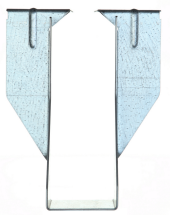
Technical Sheet

JHMI
Joist Hanger for Masonry: I-Joists

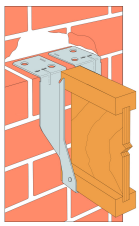
The JHM and JHMI range of joist hangers can be used to connect solid sawn joists, trusses and engineered joists to masonry walls or steel beams.

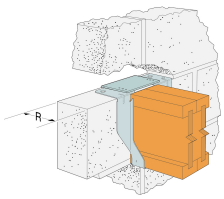


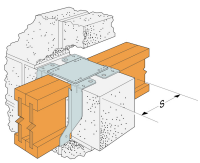


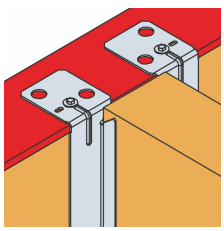




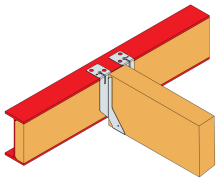




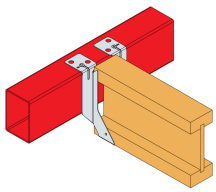




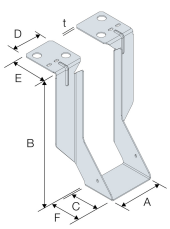
Fasteners to be installed through the inner obround slot in the hanger top flange.



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.

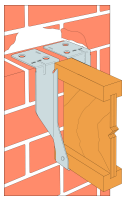
Technical Sheet

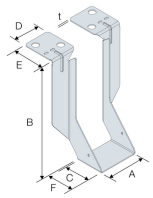
JHMI
Joist Hanger for Masonry: I-Joists

Technical Data

Technical Sheet

JHMI
Joist Hanger for Masonry: I-Joists





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]
JHMI195/40	38	195	40	195	64	64	75	75	2	2	0.581
JHMI225/40	38	220	40	225	64	64	75	75	2	2	0.642
JHMI240/40	38	240	40	240	64	64	75	75	2	2	0.673
JHMI300/40	38	300	40	300	64	64	75	75	2	2	0.797
JHMI145/47	45	145	47	145	64	64	75	75	2	2	-
JHMI195/47	45	195	47	195	64	64	75	75	2	2	0.588
JHMI200/47	45	200	47	200	64	64	75	75	2	2	0.639
JHMI225/47	45	220	47	225	64	64	75	75	2	2	0.65
JHMI240/47	45	240	47	240	64	64	75	75	2	2	0.68
JHMI253/47	45	253	47	253	64	64	75	75	2	2	0.707
JHMI300/47	45	300	47	300	64	64	75	75	2	2	0.804
JHMI350/47	45	350	47	350	64	64	75	75	2	2	0.907
JHMI400/47	45	400	47	400	64	64	75	75	2	2	1.01
JHMI225/50	47	220	50	225	64	64	75	75	2	2	0.653
JHMI240/50	47	240	50	240	64	64	75	75	2	2	0.684
JHMI300/50	47	300	50	300	64	64	75	75	2	2	0.807
JHMI220/56	53	220	56	220	64	64	75	75	2	2	0.649
JHMI225/56	53	220	56	225	64	64	75	75	2	2	0.659
JHMI240/56	53	240	56	240	64	64	75	75	2	2	0.69
JHMI300/56	53	300	56	300	64	64	75	75	2	2	0.813
JHMI200/61	58	200	61	200	64	64	75	75	2	2	0.612
JHMI400/61	58	400	61	400	64	64	75	75	2	2	1.024
JHMI225/63	60	220	63	225	64	64	75	75	2	2	0.666
JHMI225/66	63	220	66	225	64	64	75	75	2	2	0.669
JHMI235/66	63	235	66	235	64	64	75	75	2	2	-
JHMI240/66	63	240	66	240	64	64	75	75	2	2	0.7
JHMI245/66	63	245	66	245	64	64	75	75	2	2	0.71
JHMI300/66	63	300	66	300	64	64	75	75	2	2	0.824
JHMI200/72	70	200	72	200	64	64	75	75	2	2	-
JHMI225/72	70	220	72	225	64	64	75	75	2	2	0.675
JHMI240/72	70	240	72	240	64	64	75	75	2	2	0.706
JHMI300/72	70	300	72	300	64	64	75	75	2	2	0.83
JHMI400/72	70	400	72	400	64	64	75	75	2	2	-
JHMI195/75	72	195	75	195	64	64	75	75	2	2	0.617
JHMI200/75	72	200	75	200	64	64	75	75	2	2	0.627
JHMI225/75	72	220	75	225	64	64	75	75	2	2	0.678
JHMI235/75	72	235	75	235	64	64	75	75	2	2	-
JHMI245/75	72	245	75	245	64	64	75	75	2	2	0.72
JHMI253/75	72	253	75	253	64	64	75	75	2	2	0.736
JHMI300/75	72	300	75	300	64	64	75	75	2	2	0.833
JHMI350/75	72	350	75	350	64	64	75	75	2	2	0.936
JHMI400/75	72	400	75	400	64	64	75	75	2	2	1.039

Technical Sheet

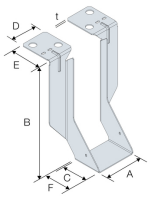
JHMI

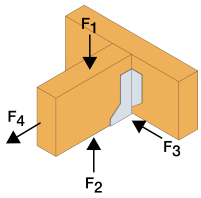
Joist Hanger for Masonry: I-Joists

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]
JHMI225/78	2x38	220	78	225	64	64	75	75	2	2	0.681
JHMI235/78	2x38	235	78	235	64	64	75	75	2	2	-
JHMI240/78	2x38	240	78	240	64	64	75	75	2	2	0.712
JHMI300/78	2x38	300	78	300	64	64	75	75	2	2	0.836
JHMI195/91	2x45 or 89-90	195	91	195	64	64	75	75	2	2	0.633
JHMI200/91	2x45 or 89-90	200	91	200	64	64	75	75	2	2	0.643
JHMI225/91	2x45 or 89-90	220	91	225	64	64	75	75	2	2	0.695
JHMI235/91	2x45 or 89-90	235	91	235	64	64	75	75	2	2	-
JHMI240/91	2x45 or 89-90	240	91	240	64	64	75	75	2	2	0.726
JHMI245/91	2x45 or 89-90	245	91	245	64	64	75	75	2	2	-
JHMI253/91	2x45 or 89-90	253	91	253	64	64	75	75	2	2	0.753
JHMI300/91	2x45 or 89-90	300	91	300	64	64	75	75	2	2	0.849
JHMI350/91	2x45 or 89-90	350	91	350	64	64	75	75	2	2	0.952
JHMI400/91	2x45 or 89-90	400	91	400	64	64	75	75	2	2	1.055
JHMI225/96	2x47	220	96	225	64	64	75	75	2	2	0.7
JHMI240/96	2x47	240	96	240	64	64	75	75	2	2	0.731
JHMI300/96	2x47	300	96	300	64	64	75	75	2	2	0.854
JHMI253/99	96-97	253	99	253	64	64	75	75	2	2	0.761
JHMI225/122	2x60	220	122	225	64	64	75	75	2	2	0.726
JHMI240/122	2x60	240	122	240	64	64	75	75	2	2	0.757
JHMI300/122	2x60	300	122	300	64	64	75	75	2	2	0.88
JHMI400/122	2x60	400	122	400	64	64	75	75	2	2	1.086
JHMI200/125	125	200	125	200	64	64	75	75	2	2	0.677
JHMI225/125	125	225	125	225	64	64	75	75	2	2	0.729
JHMI253/125	125	253	125	253	64	64	75	75	2	2	0.787
JHMI225/128	2x63	220	128	225	64	64	75	75	2	2	0.732
JHMI245/128	2x63	245	128	245	64	64	75	75	2	2	0.763
JHMI300/128	2x63	300	128	300	64	64	75	75	2	2	0.886
JHMI240/142	2x70 or 140	240	142	240	64	64	75	75	2	2	0.777
JHMI225/146	2x75	225	146	225	64	64	75	75	2	2	0.751
JHMI245/146	2x78	245	146	245	64	64	75	75	2	2	0.792
JHMI300/146	2x80	300	146	300	64	64	75	75	2	2	0.905
JHMI200/150	2x75 or 147	200	150	195	64	64	75	75	2	2	0.703
JHMI225/150	2x75 or 147	225	150	225	64	64	75	75	2	2	0.755
JHMI253/150	2x75 or 147	253	150	253	64	64	75	75	2	2	0.812
JHMI300/150	2x75 or 147	300	150	300	64	64	75	75	2	2	0.909

Technical Sheet

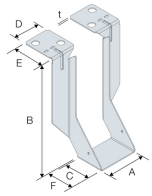
JHMI
Joist Hanger for Masonry: I-Joists





Product Capacities - Masonry

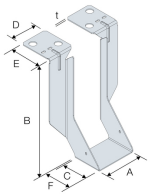
Reference	Hanger capacity									
	Standard									
	Characteristic Capacities[kN]				Number of Fasteners		Safe Working Loads			
	$R_{2,k}$	$R_{1,k}$			Joist		$R_{2,sWl,short\ term}$	R1,SWL		
		2.8N/mm² Solid AAC	3.5N/mm² Solid LAC	7.0N/mm² Solid DAC	Qty	Type		2.8N/mm² Solid AAC	3.5N/mm² Solid LAC	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

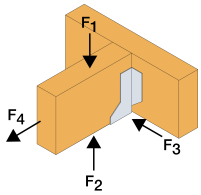


Product Capacities - Masonry & Skewed

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

Ínstallation

Standard Masonry Installation

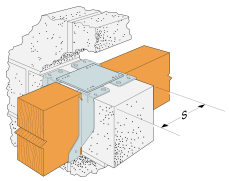
- Use all specified fasteners. See table.
- Hanger must be installed so that the back flange is tight against the face of the supporting member.
- MINIMUM 3 COURSES OF SOLID BLOCK (675MM MASONRY) REQUIRED ABOVE HANGER, WITH MORTAR FULLY CURED, BEFORE APPLYING LOAD.
- Do not stack blocks or heavy loads 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

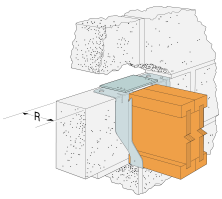
- The JHMI range can be mechanically fixed to steel beams of thicknesses up to 12.5mm
- Timber is required in the web of the 'I' section steel beam when the hanger depth is less than the steel depth
- Timber must be flush with the outer edges of the 'I' section steel beam
- The shot-fired pins must be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

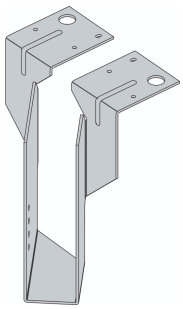
JHMI
Joist Hanger for Masonry: I-Joists

Options

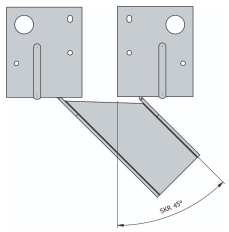


JHMS Straddle Configuration





SPEC JHMSK Skewable Option



SPEC JHMSK Top View

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