

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, 300mm and 350mm I-joist.

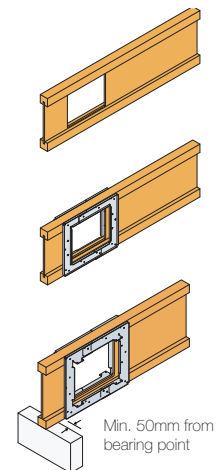
Features & Benefits

- 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 350mm
- 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

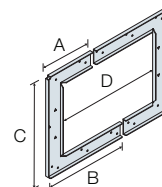
- Each IHS consists of 2 sets of 2 interlocking plates with one set required for each side of the I-joist.
- The outer edge of the holes cut into the web of the I-joist can be a minimum of 50mm from the inner face of the blockwork.
- Holes can be cut into the web of the I-joist before or after installation 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	150mm	250mm	3.75x38mm
IHS300	300-302	150	250	296	150	250	1.5	10	3	3.75x38mm	24	32	3.75x38mm	24 qty	32 qty	3.75x38mm
IHS350	350-360	150	250	346	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



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

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Performance Values

I-Joist Manufacturer	Joist Width (mm)	Joist Height (mm)	IHS 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
		360	IHS350	250 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
		360	IHS350	250 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
		360	IHS350	250 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
		360	IHS350	250 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
		360	IHS350	250 x 250	9.26	12.96
	90	240	IHS240	150 x 250	6.26	8.76
		300	IHS300	200 x 250	7.49	10.48
		360	IHS350	250 x 250	9.91	13.87

ITI Data

I-Joist Manufacturer	Joist Width (mm)	Joist Height (mm)	I-Joist Model No.	Max allowable hole size with IHS (mm)	Maximum Characteristic shear Capacity at location of IHS (kN)	
					Single I-joist	Double I-joist
ITI Australia	45	240	SJI-36 240x45	150 x 250	7.0	8.2
		300	SJI-36 300x45	200 x 250	8.4	9.9
		360	SJI-36 360x45	250 x 250	8.4	9.9
	70	240	SJI-36 240x70	150 x 250	7.7	9.0
		300	SJI-36 300x70	200 x 250	9.3	10.8
		350	SJI-36 360x70	250 x 250	9.3	10.8
	96	240	SJI-36 240x96	150 x 250	7.7	9.0
		300	SJI-36 300x96	200 x 250	9.3	10.8
		360	SJI-36 360x45	250 x 250	9.3	10.8
ITI Australia	47	240	H-Series 240x47	150 x 250	8.2	9.9
		300	H-Series 300x47	200 x 250	10.2	12.3
		360	H-Series 360x47	250 x 250	10.2	12.3
	70	240	HI-Series 240x70	150 x 250	8.2	9.9
		300	HI-Series 300x70	200 x 250	10.2	12.3
		360	HI-Series 360x70	250 x 250	10.2	12.3
	97	240	HB-Series 240x97	150 x 250	8.2	9.9
		300	HB-Series 300x97	200 x 250	10.2	12.3
		360	HB-Series 360x97	250 x 250	10.2	12.3