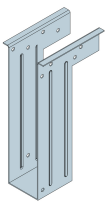
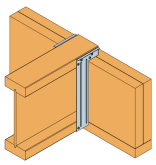
Technical Sheet

TCHI
Top Chord Hung I-Joist Hanger

The TCHI is a hanger designed to support a modified I-joist end (Top Chord Hung detail), which aids the design, manufacture and installation of loose joists, or of cassette floors, on site.







Features

Benefits

- The TCHI has been tested to accommodate for a gap of up to 15mm between the end of the I-Joist and the supporting structure.
- Install with CSA screws to avois splitting the I-Joist flanges
- Added seat stiffener provides strength and acts as a positioner for the end of the cut I Joist.
- To aid installation for the customer the TCHI has been designed to be light weight.
- If necessary, the TCHI can be installed after the I-Joists have been positioned onto the supporting member

Technical Sheet

TCHI
Top Chord Hung I-Joist Hanger

SIMPSON Strong-Tie

Technical Data

Technical Sheet

TCHI
Top Chord Hung I-Joist Hanger

SIMPSON Strong-Tie

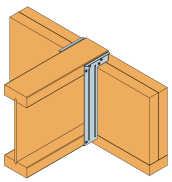
Product Dimensions

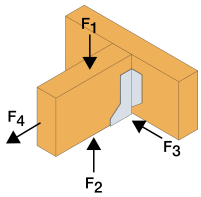
Reference	Connector Dimensions										
	Timber size[mm]		Product Dimensions[mm]							Joist holes	Other
	Width[mm]	Height	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	t[mm]	Round Ø5	Weight[kg]
TCHI200/47	45	200.0	47	197	57	45	33	8.8	1.2	10	0.28
TCHI220/47	45	220.0	47	217	56	45	33	8.8	1.2	10	0.3
TCHI240/47	45	240.0	47	237	56	45	33	8.8	1.2	10	0.32
TCHI300/47	45	300.0	47	297	56	45	33	8.8	1.2	10	0.39
TCHI360/47	45	360.0	47	357	56	45	33	8.8	1.2	10	0.45
TCHI400/47	45	400.0	47	397	56	45	33	8.8	1.2	10	0.5
TCHI195/50	47	195.0	50	192	56	45	33	8.8	1.2	10	0.28
TCHI220/50	47	220.0	50	217	56	45	33	8.8	1.2	10	0.31
TCHI235/50	47	235.0	50	232	56	45	33	8.8	1.2	10	0.32
TCHI240/50	47	240.0	50	237	56	45	33	8.8	1.2	10	0.33
TCHI245/50	47	245.0	50	242	56	45	33	8.8	1.2	10	0.276
TCHI300/50	47	300.0	50	297	56	45	33	8.8	1.2	10	0.325
TCHI220/56	53	220.0	56	217	56	45	33	8.8	1.2	10	0.31
TCHI240/56	53	240.0	56	237	56	45	33	8.8	1.2	10	0.33
TCHI300/56	53	300.0	56	297	56	45	33	8.8	1.2	10	0.39
TCHI200/63	60	200.0	63	197	56	45	33	8.8	1.2	10	0.29
TCHI220/63	60	220.0	63	217	56	45	33	8.8	1.2	10	0.31
TCHI240/63	60	240.0	63	237	56	45	33	8.8	1.2	10	0.33
TCHI300/63	60	300.0	63	297	56	45	33	8.8	1.2	10	0.4
TCHI350/63	60	350.0	63	347	56	45	33	8.8	1.2	10	0.45
TCHI360/63	60	360.0	63	357	56	45	33	8.8	1.2	10	0.46
TCHI400/63	60	400.0	63	397	56	45	33	8.8	1.2	10	0.51
TCHI220/66	63	220.0	66	217	56	45	33	8.8	1.2	10	0.32
TCHI235/66	63	235.0	66	232	56	45	33	8.8	1.2	10	0.33
TCHI245/66	63	245.0	66	242	56	45	33	8.8	1.2	10	0.284
TCHI200/72	69 I 70	200.0	72	197	56	45	33	8.8	1.2	10	0.3
TCHI220/72	69 I 70	220.0	72	217	56	45	33	8.8	1.2	10	0.32
TCHI240/72	69 I 70	240.0	72	237	56	45	33	8.8	1.2	10	0.34
TCHI300/72	69 I 70	300.0	72	297	56	45	33	8.8	1.2	10	0.4
TCHI360/72	69 I 70	360.0	72	357	56	45	33	8.8	1.2	10	0.47
TCHI400/72	69 I 70	400.0	72	397	56	45	33	8.8	1.2	10	0.51
TCHI220/75	72	220.0	75	217	56	45	33	8.8	1.2	10	0.32
TCHI235/75	72	235.0	75	232	56	45	33	8.8	1.2	10	0.34
TCHI245/75	72	245.0	75	242	56	45	33	8.8	1.2	10	0.289
TCHI200/91	89 I 90 I 2x45	200.0	91	197	56	45	33	8.8	1.2	10	0.31
TCHI220/91	89 I 90 I 2x45	220.0	91	217	56	45	33	8.8	1.2	10	0.33
TCHI240/91	89 I 90 I 2x45	240.0	91	237	56	45	33	8.8	1.2	10	0.35
TCHI300/91	89 I 90 I 2x45	300.0	91	297	56	45	33	8.8	1.2	10	0.42
TCHI360/91	89 I 90 I 2x45	360.0	91	357	56	45	33	8.8	1.2	10	0.48
TCHI400/91	89 I 90 I 2x45	400.0	91	397	56	45	33	8.8	1.2	10	0.52
TCHI195/96	2x47	195.0	96	192	56	45	33	8.8	1.2	10	0.31
TCHI220/96	2x47	220.0	96	217	56	45	33	8.8	1.2	10	0.33
TCHI235/96	2x47	235.0	96	232	56	45	33	8.8	1.2	10	0.35
TCHI240/96	2x47	240.0	96	237	56	45	33	8.8	1.2	10	0.36
TCHI245/96	96 I 97	245.0	96	297	56	45	33	8.8	1.2	10	0.36

Technical Sheet

TCHI
Top Chord Hung I-Joist Hanger

Reference	Connector Dimensions										
	Timber size[mm]		Product Dimensions[mm]							Joist holes	Other
	Width[mm]	Height	A[mm]	B[mm]	C[mm]	D[mm]	E[mm]	F[mm]	t[mm]	Round Ø5	Weight[kg]
TCHI300/96	96 I 97	300.0	99	217	56	45	33	8.8	1.2	10	0.42
TCHI220/99	96 I 97	220.0	96	242	56	45	33	8.8	1.2	10	0.34
TCHI235/99	96 I 97	235.0	99	232	56	45	33	8.8	1.2	10	0.35
TCHI240/99	96 I 97	240.0	99	237	56	45	33	8.8	1.2	10	0.36
TCHI300/99	96 I 97	300.0	99	297	56	45	33	8.8	1.2	10	0.42
TCHI350/99	96 I 97	350.0	99	347	56	45	33	8.8	1.2	10	0.48
TCHI400/99	96 I 97	400.0	99	397	56	45	33	8.8	1.2	10	0.53





Product Capacity

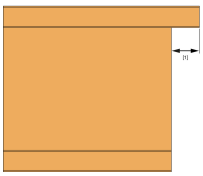
Reference	Hanger capacity				
	Number of Fasteners		Characteristic Capacities[kN]		
	Joist		36mm LVL I-joist Flanges R1,k	39mm LVL I-joist Flanges R1,k	≥ 45mm Solid Sawn I-Joist Flanges R1,k
	Qty	Type			
TCHI (Width = 47 to 96)	10.0	CSA4.0x30	9	9	9
TCHI (Width = 99)	10.0	CSA4.0x30	11.5	12	12

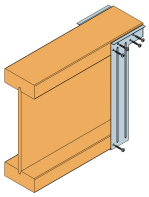
TCHI
Top Chord Hung I-Joist Hanger

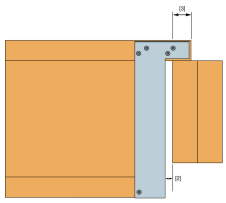
Installation

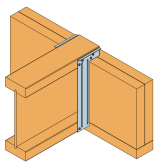
Installation Sequence

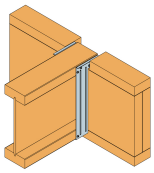
Step 1 - Cut the end of the I Joist so that the top chord overhang [1] is a minimum of 50mm
Step 2 - Fix the TCHI to the joist using 10 No. of CSA 4.0x30mm screws. The end of the joist should be tight against the seat stiffener of the hanger, and the hanger should be plumb on the I-Joist end
Step 3 - Install the modified joist into its intended position. Maximum gap [2] between the end of the joist and the supporting member is 15mm. Minimum bearing [3] onto the supporting member is 35mm
Step 4 - Blocking pieces may be installed on top of the supporting member , in-between the I-Joist flanges, to give a level finish











TCHI
Top Chord Hung I-Joist Hanger

Technical Notes

Material

Material: S250GD
Galvanised Coating: 275 g/m^2
(S250GD + Z275 according to EN10346)

Fixings

10 No. of CSA 4.0x30mm screws



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