x 75	2.00	6.12	7.00	3.1
	JHA450/100	100	450	50	160	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
125	JHA450/125	125	449	63	129	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
3 ply 50	JHA450/150	150	436	63	116	—	22 – 3.75 x 30	6 – 3.75 x 75	2.00	8.30	9.50	3.9
Special installation common to loft conversions												
38	JHA450/38	38	481	50	191	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1
44	JHA450/44	44	478	50	188	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1
50	JHA450/50	50	475	50	185	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1
63	JHA450/63	63	469	50	179	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1
75	JHA450/75	75	463	50	173	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1
2 ply 50	JHA450/100	100	450	50	160	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1
125	JHA450/125	125	449	63	129	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1
3 ply 50	JHA450/150	150	436	63	116	4 – 3.75 x 30	4 – 3.75 x 30	6 – 3.75 x 30	—	5.29	6.05	4.1

1. Safe Working Loads are based on load tests conducted at CERAM Building Technology or TRADA Technology Ltd. and derived in accordance with or based on TRADA Certification's Timber Engineering Hardware Product Q-Mark Scheme. Contact Simpson's technical department for further information.
2. Slip modulus can be used as guidance for determining approximate deflection under load.
3. Loft conversion loads are not included in Q-Mark Scheme.