

JHMs are for supporting timber joists, beams and trussed rafters from masonry walls.

[UK-DoP-h06/0002](#)

FEATURES

Material

Pre-galvanised mild steel.

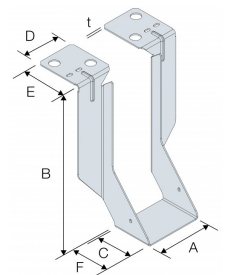
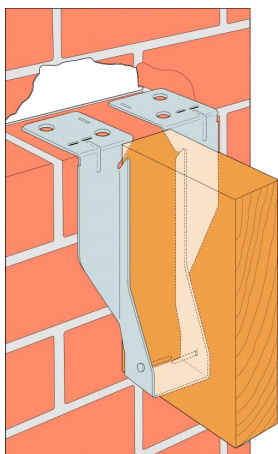
Benefits

- 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 JHM stiffen top flange and holes allow improved mortar keying.
- JHM side flange on deeper hangers is much higher than traditional style, providing greatly enhanced resistance to joist rotation.



TECHNICAL DATA

Product Dimensions



References	Joist dimensions [mm]		Hanger Dimensions [mm]							Joist holes
	Width	Height	A	B	C	D	E	F	t	Ø4
JHM100/38	35	100	38	100	64	64	75	75	2	2

References	Joist dimensions [mm]		Hanger Dimensions [mm]						Joist holes	
	Width	Height	A	B	C	D	E	F	t	Ø4
JHM125/38	35	125	38	125	64	64	75	75	2	2
JHM150/38	35	150	38	140	64	64	75	75	2	2
JHM175/38	35	175	38	165	64	64	75	75	2	2
JHM200/38	35	200	38	190	64	64	75	75	2	2
JHM225/38	35	225	38	215	64	64	75	75	2	2
JHM250/38	35	250	38	240	64	64	75	75	2	2
JHM125/44	44	125	44	125	64	64	75	75	2	2
JHM150/44	44	150	44	140	64	64	75	75	2	2
JHM175/44	44	175	44	165	64	64	75	75	2	2
JHM200/44	44	200	44	190	64	64	75	75	2	2
JHM225/44	44	225	44	215	64	64	75	75	2	2
JHM250/44	44	250	44	240	64	64	75	75	2	2
JHM100/47	47	100	47	100	64	64	75	75	2	2
JHM125/47	47	125	47	125	64	64	75	75	2	2
JHM150/47	47	150	47	140	64	64	75	75	2	2
JHM175/47	47	175	47	165	64	64	75	75	2	2
JHM200/47	47	200	47	190	64	64	75	75	2	2
JHM225/47	47	225	47	215	64	64	75	75	2	2
JHM250/47	47	250	47	240	64	64	75	75	2	2
JHM100/50	50	100	50	100	64	64	75	75	2	2
JHM125/50	50	125	50	125	64	64	75	75	2	2
JHM150/50	50	150	50	140	64	64	75	75	2	2
JHM175/50	50	175	50	165	64	64	75	75	2	2
JHM200/50	50	200	50	190	64	64	75	75	2	2
JHM225/50	50	225	50	215	64	64	75	75	2	2
JHM250/50	50	250	50	240	64	64	75	75	2	2
JHM125/63	63	125	63	125	64	64	75	75	2	2
JHM150/63	63	150	63	140	64	64	75	75	2	2
JHM175/63	63	175	63	165	64	64	75	75	2	2
JHM200/63	63	200	63	190	64	64	75	75	2	2
JHM225/63	63	225	63	215	64	64	75	75	2	2
JHM250/63	63	250	63	240	64	64	75	75	2	2
JHM100/75	2x35 or 75	100	75	100	64	64	75	75	2	2
JHM125/75	2x35 or 75	125	75	125	64	64	75	75	2	2
JHM150/75	2x35 or 75	150	75	140	64	64	75	75	2	2
JHM175/75	2x35 or 75	175	75	165	64	64	75	75	2	2
JHM200/75	2x35 or 75	200	75	190	64	64	75	75	2	2
JHM225/75	2x35 or 75	225	75	215	64	64	75	75	2	2
JHM250/75	2x35 or 75	250	75	240	64	64	75	75	2	2
JHM100/91	2x44 or 91	100	91	100	64	64	75	75	2	2
JHM125/91	2x44 or 91	125	91	125	64	64	75	75	2	2
JHM150/91	2x44 or 91	150	91	140	64	64	75	75	2	2
JHM175/91	2x44 or 91	175	91	165	64	64	75	75	2	2
JHM200/91	2x44 or 91	200	91	190	64	64	75	75	2	2
JHM225/91	2x44 or 91	225	91	215	64	64	75	75	2	2
JHM250/91	2x44 or 91	250	91	240	64	64	75	75	2	2
JHM100/100	2x50 or 100	100	100	100	64	64	75	75	2	2
JHM125/100	2x50 or 100	125	100	125	64	64	75	75	2	2
JHM150/100	2x50 or 100	150	100	140	64	64	75	75	2	2
JHM175/100	2x50 or 100	175	100	165	64	64	75	75	2	2
JHM200/100	2x50 or 100	200	100	190	64	64	75	75	2	2
JHM225/100	2x50 or 100	225	100	215	64	64	75	75	2	2
JHM250/100	2x50 or 100	250	100	240	64	64	75	75	2	2
JHM125/125	2x63	125	125	125	64	64	75	75	2	2
JHM225/125	2x63	225	125	215	64	64	75	75	2	2
JHM250/125	2x63	250	125	240	64	64	75	75	2	2
JHM300/125	2x63	300	125	290	64	64	75	75	2	2

References	Joist dimensions [mm]		Hanger Dimensions [mm]							Joist holes Ø4
	Width	Height	A	B	C	D	E	F	t	
JHM175/150	3x50 or 2x75	175	150	165	64	64	75	75	2	2
JHM225/150	3x50 or 2x75	225	150	215	64	64	75	75	2	2
JHM250/150	3x50 or 2x75	250	150	240	64	64	75	75	2	2
JHM300/150	3x50 or 2x75	300	150	290	64	64	75	75	2	2
JHM	-	-	-	-	64	64	75	75	2	2
Spec JHMSK	-	-	-	-	-	-	75	75	2.5	2

Product Performance - Masonry

References	Joist Fasteners		Characteristic Capacity [kN]			R _{2,k}	Safe Working Loads [kN]			R _{2,SWL,Short Term}
	Qty	Type	R _{1,k}				R _{1,SWL}			
			2.8N/mm ² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC		2.8N/mm ² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	
JHM	2	N3.75x30	10.5	12.8	20	1.8	5.2	6.4	10	1

Product Performance - Masonry & Skewed

References	Joist Fasteners		Safe Working Loads [kN]			
	Qty	Type	R _{1,SWL}			R _{2,SWL,Short Term}
			2.8N/mm ² Solid AAC	3.5N/mm ² Solid LAC	7.0N/mm ² Solid DAC	
Spec JHMSK	4	3.75x30	5	5.1	5.1	1

1. Maximum skew 45°

Product Performance - Shot fired to Steel Girder

References	Number of Fasteners				Safe Working Loads [kN]
	Header		Joist		
	Qty	Type	Qty	Type	R _{1,SWL,Long Term}
JHM	4	Shot fire pins	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

References	Number of Fasteners				Safe Working Loads	Characteristic Load [kN]
	Header		Joist			
	Qty	Type	Qty	Type	R _{1,SWL, Long Term}	R _{1,k}
JHM	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

INSTALLATION

Installation

Standard Masonry Installation:

- Use all specified fasteners. See "General Notes".
- Set hanger back flange tight against block wall when built to desired level, then continue with additional courses to complete wall height. Joist should be tight into back of hanger when possible. Maximum gap permitted is 6mm.
- 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 JHM joist hangers can be fixed to steel beams by means of power actuated or mechanical fasteners.
- The shot-fired pins must be installed by a qualified person in accordance with the manufacturer's installation requirements.