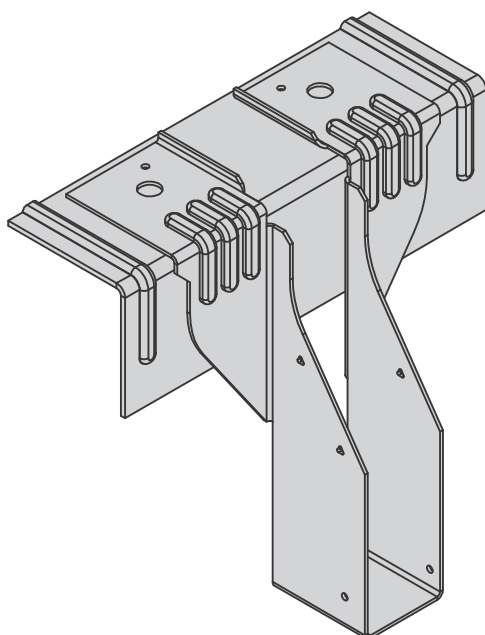


Rapid Build Masonry Joist Hanger



The **RB-JHI** hanger is a timber to masonry hanger range designed for use with **I-Joists, open web & solid timber joists/trusses**. The **RB-JHI** combines the standard **JHI** hanger with a reinforced top plate to provide a superior level of performance.

Features & Benefits

- The addition of the reinforced top plate keeps the hanger in position eliminating the need for masonry above (unless required for further additional performance)
- Supporting block work only needs to cure for 3 days instead of the standard 28 days for traditional masonry hangers, speeding up the build process
- A major contribution to compliance with air leakage - Part L1 Building Regulations

Material Specification

- Galvanised mild steel - Z600

Fixings

Fixings required into incoming member only. No fixings required into masonry.

Code	Description	Box Qty
547389	3.4 x 35mm Square Twist Nails - LOOSE	500
141185	3.4 x 35mm Square Twist Nails - COLLATED*	2,500

*For use with Paslode PPN35CI

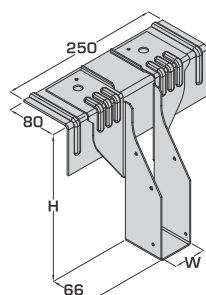
Available Sizes - RB-JHI/RB-JHIR⁽¹⁾

Hanger Width (W) (mm)	Hanger Depth (H) (mm)							
	150	195	225	240	250	300	350	400
39	RB-JHI-39-150	RB-JHI-39-195	RB-JHI-39-225 ⁽¹⁾	RB-JHI-39-240	RB-JHI-39-250	RB-JHI-39-300 ⁽¹⁾	RB-JHI-39-350	RB-JHI-39-400
46	-	-	RB-JHI-46-225 ⁽¹⁾	RB-JHI-46-240	-	RB-JHI-46-300	-	-
50	RB-JHI-50-150	RB-JHI-50-195	RB-JHI-50-225 ⁽¹⁾	RB-JHI-50-240	RB-JHI-50-250	RB-JHI-50-300	-	-
55	-	-	RB-JHI-55-225	-	-	RB-JHI-55-300	-	-
61	-	-	RB-JHI-61-225	RB-JHI-61-240	-	RB-JHI-61-300	-	-
65	-	-	RB-JHI-65-225	RB-JHI-65-240	-	RB-JHI-65-300	-	-
72	-	-	RB-JHI-72-225	RB-JHI-72-240	-	RB-JHI-72-300	-	-
75	RB-JHI-75-150	RB-JHI-75-195	RB-JHI-75-225 ⁽¹⁾	RB-JHI-75-240 ⁽¹⁾	RB-JHI-75-250 ⁽¹⁾	RB-JHI-75-300 ⁽¹⁾	RB-JHI-75-350	RB-JHI-75-400
92	-	-	RB-JHI-92-225 ⁽¹⁾	-	-	RB-JHI-92-300	-	-
100	RB-JHI-100-150	RB-JHI-100-195	RB-JHI-100-225 ⁽¹⁾	RB-JHI-100-240 ⁽¹⁾	RB-JHI-100-250 ⁽¹⁾	RB-JHI-100-300 ⁽¹⁾	RB-JHI-100-350	RB-JHI-100-400
110	-	-	RB-JHI-110-225	-	-	-	-	-
122	-	-	RB-JHI-122-225	RB-JHI-122-240	-	RB-JHI-122-300	-	-
125	-	-	RB-JHI-125-225 ⁽¹⁾	RB-JHI-125-240	RB-JHI-125-250 ⁽¹⁾	RB-JHI-125-300 ⁽¹⁾	RB-JHI-125-350	RB-JHI-125-400
130	-	-	RB-JHI-130-225	RB-JHI-130-240	-	RB-JHI-130-300	-	-
138	-	-	RB-JHI-138-225	RB-JHI-138-240	-	-	-	-
144	-	-	RB-JHI-144-225	-	-	RB-JHI-144-300	-	-
150	-	RB-JHI-150-195	RB-JHI-150-225 ⁽¹⁾	RB-JHI-150-240	RB-JHI-150-250 ⁽¹⁾	RB-JHI-150-300 ⁽¹⁾	RB-JHI-150-350	RB-JHI-150-400
198	-	-	RB-JHI-198-225 ⁽¹⁾	RB-JHI-198-240	RB-JHI-198-250	RB-JHI-198-300 ⁽¹⁾	-	-
225	-	-	RB-JHI-225-225	RB-JHI-225-240	RB-JHI-225-250	RB-JHI-225-300	-	-
250	-	-	RB-JHI-250-225 ⁽¹⁾	-	RB-JHI-250-250	RB-JHI-250-300 ⁽¹⁾	-	-

(1) Sizes available as return (to suit 100mm block work only)

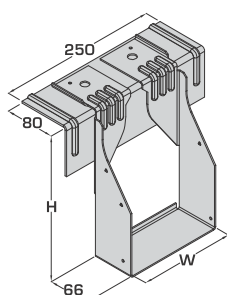
Dimensions (mm)

RB-JHI - 39-138MM WIDE



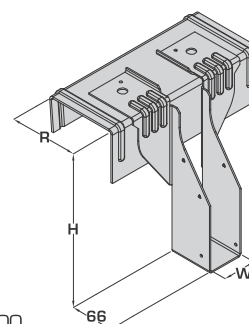
RB-JHI-W-H
Example: RB-JHI-50-225

RB-JHI - 144-198MM WIDE



RB-JHI-W-H
Example: RB-JHI-150-225

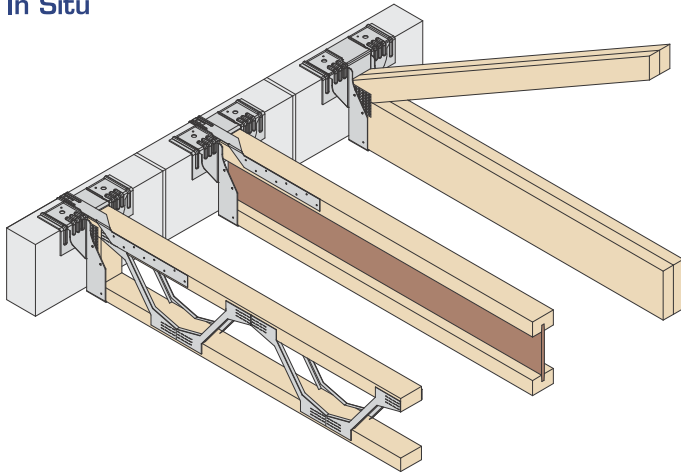
RB-JHIR - RETURN



RB-JHIR-W-H-R
Example: RB-JHIR-50-225-100
Only sizes marked (1) available
(Returns available to suit 100mm block work only)

Rapid Build Masonry Joist Hanger

In Situ



- Suitable for use with Open Web Joists, I-Joists and trusses
- Non return hangers are suitable with no masonry above. Return only required for increased load capacity



- **No masonry** is required above the hanger (unless stated for increased load capacity).
- The masonry supporting the hanger must be cured for **3 days** prior to loading the floor.
- The RB-JHI/RB-JHIR does not provide restraint, therefore restraint straps may be required (see pages 131 - 132)

Load Data

Hanger Type	Masonry Above (Min 675mm)	Fixings (3.4 x 35mm) Incoming	Characteristic Capacity (kN)			
			Uplift	Masonry Crushing Strength		
				2.8N/mm ²	3.5N/mm ²	7.0N/mm ²
RB-JHI	No	2	n/a	12.56	15.71	21.26
RB-JHIR	No	2	n/a	16.00	20.01	28.31
RB-JHI/RB-JHIR	Yes	2	2.00	19.83	24.79	39.60
		5 ⁽²⁾	4.50			

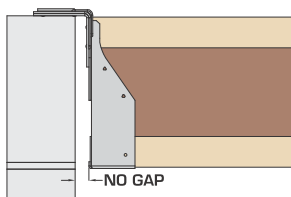
Enhanced Uplift⁽²⁾

- Fixings into the incoming joist/truss are required to resist uplift
- Increased uplift figures can be achieved by nailing the additional triangular nail holes into the incoming member
- Web stiffeners required for I-Joists, 2No end blocks required for Open Web Joists & minimum bottom chord depth/vertical required for trusses
- Requires minimum **full storey** of masonry above to achieve values

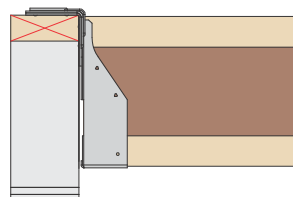
Hanger Depth (mm)	Min Timber Depth (mm)
150	84
175 - 195	122
225 - 240	172
250	195
300	235
350	300
400	350



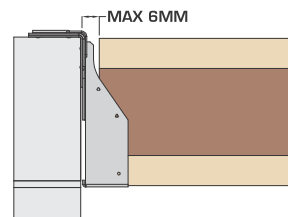
Incorrect Installation



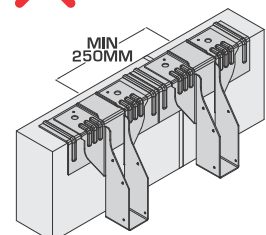
Do not install the hanger with a gap between the hanger and the face of the block work.



Do not install the hanger onto a timber wall plate.



Do not install the hanger with a gap exceeding 6mm between the joist/truss and the hanger.



Do not cut/modify the top flanges. These are critical to the performance.