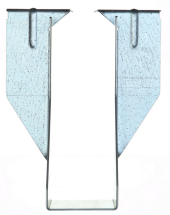
Technical Sheet

JHMI
Joist Hanger for Masonry: I-Joists

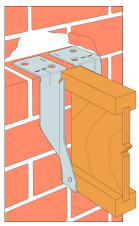
The JHM and JHMI range of joist hangers can be used to connect solid sawn joists, trusses and engineered joists to masonry walls or steel beams.

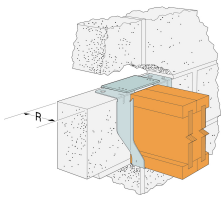


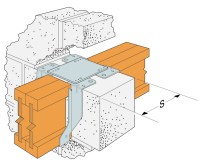


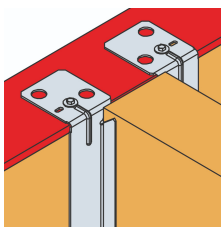




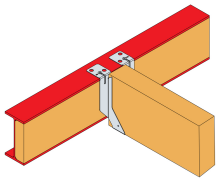




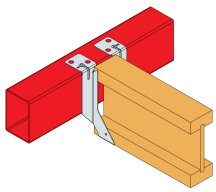




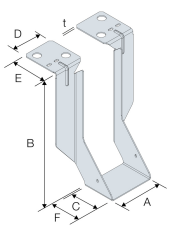
Fasteners to be installed through the inner obround slot in the hanger top flange.



Timber in the flange of the 'I section steel beam is required when hanger depth is shallower than steel depth. Timber to finish flush with outer edges of 'I' section's flanges.



Hanger to be tight against the face of the supporting member. No gap allowed.



Features

Material

- Pre-galvanised mild steel

Benefits

- Built-in inspection slot at the base of the hanger to aid inspection from the ground.
- Top flange provides widest area in contact with masonry support allowing superior performance.
- Embossments on top flange, and holes, allow improved mortar keying.
- Flanges on hangers are much higher than traditional style, providing greatly enhanced resistance to joist rotation.
- Can be installed onto 'I' section or hollow section steel beams.

Applications

Options

- Return configuration provides additional support by wrapping around three sides of the block. Designate "return" and length of return dimensions when ordering.
- JHMI, JHMIR OR JHMIS HANGERS DO NOT SATISFY THE REQUIREMENTS FOR LATERAL RESTRAINT TYPE HANGERS UNLESS STRAPS ARE FITTED.
- Straddle configuration provides two hangers connected across top of support enabling exact alignment on both sides of supporting wall. Designate "straddle" and length of straddle dimensions when ordering.
- Other widths and heights available to order.

Technical Sheet

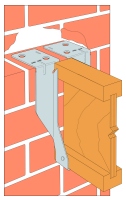
JHMI
Joist Hanger for Masonry: I-Joists

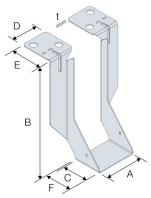
Technical Data

JHMI Enhanced Uplift

Model	Size Range		Joist Fasteners		Characteristic Capacity (kN)
	Width	Height	Qty	Specification	Enhanced Uplift
JHMI	38 - 47	140 - 400	6	3.75 x 30mm	3.16
JHMI	50 - 100	**140-400**	6	3.75 x 30mm	3.73

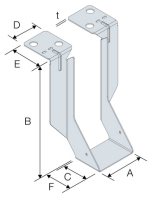
1) 3.75x30mm refers to 3.75 x 30mm square twist nails





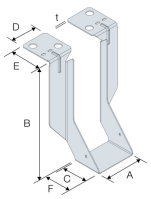
Product Dimensions

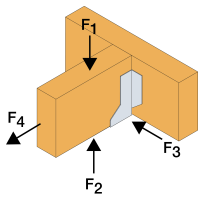
Reference	Connector Dimensions										
	Joist dimensions[mm]		Product Dimensions[mm]							Joist holes	Other
	Width[mm]	Height[mm]	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	t[mm]	Round Ø4	Weight[kg]



Product Dimensions - Metal Web Joists

Reference	Connector Dimensions									
	Metal Web		Product Dimensions[mm]							Joist holes
	Width[mm]	Height[mm]	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	t[mm]	Round Ø4
JHMI	-	-	-	-	-	-	-	-	-	2
SPEC JHMSK	-	-	40-61	400-450	64	64	-	-	2.5	2



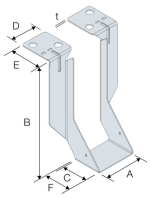


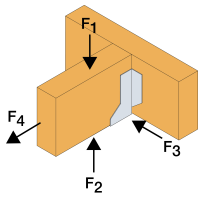
Product Capacities - Masonry

Reference	Hanger capacity									
	Standard									
	Characteristic Capacities[kN]				Number of Fasteners		Safe Working Loads			
	$R_{2,k}$	$R_{1,k}$			Joist		$R_{2,sWl,short\ term}$	R1,SWL		
		2.8N/mm² Solid AAC	3.5N/mm² Solid LAC	7.0N/mm² Solid DAC	Qty	Type		2.8N/mm² Solid AAC	3.5N/mm² Solid LAC	7.0N/mm² Solid DAC
JHMI	1.8	10.5	12.8	20	2.0	3.75 x 30	1	5.2	6.4	10

Technical Sheet

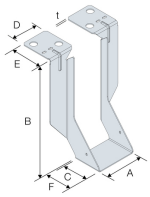
JHMI
Joist Hanger for Masonry: I-Joists





Product Capacities - Masonry - Enhanced Uplift

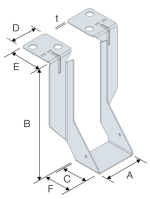
Reference	Hanger capacity									
	Enhanced uplift									
	Characteristic Capacities[kN]				Safe Working Loads				Number of Fasteners	
	$R_{2,k}$	$R_{1,k}$			$R_{2,sWl,short\ term}$	R1,SWL			Joist	
		2.8N/mm² Solid AAC	3.5N/mm² Solid LAC	7.0N/mm² Solid DAC		2.8N/mm² Solid AAC	3.5N/mm² Solid LAC	7.0N/mm² Solid DAC	Qty	Type
JHMI	3.1	10.5	12.8	20	-	5.2	6.4	10	-	-
SPEC JHMSK	-	-	-	-	-	-	-	-	-	-

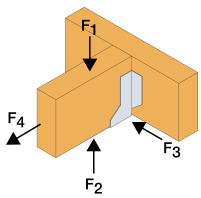


Product Capacities - Masonry & Skewed

Reference	Hanger capacity					
	Skewed					
	Safe Working Loads				Number of Fasteners	
	$R_{2,sWl,short\ term}$	R1,SWL			Joist	
		2.8N/mm² Solid AAC	3.5N/mm² Solid LAC	7.0N/mm² Solid DAC	Qty	Type
SPEC JHMSK	-	5	5.1	5.1	4	N3.75x30

1. Maximum skew 45°





Product Capacities - Shot Fired to Steel Girder

Reference	Hanger capacity				
	Steel				
	Safe Working Loads	Number of Fasteners			
	$R_{1,sWl,long\ term}$	Header		Joist	
		Qty	Type	Qty	Type
JHMI	5.1	4	Shot Fire Pns*	2	N3.75x30

1.The above Safe Working Loads are based upon product tests using four No. Hilti 12mm X-EDNI steel pins fired through holes provided in the top flange of the hangers onto 4mm thick steel plate. Other pins may be used provided similar structural performance is verified by the pin manufacturer. Pin Head size must be sufficient to prevent pull through during loading.
2.The designer must ensure that the steel support member will support the imposed loads.
3.Install shot-fired pins in accordance with manufacturer's instructions.

Technical Sheet

JHMI
Joist Hanger for Masonry: I-Joists

Product Performance - Mechanically Fixed to Steel Beam

Reference	Hanger capacity					
	Mechanically Fixed to Steels				Steel	
	Safe Working Loads[kN]	Number of Fasteners		Characteristic Load[kN]	Number of Fasteners	
	$R_{1, sW, long\ term}$	Header		$R_{1,k}$	Joist	
		Qty	Type		Qty	Type
JHMI	10.8	2.0	XLQ114B1224	19	2	N3.75x30

- The designer / engineer must ensure that the steel support can take the imposed loads
- Suitable for Steel I-beams and Hollow Sections upto 12.5mm thick
- Timber is required in the web of steel I-beam when the hanger depth is less than the steel depth. Timber must finish flush with outer edges of steel I-beam

Fastener Reference	Length [mm]	Hex Head [in]	Washer Diameter [mm]	Shank Diameter [mm]	Suitable Material Thickness [mm]	Recommended Install Speed [RPM]
XLQ114B1224	32	5/16"	16	5.5	3.5 - 12.5	1400

Installation

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Standard Masonry Installation

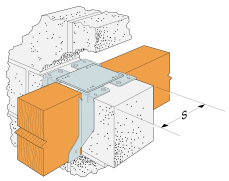
- Use all specified fasteners. See table.
- Hanger must be installed so that the back flange is tight against the face of the supporting member.
- MINIMUM 3 COURSES OF SOLID BLOCK (675MM MASONRY) REQUIRED ABOVE HANGER, WITH MORTAR FULLY CURED, BEFORE APPLYING LOAD.
- Do not stack blocks or heavy loads on the joists during construction unless the joists have additional support to take the full load of the blocks, vertically and horizontally.

Fixed to Steel Beams

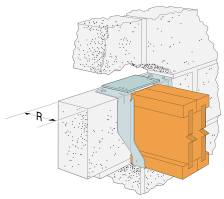
- The JHMI range can be mechanically fixed to steel beams of thicknesses up to 12.5mm
- Timber is required in the web of the 'I' section steel beam when the hanger depth is less than the steel depth
- Timber must be flush with the outer edges of the 'I' section steel beam
- The shot-fired pins must be installed by a qualified person in accordance with the manufacturer's installation requirements.

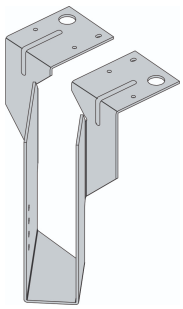
JHMI
Joist Hanger for Masonry: I-Joists

Options

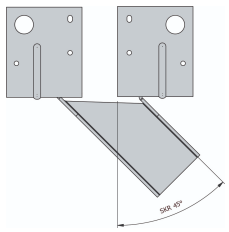


JHMS Straddle Configuration





SPEC JHMSK Skewable Option



SPEC JHMSK Top View

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