

SFLHI - Safety Fast Lite Masonry Hanger for I-Joists

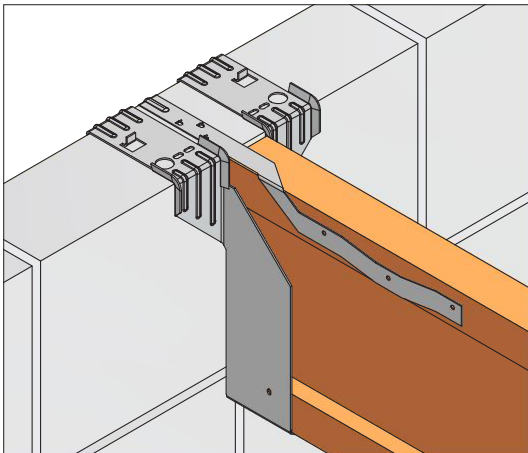


The SFLHI is an innovative single piece hanger designed to support timber joists from masonry walls without the need for masonry above the course of blockwork supporting the hanger.

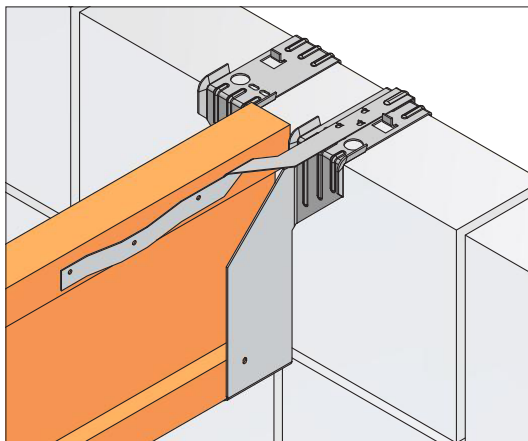
The SFLHI has been designed to assist in meeting the air leakage requirements as part of the Code for Sustainable Homes. Since the joist is supported by a hanger and does not penetrate the inner leaf of blockwork, the potential for air leakage is reduced and avoids the time consuming and costly mortaring 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.

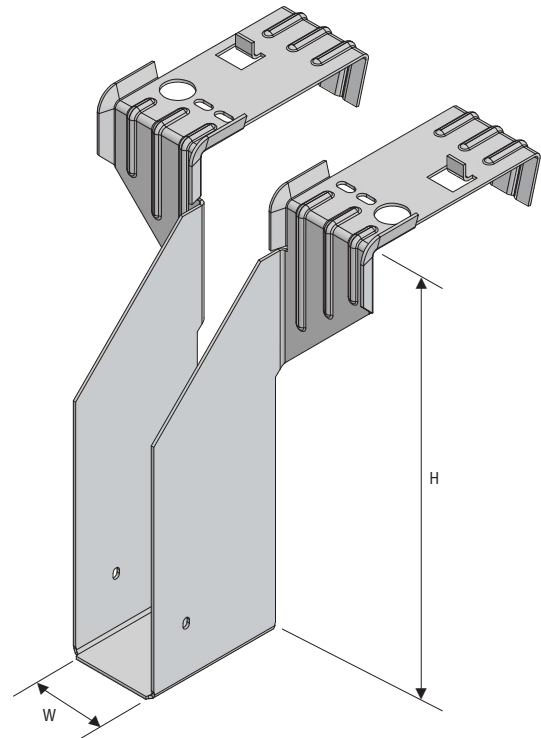
The SFLHI is CE marked, meeting the requirements EN 845-1.



SFLHI joist hanger used in conjunction with FMS strap.



SFLHI joist hanger used in conjunction with FMSC strap.

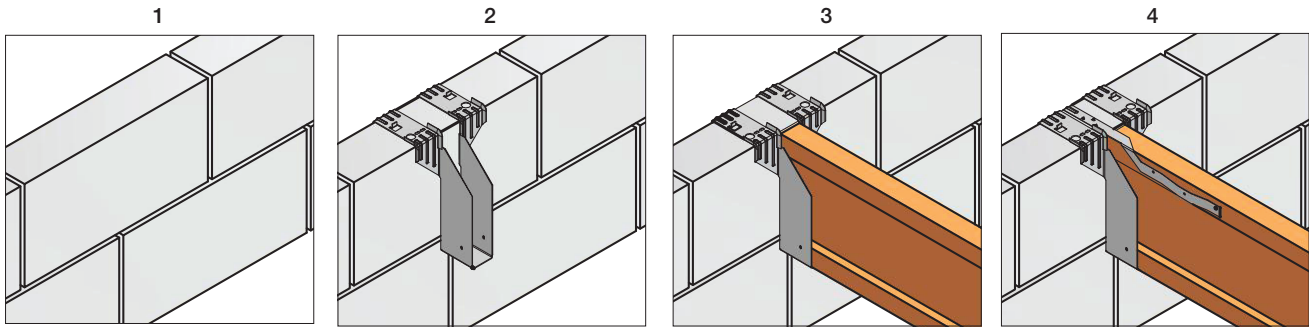


Patent No. EP2064395

Features and Benefits

- Avoids joist penetrating blockwork, minimising air leakage.
- Achieves published performance values with no masonry above the supporting course of blockwork.
- 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 joist.
- Web stiffeners are not required with I-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.
- Material: Z600 zinc coated steel in accordance with EN10346:2009

Installation Guide (use all specified fasteners)



Step 1: Build masonry to the required level, ensuring any coursing bricks or blocks are at least one course below the supporting block.

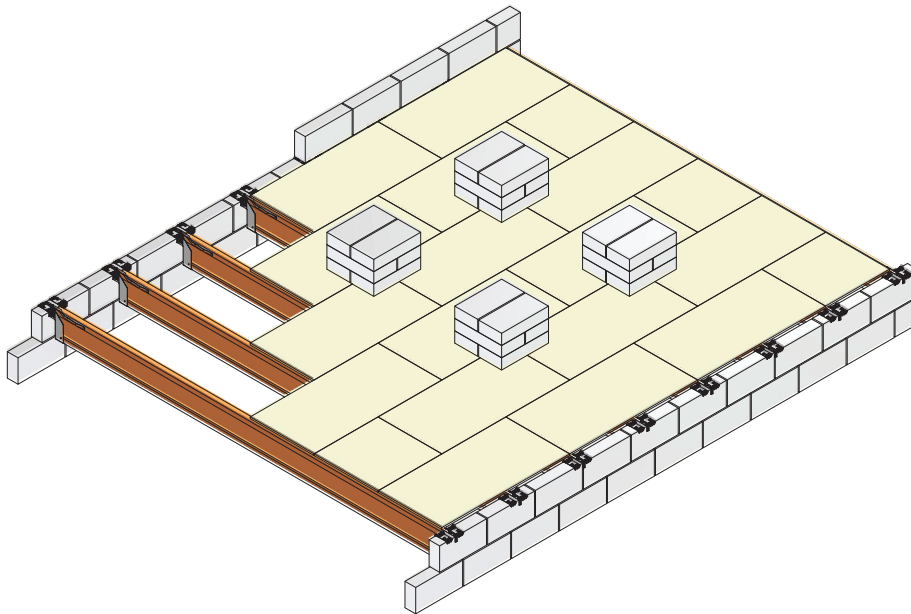
Leave the masonry to cure for at least three days.

Step 2: Place the Safety Fast Lite Masonry Hanger for I-Joists (SFLHI) over the inner leaf of the blockwork, ensuring the top flanges are fully bearing onto the top of the supporting blockwork and are also tight against the front face of the blockwork.

Step 3: Install the floor joist into the SFLHI, ensuring the gap between the end of the joist and the blockwork is a maximum of 6mm.

Install the specified joist nails (see table below).

Step 4: Install the appropriate restraint strap (see note 1 at bottom of page), ensuring the strap is tight against the back face of the blockwork/hanger return and the side of the floor joist. Fix with fasteners as specified in the table below.



For example, total number of blocks per pair of joists (4 hangers) @ 600 c/c:

- 2.8N/mm² AAC = 24
- 3.5N/mm² AAC = 20
- 7.0N/mm² DAC = 16

About working on the floor prior to the next lift of masonry:

1. The floor decking may be stored on the joists provided the load is uniformly distributed among several joists and does not exceed the hanger or joist capacities. Refer to joist manufacturer or supplier for joist capacity and maximum construction loads.
2. The floor decking must be securely attached to each joist before additional loads can be placed on the system.
3. Pallets of blocks or other construction material should be placed onto the scaffolding and not directly onto the floor. The materials can then be evenly distributed around the floor manually, ensuring the hanger or joist capacities are not exceeded.

SFLHI - Safety Fast Lite Masonry Hanger for I-Joist Performance Data

Size Range		Joist Fastener Qty 3.75mm x 30mm Square Twist Nail		Safe Working Loads (kN)			Characteristic Capacity (kN)		
				Block Strength			Block Strength		
Height (mm)	Width (mm)	Hanger	FMS ⁽¹⁾ Strap	2.8N/mm ² Solid AAC	3.5N/mm ² Solid AAC	7.0N/mm ² Solid DAC	2.8N/mm ² Solid AAC	3.5N/mm ² Solid AAC	7.0N/mm ² Solid DAC
100 - 400	35 - 97	2	3	4.5	4.5	4.5	7.9	7.9	7.9

Please note:

1. Appropriate variant from FMS strap range, depending on connection detail - refer to www.strongtie.co.uk/fms.
2. Performance values are with **NO** masonry above supporting blockwork.