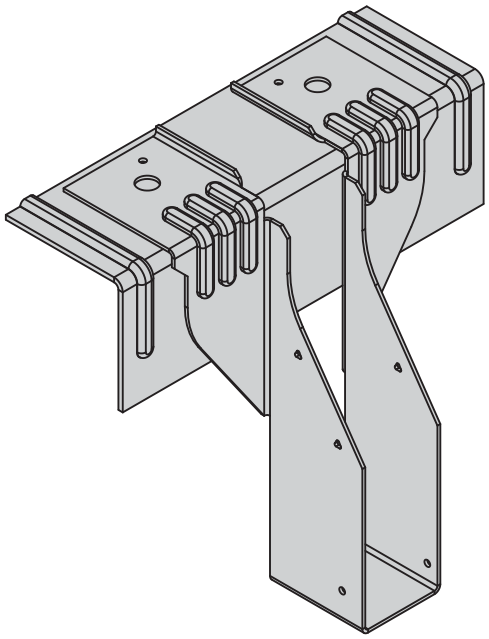
RB–JHI

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 futher 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

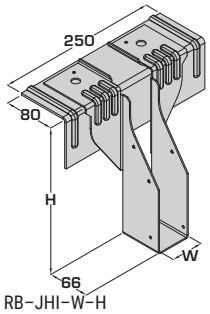
Available Sizes – RB–JHI/RB–JHIR(1)

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	–
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	–	–	–	–	–
61	–	–	RB–JHI–61–225	–	–	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	RB–JHI–75–250	RB–JHI–75–300	RB–JHI–75–350	RB–JHI–75–400
92	–	–	RB–JHI–92–225	–	–	RB–JHI–92–300	–	–
100	RB–JHI–100–150	RB–JHI–100–195	RB–JHI–100–225(1)	RB–JHI–100–240	RB–JHI–100–250	RB–JHI–100–300	–	RB–JHI–100–400
110	–	–	RB–JHI–110–225	–	–	RB–JHI–110–300	–	–
122	–	–	RB–JHI–122–225	RB–JHI–122–240	–	RB–JHI–122–300	–	–
125	–	–	RB–JHI–125–225	RB–JHI–125–240	RB–JHI–125–250	RB–JHI–125–300	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	RB–JHI–150–300	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	–	–
225	–	–	RB–JHI–225–225	–	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)

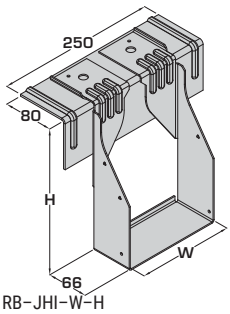
Dimensions (mm)

RB–JHI – 39–138MM WIDE



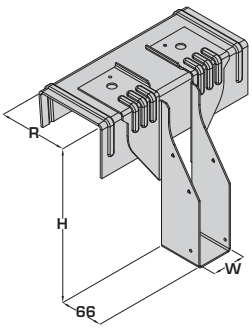
RB–JHI–W–H
Example: RB–JHI–50–225

RB–JHI – 144–198MM WIDE



RB–JHI–W–H
Example: RB–JHI–150–225

RB–JHIR – RETURN

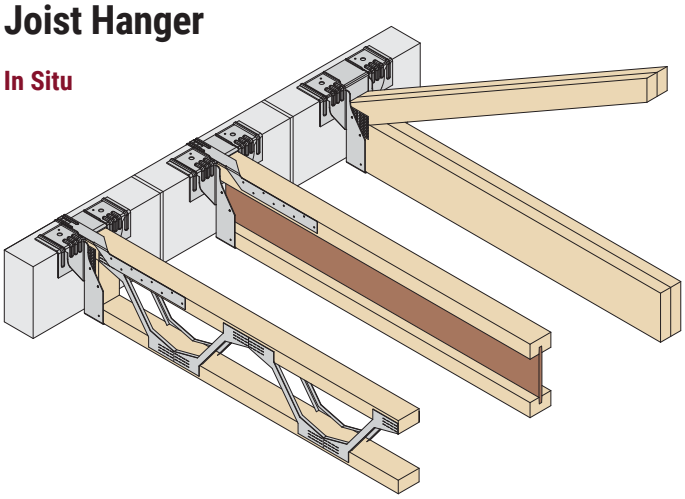


RB–JHIR–W–H–R
Example: RB–JHIR–50–225–100
Only sizes marked (1) available
(Returns available to suit 100mm block work only)

RB–JHI

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 128 – 129)

Load Data

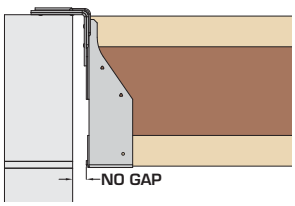
Hanger Type	Masonry Above (Min 675mm)	Fixings (3.4 x 35mm)	Characteristic Capacity (kN)			
			Uplift	Masonry Crushing Strength		
		Incoming		2.8N/mm²	3.5N/mm²	7.0N/mm²
RB–JHI	No	2	n/a	12.56	15.71	21.26
RB–JHIR	No	2	n/a	16.00	20.01	28.31
RB–JHI/RB–JHIR	Yes	2	2.00	19.83	24.79	39.60
		5(2)	4.50			

Enhanced Uplift(2)

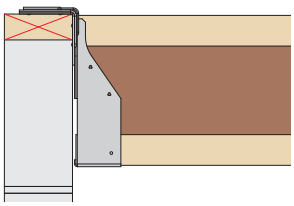
- Fixings into the incoming joist/truss are required to resist uplift
- Increased uplift figures can be achieved by nailing the additional triangular nail holes into incoming member
- Web stiffeners required for I–Joists, 2No end blocks required for Open Web Joists & minimum bottom chord depth/vertical 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

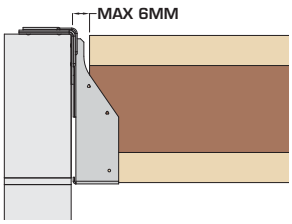
Incorrect Installation



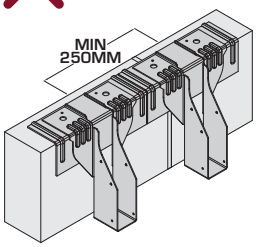
Do not install the hanger with a gap between the hanger and the face of the block work.



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.