

ITB/HITB I-Joist Hanger

THE ITB IS AN INNOVATIVE NEW HANGER THAT ELIMINATES THE REQUIREMENT FOR BACKER BLOCKS WHEN SUPPORTED FROM AN I-JOIST HEADER.

The bottom flange location tabs and an open top flange provide enhanced capacity and improved ease of installation.

- Eliminates the need for backer blocks with an I-joist to I-joist connection.
- Bottom flange location tabs quickly set the hanger onto the I-joist header.
- Open top flange improves ease-of-installation.
- Only one size of nail required - 3.75mm x 30mm Square Twist.
- Optional nail holes for additional download and uplift capacity.

MATERIAL:

ITB: 1.2mm pre-galvanised mild steel.

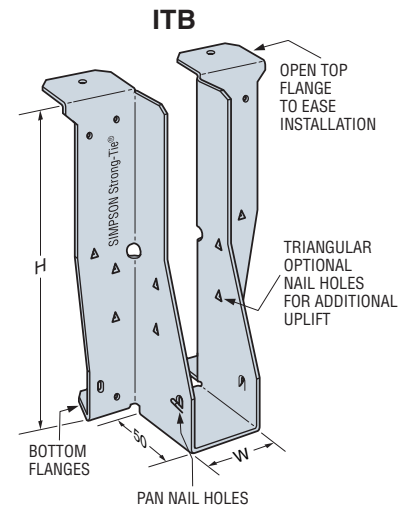
HITB: 2.0mm pre-galvanised mild steel.

ITB INSTALLATION:

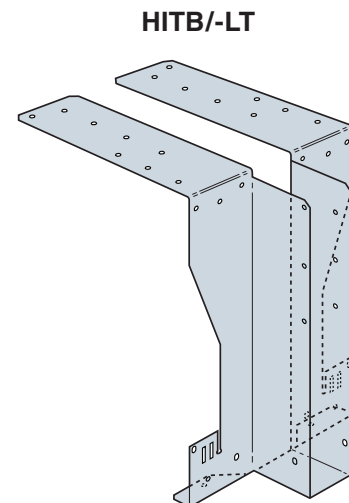
- **Standard Installation** (I-joist headers without backer blocks), position the ITB hanger onto the face of supporting I-joist, ensuring the bottom flanges are tight up against the underside of the bottom chord and fill all round and obround holes with the specified nails, starting with those at the bottom and ensuring the hanger sides are vertical before fixing the top nails.
- Sit the carried joist into the ITB Hanger and install the specified nails through the angled pan nail holes into the joist.
- **Enhanced Installation** (I-joist headers with backer blocks installed) it is necessary to fit backer blocks into the web of the I-joist header, ensuring they are tight to the underside of the top chord. All round, obround and triangular holes are then to be filled with the specified nails, starting with those at the bottom and ensuring the hanger sides are vertical before fixing the top nails..
- **Enhanced Uplift** (I-joists or solid joists with additional joist nails) fit web stiffeners onto the carried joist and fill all joist triangular nail holes with specified nails.
- When required, backer blocks and web stiffeners are to be installed in accordance with manufacturer's recommendations.

HITB INSTALLATION:

- Designed for use with multiple headers.
- Use 3.75mm x 30mm square twist nails during this installation.
- Ensure the supporting I-joists are connected together in accordance with the manufacturers recommended connection methods, i.e. MJC Connectors, or filler blocks.
- Position the HITB hanger onto the face of the supporting I-joists, ensuring the bottom flanges are tight up against the underside of the bottom chord.
- Fill all face round and obround holes with nails. Install nails into the holes within the bottom flanges.
- Flatten the hanger's open flanges to the top chords of the supporting I-joist and install a minimum of 4 nails per flange, 2 to the front and 2 to the rear of the joist.
- Bend the bottom chord tabs over the top face of the bottom chord and install nails through the obround holes into the top face of the bottom chord.
- Sit the carried joist into the HITB hanger and install the nails through the round and obround holes into the joist.
- Web stiffeners required with HITB and HITB-LT.



Patent: GB2400384



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ITB Hangers for Timber I-Joists

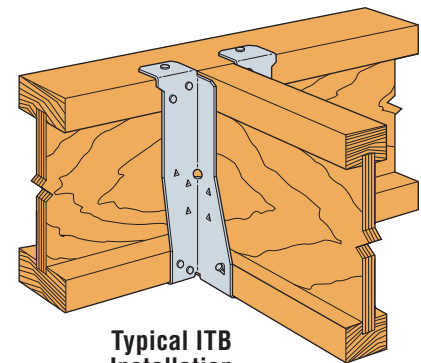
Joist Width (mm)	Model No.	Dimension (mm)	
		Height (H)	Width (W)
38	ITB195/40	195	40
	ITB200/40	200	40
	ITB220/40	220	40
	ITB240/40	240	40
	ITB300/40	300	40
45	ITB145/47	145	47
	ITB195/47	195	47
	ITB200/47	200	47
	ITB220/47	220	47
	ITB240/47	240	47
	ITB245/47	245	47
	ITB300/47	300	47
47	ITB195/50	195	50
	ITB220/50	220	50
	ITB235/50	235	50
	ITB240/50	240	50
	ITB245/50	245	50
51	ITB300/50	300	50
	ITB240/53	240	53
	ITB300/53	300	53
58-60	ITB195/61	195	61
	ITB200/61	200	61
	ITB220/61	220	61
	ITB240/61	240	61
	ITB245/61	245	61
63	ITB300/61	300	61
	ITB195/66	195	66
	ITB220/66	220	66
	ITB225/66	225	66
	ITB235/66	235	66
	ITB240/66	240	66
70	ITB245/66	245	66
	ITB300/66	300	66
	ITB220/72	220	72
	ITB240/72	240	72
	ITB300/72	300	72
72	ITB195/75	195	75
	ITB220/75	220	75
	ITB245/75	245	75
	ITB300/75	300	75
2ply 38	ITB195/78	195	78
	ITB200/78	200	78
	ITB220/78	220	78
	ITB240/78	240	78
	ITB300/78	300	78
2ply 45 or 89-90	ITB195/91	195	91
	ITB200/91	200	91
	ITB220/91	220	91
	ITB225/91	225	91
	ITB240/91	240	91
	ITB245/91	245	91
2ply 47	ITB300/91	300	91
	ITB195/96	195	96
	ITB220/96	220	96
	ITB235/96	235	96
	ITB240/96	240	96
97	ITB245/96	245	96
	ITB300/96	300	96
	ITB195/100	195	100
	ITB220/100	220	100
	ITB245/100	245	100
	ITB300/100	300	100

HITB Hangers Timber I-Joists With Solid Sawn Flanges

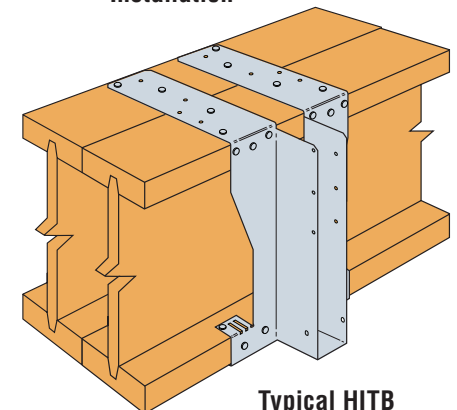
Joist Width (mm)	Model No.	Dimension (mm)	
		Height (H)	Width (W)
45	HITB-LT195/47	195	47
	HITB-LT200/47	200	47
	HITB-LT220/47	220	47
	HITB-LT235/47	235	47
	HITB-LT240/47	240	47
47	HITB-LT245/47	245	47
	HITB-LT300/47	300	47
	HITB-LT195/50	195	50
	HITB-LT220/50	220	50
60	HITB-LT235/50	235	50
	HITB-LT240/50	240	50
	HITB-LT245/50	245	50
	HITB-LT300/50	300	50
63	HITB-LT195/61	195	61
	HITB-LT200/61	200	61
	HITB-LT220/61	220	61
	HITB-LT235/61	235	61
	HITB-LT240/61	240	61
70	HITB-LT245/61	245	61
	HITB-LT300/61	300	61
	HITB-LT195/66	195	66
	HITB-LT220/66	220	66
72	HITB-LT235/66	235	66
	HITB-LT245/66	245	66
	HITB-LT300/66	300	66
77	HITB-LT220/75	220	75
	HITB-LT240/75	240	75
	HITB-LT300/75	300	75
89	HITB-LT195/91	195	91
	HITB-LT200/91	200	91
	HITB-LT220/91	220	91
	HITB-LT235/91	235	91
	HITB-LT240/91	240	91
97	HITB-LT245/91	245	91
	HITB-LT300/91	300	91
	HITB-LT195/96	195	96
	HITB-LT220/96	220	96
	HITB-LT235/96	235	96
97	HITB-LT240/96	240	96
	HITB-LT245/96	245	96
	HITB-LT300/96	300	96
	HITB-LT195/100	195	100
	HITB-LT220/100	220	100
	HITB-LT235/100	235	100
	HITB-LT245/100	245	100
	HITB-LT300/100	300	100

HITB Hangers Timber I-Joists With LVL Flanges

Joist Width (mm)	Model No.	Dimension (mm)	
		Height (H)	Width (W)
38	HITB200/40	200	40
	HITB220/40	220	40
	HITB240/40	240	40
	HITB300/40	300	40
45	HITB200/47	200	47
	HITB220/47	220	47
	HITB240/47	240	47
	HITB300/47	300	47
51	HITB240/53	240	53
	HITB300/53	300	53
58	HITB200/61	200	61
	HITB220/61	220	61
	HITB240/61	240	61
	HITB300/61	300	61
63	HITB220/66	220	66
	HITB225/66	225	66
	HITB240/66	240	66
	HITB300/66	300	66
2ply 38	HITB200/78	200	78
	HITB220/78	220	78
	HITB300/78	300	78
89	HITB200/91	200	91
	HITB220/91	220	91
	HITB225/91	225	91
	HITB240/91	240	91
	HITB300/91	300	91



Typical ITB Installation



Typical HITB Installation

ITB Performance Data for I-Joist with LVL Flanges less than 35mm height:

Model No.	Dimensions (mm)		Installation	Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width		Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
ITB (H/W)	240 Min	53 Min	Standard	12	2	4.00	1.00	10.83	1.06
	300 Max	61 Max							
ITB (H/W)	240 Min	53 Min	Enhanced	18	6	8.40	2.98	17.44	9.33
	300 Max	61 Max							

ITB Performance Data for I-Joist with LVL Flanges equal to or greater than 35mm height:

Model No.	Dimensions (mm)		Installation	Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width		Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
ITB (H/W)	195 Min	40 Min	Standard	12	2	4.60	1.00	9.15	1.20
	300 Max	91 Max							
ITB (H/W)	195 Min	40 Min	Enhanced	18	6	8.40	2.98	17.36	7.61
	300 Max	91 Max							

ITB Performance Data for I-Joist with minimum of C30 Solid Sawn Flanges equal to 38mm height:

Model No.	Dimensions (mm)		Installation	Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width		Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
ITB (H/W)	220 Min	66 Min	Standard	12	2	4.00	1.00	9.60	1.14
	300 Max	91 Max							
ITB (H/W)	195 Min	66 Min	Enhanced	18	6	8.40	2.98	17.44	9.96
	300 Max	91 Max							

ITB Performance Data for I-Joist with minimum of C24 Solid Sawn Flanges equal to or greater than 38mm height:

Model No.	Dimensions (mm)		Installation	Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width		Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
ITB (H/W)	195 Min	47 Min	Standard	12	2	3.50	1.00	6.73	1.14
	300 Max	100 Max							
ITB (H/W)	195 Min	47 Min	Enhanced	18	6	7.50	2.98	17.92	7.96
	300 Max	100 Max							

ITB Performance Data for I-Joist with minimum of C18 Solid Sawn Flanges up to 47mm height:

Model No.	Dimensions (mm)		Installation	Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width		Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
ITB (H/W)	220 Min	47 Min	Standard	12	2	4.76	1.00	11.42	1.14
	300 Max	96 Max							
ITB (H/W)	220 Min	47 Min	Enhanced	18	6	7.50	2.98	17.92	7.96
	300 Max	96 Max							

ITB Performance Data for I-Joist with minimum of C30 Solid Sawn Flanges equal to 60mm height:

Model No.	Dimensions (mm)		Installation	Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width		Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
ITB (H/W)	220 Min	91	Standard	12	2	5.43	1.00	13.03	1.14
	300 Max								
ITB (H/W)	220 Min	91	Enhanced	18	6	8.40	2.98	17.92	7.96
	300 Max								

HITB Performance Data for I-Joist with LVL Flanges less than 35mm height:

Model No.	Dimensions (mm)		Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width	Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
HITB (H/W)	240 Min	53 Min	22	8	6.50	4.80	15.60	11.43
	300 Max	61 Max						

HITB Performance Data for I-Joist with LVL Flanges equal to or greater than 35mm height:

Model No.	Dimensions (mm)		Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width	Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
HITB (H/W)	200 Min	53 Min	22	8	8.00	3.60	17.50	11.43
	300 Max	61 Max						

HITB Performance Data for I-Joist with minimum of C30 Solid Sawn Flanges equal to 38mm height:

Model No.	Dimensions (mm)		Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width	Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
HITB-LT (H/W)	220 Min	66 Min	22	8	8.50	4.60	20.26	11.07
	300 Max	91 Max						

HITB Performance Data for I-Joist with minimum of C24 Solid Sawn Flanges equal to or greater than 38mm height:

Model No.	Dimensions (mm)		Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width	Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
HITB-LT (H/W)	195 Min	47 Min	22	8	8.10	4.60	19.10	11.07
	300 Max	100 Max						

HITB Performance Data for I-Joist with minimum of C18 Solid Sawn Flanges up to 47mm height:

Model No.	Dimensions (mm)		Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width	Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
HITB-LT (H/W)	220 Min	47 Min	22	8	10.40	4.60	25.16	11.07
	300 Max	96 Max						

HITB Performance Data for I-Joist with minimum of C30 Solid Sawn Flanges equal to 60mm height:

Model No.	Dimensions (mm)		Number of Fasteners (Use 3.75mm x 30mm)		Safe Working Load (kN)		Characteristic Capacity (kN)	
	Height	Width	Header	Joist	Long Term Download	Short Term Uplift	Down	Uplift
HITB-LT (H/W)	220 Min	91	22	8	13.60	4.60	32.69	11.07
	300 Max							