

IHS — I-Joist Hole Support

Disclaimer:

Before installing this product prior approval from an engineer or I-Joist manufacturer shall be required.

Material

Pre-galvanised mild steel

Size: Suits 240mm and 300mm I-joist.

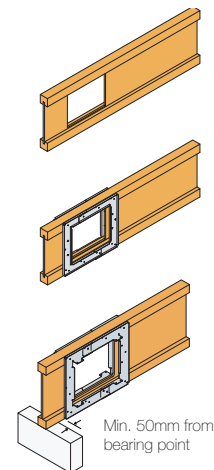
Features & Benefits

- The IHS is designed to strengthen I-joists when holes are required to be cut in locations not normally permitted.
- Allows holes to be cut 50mm from bearing point, which allows services to run close to external walls.
- Variable hole sizes from 150mm to a maximum width of 250mm
- Supplied as 2 sets of 2 interlocking plates (1 set per side of I-joist) which always allows the IHS to be fitted, even when services are already in-situ.
- Helps to eliminate expensive and time consuming joist trimming for pipe runs.
- Can be used on single and double ply I-joists.



Installation

- Each IHS consists of 2 sets of 2 interlocking plates with one set required for each side of the I-joist.
- The outer edge of the holes cut into the web of the I-joist can be a minimum of 50mm from the inner face of the blockwork.
- Holes can be cut into the web of the I-joist before or after installation of the IHS.
- Holes must fit within the internal aperture of the IHS.
- Place the IHS onto the I-joist so that the top and bottom sliding flanges are aligned vertically central onto the top and bottom chords of the I-joist.
- Open or close the IHS to the required width, ensuring that the two sections overlap by at least one row of nails (minimum overlap of 45mm).
- Install 3.75x38mm nails through all round holes into the top and bottom chords of the I-joist.
- Repeat the above steps to install plates on the other side of the I-joist, completing the installation.



Technical Data

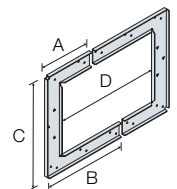
Model No.	Joist Size (mm)	Hanger Dimensions (mm)						Connector Holes		Fasteners				3.75x38mm nails			
		A	B	C	D ₁	D ₂	t	Ø 4	Triangular	150mm Opening		250mm Opening		Bracket Opening		Type	
IHS240	240-245	150	250	236	150	250	1.5	10	3	3.75x38mm	24	32	3.75x38mm		24 qty	32 qty	3.75x38mm
IHS300	300-302	150	250	296	150	250	1.5	10	3	3.75x38mm	24	32	3.75x38mm				

1. Use Simpson Strong Tie 3.75x38mm nails (N10DHHDG-R & N10D5HDG-R)
2. Number of fasteners is per hole in joist



Performance Values

I-Joist Manufacturer	Joist Width (mm)	Joist Height (mm)	Model No.	Max allowable hole size with IHS (mm)	Maximum shear capacity at location of IHS (kN)	
					Characteristic Capacity	
					Single Ply	Double Ply
Dindas DJI	47	245	IHS240	150 x 250	7.25	9.66
		300	IHS300	200 x 250	8.32	11.09
	63	245	IHS240	150 x 250	7.91	10.55
		300	IHS300	200 x 250	8.95	11.93
	72	245	IHS240	150 x 250	8.28	11.04
		300	IHS300	200 x 250	9.29	12.39
97	245	IHS240	150 x 250	9.24	12.32	
	300	IHS300	200 x 250	10.24	13.66	
meyJOIST	45	240	IHS240	150 x 250	6.38	8.93
		300	IHS300	200 x 250	7.68	10.75
	63	240	IHS240	150 x 250	6.32	8.85
		300	IHS300	200 x 250	7.59	10.62
	90	240	IHS240	150 x 250	6.26	8.76
		300	IHS300	200 x 250	7.49	10.48



Note: To ensure IHS is structurally adequate to strengthen I-joist with holes check with your I-joist supplier.

Simpson Strong-Tie® Australia Pty Ltd
Call **1300 STRONGTIE (1300 787664)**
www.strongtie.com.au

Simpson Strong-Tie® (New Zealand) Ltd
Call **09 477 4440**
www.strongtie.co.nz

This flyer reflects information available as of August 24th, 2022 and may be updated periodically.
Simpson Strong-Tie Limited Warranty: For the Limited Warranty that applies to Simpson Strong-Tie products, please consult www.strongtie.co.nz/warranty. To obtain a copy of the Limited Warranty, contact us at info.nz@strongtie.com, or at the number provided here. The Limited Warranty contains important disclaimers, limitations and exclusions, and applies only if the products have been properly specified, installed, maintained, and used in accordance with the design limits and the structural, technical, and environmental specifications in the Simpson Strong-Tie Documentation. All future purchases of Simpson Strong-Tie products are subject to the terms of the Limited Warranty in effect as of the purchase date.