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.

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 'l' 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.



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Technical Data

JHMI Enhanced Uplift

Model	Size	Range	Jo	ist Fasteners	Characteristic Capacity (kN)		
wodei	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) 3.75}x30mm refers to 3.75 x 30mm square twist nails





Product Dimensions

References	Joist dimensions [mm]			Han	ger Din	nension	ıs [mm]	Joist holes	Woight [kg]		
neierences	Width	Height	Α	В	C	D	Е	F	t	Ø4	Weight [kg]
JHMI235/66	63	235	66	235	64	64	75	75	2	2	-
JHMI200/72	70	200	72	200	64	64	75	75	2	2	-
JHMI400/72	70	400	72	400	64	64	75	75	2	2	-
JHMI235/75	72	235	75	235	64	64	75	75	2	2	-
JHMI235/78	2x38	235	78	235	64	64	75	75	2	2	-
JHMI235/91	2x45 or 89-90	235	91	235	64	64	75	75	2	2	-
JHMI245/91	2x45 or 89-90	245	91	245	64	64	75	75	2	2	-

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Product Dimensions - Metal Web Joists

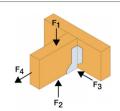
Doforonoo	Joist di	mensions		Hanger	Dimensio	ns (mm]			Joist holes	
References	Width	Height	Α	В	C	D	E	F	t	Ø4	
JHMI114/40	-	-	40	114	64	64	75	75	2	2	
JHMI140/40	-	-	40	140	64	64	75	75	2	2	
JHMI184/40	-	-	40	184	64	64	75	75	2	2	
JHMI350/40	-	-	40	350	64	64	75	75	2	2	
JHMI184/47	-	-	47	184	64	64	75	75	2	2	
JHMI235/50	-	-	50	235	64	64	75	75	2	2	
JHMI350/50	-	-	50	350	64	64	75	75	2	2	
JHMI240/53	-	-	53	240	64	64	75	75	2	2	
JHMI300/53	-	-	53	300	64	64	75	75	2	2	
JHMI350/53	-	-	53	350	64	64	75	75	2	2	
JHMI400/53	-	-	53	400	64	64	75	75	2	2	
JHMI235/61	-	-	61	235	64	64	75	75	2	2	
JHMI245/61	-	-	61	240	64	64	75	75	2	2	
JHMI235/66	-	-	66	235	64	64	75	75	2	2	
JHMI350/66	-	-	66	350	64	64	75	75	2	2	
JHMI400/66	-	-	66	400	64	64	75	75	2	2	
JHMI245/70	-	-	70	245	64	64	75	75	2	2	
JHMI350/70	-	-	70	350	64	64	75	75	2	2	
JHMI400/70	-	-	70	400	64	64	75	75	2	2	
JHMI200/72	-	-	72	200	64	64	75	75	2	2	
JHMI350/72	-	-	72	350	64	64	75	75	2	2	
JHMI400/72	-	-	72	400	64	64	75	75	2	2	
JHMI235/75	-	-	75	235	64	64	75	75	2	2	
JHMI114/78	-	-	78	114	64	64	75	75	2	2	
JHMI140/78	-	-	78	140	64	64	75	75	2	2	
JHMI184/78	-	-	78	184	64	64	75	75	2	2	
JHMI235/78	-	-	78	235	64	64	75	75	2	2	
JHMI350/78	-	-	78	350	64	64	75	75	2	2	
JHMI184/91	-	-	91	184	64	64	75	75	2	2	
JHMI235/91	-	-	91	235	64	64	75	75	2	2	
JHMI245/91	-	-	91	245	64	64	75	75	2	2	
JHMI350/96	-	-	96	350	64	64	75	75	2	2	
JHMI400/96	-	-	96	400	64	64	75	75	2	2	
JHMI	-	-	-	-	-	-	-	-	-	2	
SPEC JHMSK	-	-	40-61	400-450	64	64	-	-	2.5	2	

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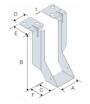
Product Capacities - Masonry

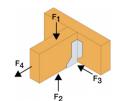
		Joist steners	CI	naracteristic Capac	city [kN]		Safe Working Loads			
References	Qty	ty Type	R _{1,k}					R _{2,SWL,Short}		
			2.8N/mm² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	R _{2,k}	2.8N/mm² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	Term
JHMI	2	3.75 x 30	10.5	12.8	20	1.8	5.2	6.4	10	1

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Product Capacities - Masonry - Enhanced Uplift

		Joist steners	С	haracteristic Capa	city [kN]			Safe Worki	ng Loads	
References				R _{1,k}				R _{1,SWL}		D
	Qty	Type	2.8N/mm² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	R _{2,k}	2.8N/mm² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	R _{2,SWL,Short} Term
JHMI114/40	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI140/40	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI184/40	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/40	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI184/47	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI235/50	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/50	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI240/53	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI300/53	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/53	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI400/53	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI235/61	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI245/61	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI235/66	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/66	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI400/66	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI245/70	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/70	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI400/70	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI200/72	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/72	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI400/72	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI235/75	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI114/78	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-

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	Joist Fasteners		C	naracteristic Capac	city [kN]			Safe Workir	ng Loads	
References				R _{1,k}				R _{1,SWL}		D
	Qty	ty Type	2.8N/mm² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	R _{2,k}	2.8N/mm² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	R _{2,SWL,Short} Term
JHMI140/78	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI184/78	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI235/78	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/78	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI184/91	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI235/91	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI245/91	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI350/96	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI400/96	6	3.75 x 30	10.5	12.8	20	3.1	5.2	6.4	10	-
JHMI	-	-	10.5	12.8	20	3.1	5.2	6.4	10	-
SPEC JHMSK	-	-	-	-	-	-	-	-	-	-

Product Capacities - Masonry & Skewed



References	Joi	st Fasteners	Safe Working Loads								
	Qty	Type		R _{1,SWL}	R _{2,} SWL,Short Term						
	uty	туро	2.8N/mm ² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	'2,SWL,Snort Ierm					
SPEC JHMSK	4	N3.75x30	5	5.1	5.1	-					

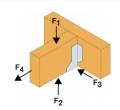
1. Maximum skew 45°

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Product Capacities - Shot Fired to Steel Girder

References		Number of Fas	Safe Working Loads		
		Header		Joist	Brown
	Qty	Туре	Qty	Туре	R _{1,SWL,Long} Term
JHMI	4	Shot Fire Pns*	2	N3.75x30	5.1

- 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.

Product Performance - Mechanically Fixed to Steel Beam

		Number of Fa	steners		Safe Working Loads [kN]	Characteristic Load [kN]	
References		Header		Joist	R. cur. L T.	R	
	Qty	Type	Qty	Type	H1, SWL, Long Term	n _{1,k}	
JHMI	2	XLQ114B1224	2	N3.75x30	10.8	19	

- 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

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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.

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