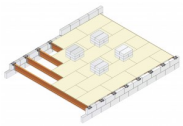
Technical data sheet

SFLHI - SAFETY FAST LITE HANGER



The SFLHI is an innovative single piece hanger designed to support timber joists from masonry walls without the need for masonry above the course of block work supporting the hanger.

CE

UK-DoP-h10/0006

FEATURES

Benefits

The SFLH has been designed to assist in meeting the air leakage requirements as part of the Code for Sustainable Homes.

Since the joist is supported by a hanger and does not penetrate the inner leaf of blockwork, the potential for air leakage is reduced and avoids the time consuming and costly mortaring and sealing with mastic around built in joist ends.
This hanger allows construction work to continue safely just 3 days after the supporting blockwork has been laid - as opposed to 28 days in the case of traditional masonry hangers.

- Avoids joist penetrating block work, minimising air leakage.
- Achieves published performance values with no masonry above the supporting course of block work.
- Enables the construction of the floor deck prior to the next lift of masonry.
- Reduces health & safety risks associated with the
- use of traditional masonry hangers with no masonry courses above them.
- Eliminates the need for propping to support the floor joists.
- Web stiffeners are not required with joists to achieve published performance values.
- Use FMS strap range with every hanger spaced up to 600mm centres to provide lateral restraint of the floor joist in accordance with EN845-1.
- CE Approved: meets the requirements of EN845-1 and tested in accordance with EN 846-8.

Materials

Pre-galvanised mild steel.

APPLICATIONS

Suitable For

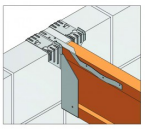
I-Joists.

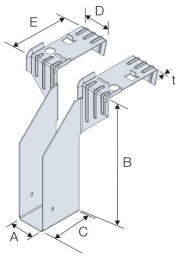
Installation

- Build masonry to the required level, ensuring any coursing bricks or blocks are at least one course below the supporting block. Leave the masonry to cure for at least three days.
- Place the Safety Fast Lite Masonry Hanger for I-Joists (SFLHI) over the inner leaf of the block work, ensuring the top flanges are fully bearing onto the top of the supporting block work and are also tight against the front face of the block work.
- Install the floor joist into the SFLH. The end of the joist should be tight against the back of the hanger. Maximum gap allowed: 6mm. Install the specified joist nails.
- Install the appropriate restraint strap (see note 1), ensuring the strap is tight against the back face of the block work hanger return and the side of the floor joist. Fix with fasteners as specified in the table below.

TECHNICAL DATA

Product Dimensions





References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	v>Hanger div> <div>Ø6< div>	<div>FMS Strap</ div> div>Ø4.2</ div>
SFLHI195/40	38	195	40	195	75	49.5	103	81	1.5	2	3
SFLHI200/40	38	200	40	200	75	49.5	103	81	1.5	2	3
SFLHI220/40	38	220	40	220	75	49.5	103	81	1.5	2	3
SFLHI225/40	38	225	40	225	75	49.5	103	81	1.5	2	3
SFLHI235/40	38	235	40	235	75	49.5	103	81	1.5	2	3
SFLHI240/40	38	240	40	240	75	49.5	103	81	1.5	2	3
SFLHI245/40	38	245	40	245	75	49.5	103	81	1.5	2	3
SFLHI300/40	38	300	40	300	75	49.5	103	81	1.5	2	3
SFLHI356/40	38	356	40	356	75	49.5	103	81	1.5	2	3
SFLHI360/40	38	360	40	360	75	49.5	103	81	1.5	2	3
SFLHI400/40	38	400	40	400	75	49.5	103	81	1.5	2	3
SFLHI195/47	45	195	47	195	75	49.5	103	81	1.5	2	3
SFLHI200/47	45	200	47	200	75	49.5	103	81	1.5	2	3
SFLHI220/47	45	220	47	220	75	49.5	103	81	1.5	2	3
SFLHI225/47	45	225	47	225	75	49.5	103	81	1.5	2	3
SFLHI235/47	45	235	47	235	75	49.5	103	81	1.5	2	3
SFLHI240/47	45	240	47	240	75	49.5	103	81	1.5	2	3
SFLHI245/47	45	245	47	245	75	49.5	103	81	1.5	2	3
SFLHI300/47	45	300	47	300	75	49.5	103	81	1.5	2	3
SFLHI350/47	45	350	47	350	75	49.5	103	81	1.5	2	3
SFLHI356/47	45	356	47	356	75	49.5	103	81	1.5	2	3
SFLHI360/47	45	360	47	360	75	49.5	103	81	1.5	2	3
SFLHI400/47	45	400	47	400	75	49.5	103	81	1.5	2	3
SFLHI195/50	47	195	50	195	75	49.5	103	81	1.5	2	3
SFLHI220/50	47	220	50	220	75	49.5	103	81	1.5	2	3
SFLHI225/50	47	225	50	225	75	49.5	103	81	1.5	2	3
SFLHI235/50	47	235	50	235	75	49.5	103	81	1.5	2	3
SFLHI240/50	47	240	50	240	75	49.5	103	81	1.5	2	3
SFLHI245/50	47	245	50	245	75	49.5	103	81	1.5	2	3
SFLHI300/50	47	300	50	300	75	49.5	103	81	1.5	2	3
SFLHI200/56	53	200	56	200	75	49.5	103	81	1.5	2	3
SFLHI220/56	53	220	56	220	75	49.5	103	81	1.5	2	3
SFLHI240/56	53	240	56	240	75	49.5	103	81	1.5	2	3
SFLHI300/56	53	300	56	300	75	49.5	103	81	1.5	2	3
SFLHI360/56	53	360	56	360	75	49.5	103	81	1.5	2	3
SFLHI400/56	53	400	56	400	75	49.5	103	81	1.5	2	3

SFLHI - SAFETY FAST LITE HANGER

References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	v>Hanger div> <div>Ø6<	<div>FMS Strap</ div> <div>Ø4.2</ div>
SFLHI200/63	60	200	63	200	75	49.5	103	81	1.5	2	3
SFLHI220/63	60	220	63	220	75	49.5	103	81	1.5	2	3
SFLHI240/63	60	240	63	240	75	49.5	103	81	1.5	2	3
SFLHI300/63	60	300	63	300	75	49.5	103	81	1.5	2	3
SFLHI350/63	60	350	63	350	75	49.5	103	81	1.5	2	3
SFLHI360/63	60	360	63	360	75	49.5	103	81	1.5	2	3
SFLHI400/63	60	400	63	400	75	49.5	103	81	1.5	2	3
SFLHI220/66	63-65	220	66	220	75	49.5	103	81	1.5	2	3
SFLHI225/66	63-65	220	66	225	75	49.5	103	81	1.5	2	3
SFLHI235/66	63-65	235	66	235	75	49.5	103	81	1.5	2	3
SFLHI245/66	63-65	245	66	245	75	49.5	103	81	1.5	2	3
SFLHI300/66	63-65	300	66	300	75	49.5	103	81	1.5	2	3
SFLHI200/72	70	200	72	200	75	49.5	103	81	1.5	2	3
SFLHI220/72	70	220	72	220	75	49.5	103	81	1.5	2	3
SFLHI225/72	70	220	72	225	75	49.5	103	81	1.5	2	3
SFLHI240/72	70	240	72	240	75	49.5	103	81	1.5	2	3
SFLHI300/72	70	300	72	300	75	49.5	103	81	1.5	2	3
SFLHI360/72	70	360	72	360	75	49.5	103	81	1.5	2	3
SFLHI400/72	70	400	72	400	75	49.5	103	81	1.5	2	3
SFLHI195/75	72	195	75	195	75	49.5	103	81	1.5	2	3
SFLHI200/75	72	200	75	200	75	49.5	103	81	1.5	2	3
SFLHI220/75	72	220	75	220	75	49.5	103	81	1.5	2	3
SFLHI225/75	72	220	75	225	75	49.5	103	81	1.5	2	3
SFLHI235/75	72	235	75	235	75	49.5	103	81	1.5	2	3
SFLHI245/75	72	245	75	245	75	49.5	103	81	1.5	2	3
SFLHI253/75	72	253	75	253	75	49.5	103	81	1.5	2	3
SFLHI300/75	72	300	75	300	75	49.5	103	81	1.5	2	3
SFLHI304/75	72	304	75	304	75	49.5	103	81	1.5	2	3
SFLHI350/75	72	350	75	350	75	49.5	103	81	1.5	2	3
SFLHI356/75	72	356	75	356	75	49.5	103	81	1.5	2	3
SFLHI373/75	72	373	75	373	75	49.5	103	81	1.5	2	3
SFLHI400/75	72	400	75	400	75	49.5	103	81	1.5	2	3
SFLHI195/78	2x38 or 75	195	75	195	75	49.5	103	81	1.5	2	3
SFLHI200/78	2x38 or 75	200	78	200	75	49.5	103	81	1.5	2	3
SFLHI220/78	2x38 or 75	220	78	220	75	49.5	103	81	1.5	2	3
SFLHI225/78	2x38 or 75	225	78	225	75	49.5	103	81	1.5	2	3
SFLHI235/78	2x38 or 75	235	78	235	75	49.5	103	81	1.5	2	3
SFLHI240/78	2x38 or 75	240	78	240	75	49.5	103	81	1.5	2	3
SFLHI245/78	2x38 or 75	245	78	245	75	49.5	103	81	1.5	2	3
SFLHI300/78	2x38 or 75	300	78	300	75	49.5	103	81	1.5	2	3
SFLHI356/78	2x38 or 75	356	78	356	75	49.5	103	81	1.5	2	3
SFLHI360/78	2x38 or 75	360	78	360	75	49.5	103	81	1.5	2	3
SFLHI400/78	2x38 or 75	400	78	400	75	49.5	103	81	1.5	2	3
SFLHI195/91	89-90	195	91	195	75	49.5	103	81	1.5	2	3
SFLHI200/91	89-90	200	91	200	75	49.5	103	81	1.5	2	3
SFLHI220/91	89-90	220	91	220	75	49.5	103	81	1.5	2	3
SFLHI225/91	89-90	225	91	225	75	49.5	103	81	1.5	2	3
SFLHI235/91	89-90	235	91	235	75	49.5	103	81	1.5	2	3
SFLHI240/91	89-90	240	91	240	75	49.5	103	81	1.5	2	3
SFLHI245/91	89-90	245	91	245	75	49.5	103	81	1.5	2	3
SFLHI300/91	89-90	300	91	300	75	49.5	103	81	1.5	2	3
SFLHI350/91	89-90	350	91	350	75	49.5	103	81	1.5	2	3
SFLHI356/91	89-90	356	91	356	75	49.5	103	81	1.5	2	3
SFLHI360/91	89-90	360	91	360	75	49.5	103	81	1.5	2	3

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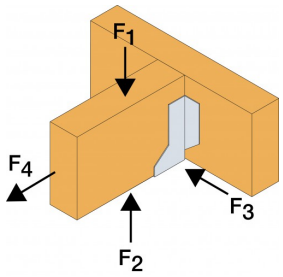
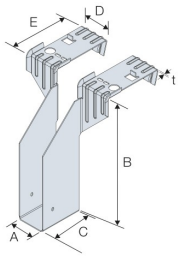
References	Joist Size [mm]		Product Dimensions [mm]							Joist holes	
	Width	Height	A	B	C	D	E	F	t	Hanger Ø6	FMS Strap Ø4.2
SFLHI400/91	89-90	400	91	400	75	49.5	103	81	1.5	2	3
SFLHI195/96	2x47	1	96	195	75	49.5	103	81	1.5	2	3
SFLHI220/96	2x47	220	96	220	75	49.5	103	81	1.5	2	3
SFLHI235/96	2x47	235	96	235	75	49.5	103	81	1.5	2	3
SFLHI240/96	2x47	240	96	240	75	49.5	103	81	1.5	2	3
SFLHI245/96	2x47	245	96	245	75	49.5	103	81	1.5	2	3
SFLHI300/96	2x47	300	96	300	75	49.5	103	81	1.5	2	3
SFLHI195/99	96-97	195	99	195	75	49.5	103	81	1.5	2	3
SFLHI200/99	96-97	200	99	200	75	49.5	103	81	1.5	2	3
SFLHI220/99	96-97	220	99	220	75	49.5	103	81	1.5	2	3
SFLHI225/99	96-97	225	99	225	75	49.5	103	81	1.5	2	3
SFLHI235/99	96-97	235	99	235	75	49.5	103	81	1.5	2	3
SFLHI240/99	96-97	240	99	240	75	49.5	103	81	1.5	2	3
SFLHI245/99	96-97	245	99	245	75	49.5	103	81	1.5	2	3
SFLHI253/99	96-97	253	99	253	75	49.5	103	81	1.5	2	3
SFLHI300/99	96-97	300	99	300	75	49.5	103	81	1.5	2	3
SFLHI304/99	96-97	304	99	304	75	49.5	103	81	1.5	2	3
SFLHI350/99	96-97	350	99	350	75	49.5	103	81	1.5	2	3
SFLHI356/99	96-97	356	99	356	75	49.5	103	81	1.5	2	3
SFLHI360/99	96-97	360	99	360	75	49.5	103	81	1.5	2	3
SFLHI373/99	96-97	373	99	373	75	49.5	103	81	1.5	2	3
SFLHI400/99	96-97	400	99	400	75	49.5	103	81	1.5	2	3

Product characteristic capacities





References	Number of Fasteners				Characteristic Capacities [kN]			Safe Working Loads [kN]		
	Joist				$R_{1,k}$			$R_{1,SWL}$		
	Hanger		FMS Strap		2.8 N/mm^2; Solid AAC	3.5 N/mm^2 Solid LAC	7 N/mm^2 Solid DAC	2.8N/mm^2 Solid AAC	3.5N/mm^2 Solid LAC	7N/mm^2 Solid DAC
	Qty	Type	Qty	Type						
SFLHI	2	N3.75 x 30	3	N3.75 x 30	6.8	7.9	7.9	3.9	4.5	4.5

TECHNICAL NOTES

General Installation Notes

- The floor decking may be stored on the joists provided the load is uniformly distributed between the several joists and does not exceed the hanger or joist capacities. Refer to joist manufacturer or supplier for joist capacity and maximum construction loads.
- The floor decking must be securely attached to each joist before additional loads can be placed on the system.
- Floor decking and block work is to be cut where necessary to fit around the upstand stiffeners.
- Pallets of blocks or other construction materials should be placed onto the scaffolding and NOT directly onto the floor. The materials can then be evenly distributed around the floor manually, ensuring hanger or joist capacities are not exceeded.

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