VUETRADE for the builder

Timber Connectors
Technical Data Sheet

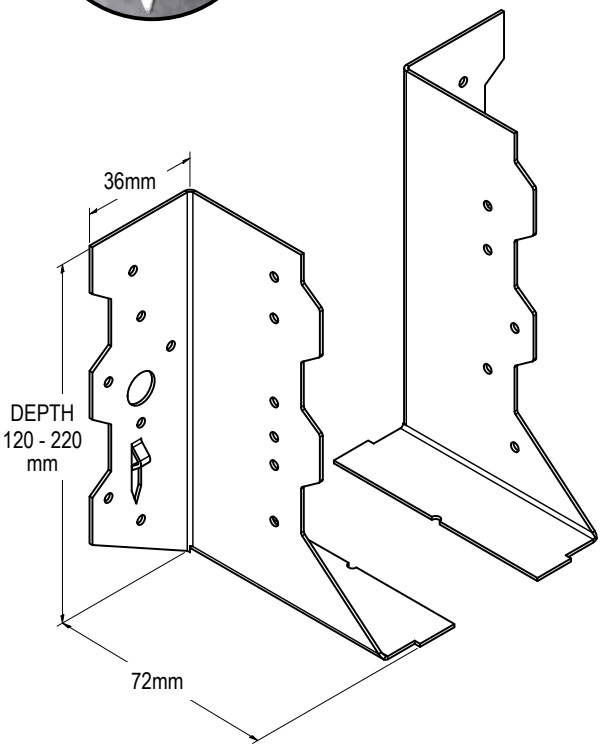
GALVANISED SPLIT JOIST HANGERS

SEP26

Compliant with the requirements of AS1684 and AS1720.
Designed and tested to AS1649.

G GALVANISED

VUESPIKES



APPLICATION

VUETRADE Split Joist Hangers are fast fixing, multi-purpose hangers for joist, beam and truss connections where timber is over the width of 50mm, to be installed as a pair.

SPECIFICATION

VUETRADE Galvanised Split Joist Hangers are Australian Made with a galvanised finish (G300 Z275).

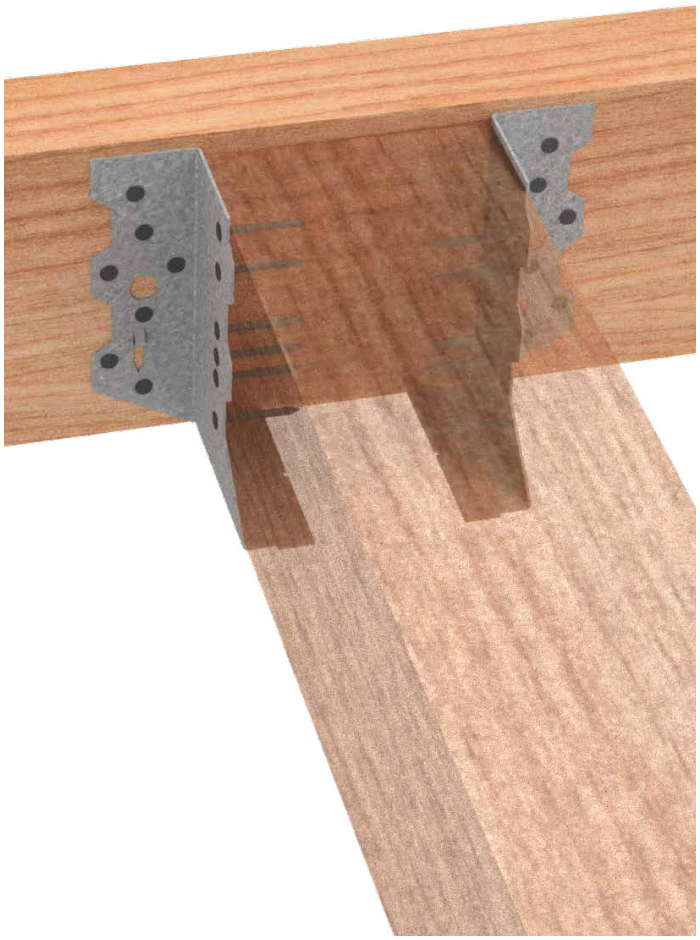
FASTENERS

Nails: Use VUETRADE 30mm x 2.8mm Ø Galvanised Connector Plate Nails **OR:**

Screws: VUETRADE Type 17 12G x 35mm screws.

SIZES

Product Code	Size (mm)	Box Qty
VSJH120	120	30 pairs
VSJH140	140	30 pairs
VSJH180	180	30 pairs
VSJH220	220	20 pairs



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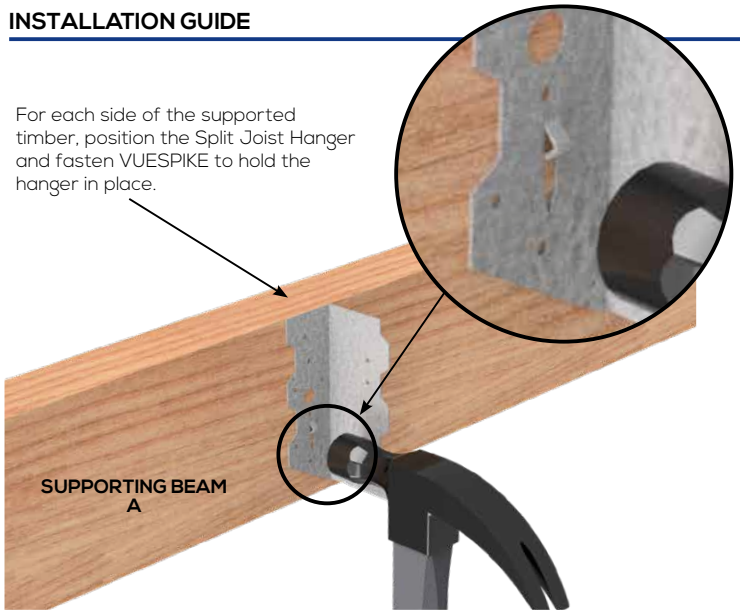
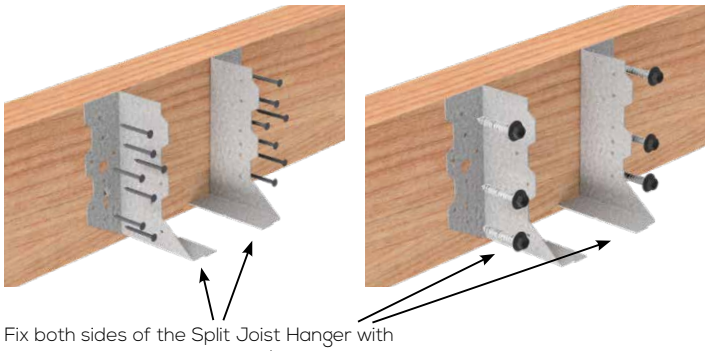
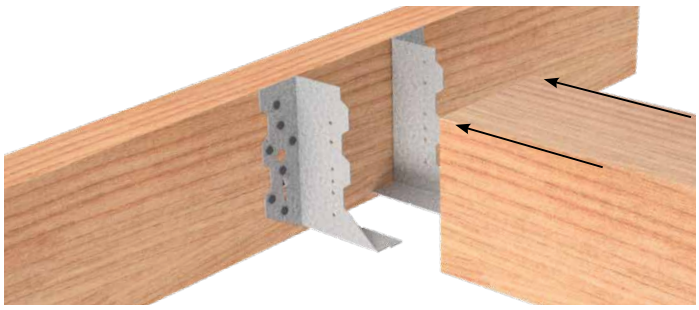
INSTALLATION GUIDE







1. Suitable size Split Joist Hanger shall be selected using Product Sizes table on previous page, ensuring sufficient hanger depth is provided for different joist / beam sizes.
2. Both sides of the Split Joist Hanger should be fixed to the supporting member first. It can be quickly and easily held in place by VUESPIKES before fastening hanger with nails.
3. Fix VUETRADE 30mm x 2.8mm Ø Galvanised Connector Plate Nails **OR** VUETRADE Type 17 12G x 35mm screws through Split Joist Hanger to supporting beam, using the recommended number of fixings listed in Table 1.
4. Install supported beam (usually floor beams / joists) to hangers and fasten supported beams with VUETRADE 30mm x 2.8mm Ø Galvanised Connector Plate Nails **OR** VUETRADE Type 17 12G x 35mm screws, using recommended number of fixings listed in Table 1.

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DESIGN CAPACITY DATA

Table 1: Design capacity data for nail fixing of Split Joist Hanger [used in pairs]

Sizes	Number of Nails		Type of load	Joint Group		
	Fixing on supporting Beam A	Fixing on supported Beam B		JD3	JD4	JD5
120mm	14 (7 on each side)	11 (6 on left, 5 on right)	Dead Load	5.6	4.0	3.3
			Dead Load + Floor Live Load	6.3	4.8	4.0
			Dead Load + Roof Live Load	7.6	5.4	4.4
			Dead Load + Wind Load	11.2	8.0	6.6
140mm	18 (9 on each side)	13 (7 on left, 6 on right)	Dead Load	6.6	4.7	3.8
			Dead Load + Floor Live Load	7.9	5.7	4.6
			Dead Load + Roof Live Load	8.8	6.3	5.2
			Dead Load + Wind Load	13.1	9.4	7.7
180mm	22 (11 on each side)	15 (8 on left, 7 on right)	Dead Load	7.5	5.4	4.4
			Dead Load + Floor Live Load	9.1	6.5	5.3
			Dead Load + Roof Live Load	10.1	7.2	5.9
			Dead Load + Wind Load	15.0	10.7	8.8
220mm	26 (13 on each side)	17 (9 on left, 8 on right)	Dead Load	8.4	6.0	4.9
			Dead Load + Floor Live Load	10.2	7.3	6.0
			Dead Load + Roof Live Load	11.4	8.1	6.7
			Dead Load + Wind Load	15.8	12.0	9.9

NOTES:

- Capacities tabulated above are for supporting beam (Beam A) to be minimum of 35mm thickness.
- Design capacities in Table 1 are based on Category 1 joints where it is applicable for failures that would be unlikely to affect an area of greater than 25m^2. For Category 2 and Category 3 joints, design capacities from the table are multiplied by 0.941 and 0.882 respectively.
- Ensure that both of the Split Joist Hangers cover at least 60% of the depth of the supported member, unless additional lateral restraint on the top of supported member is provided.
- Supporting beams/trusses made from multiple ply must be laminated and fastened together as per AS1684. Split Joist Hangers fixed with screws must use 65mm length screws in lieu of 35mm to fix into double ply beams/trusses unless advised otherwise. Alternative fixing to laminate multiple ply beams/trusses shall be provided by relevant engineering authorities.
- Fixing of Split Joist Hangers with VUETRADE connector plate screws to follow fixing configuration supplied in this document to ensure proper load distribution and spacing are adhered to.
- Capacities for Split Joist hangers fixed by VUETRADE connector plate screws as per the quantities detailed in Table 2 in the provided fixing configuration, shall be subject to load ratings of Table 1.
- Split Joist Hanger capacities are capped at 15.8kN for steel failure.

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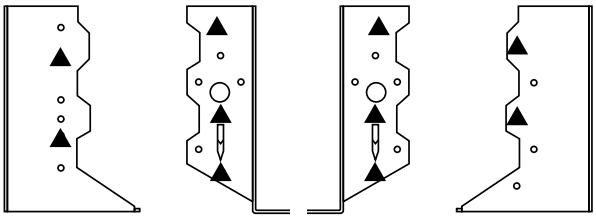
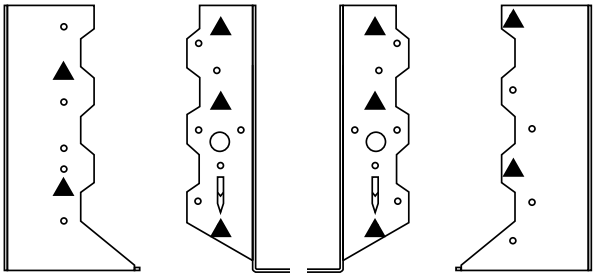
VUETRADE TYPE 17 12G X 35mm MINIMUM SCREW FASTENING METHOD

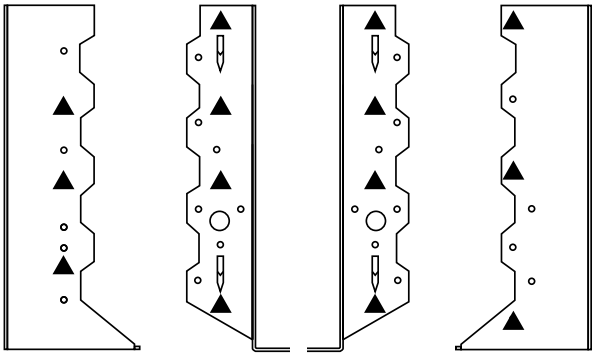
120mm



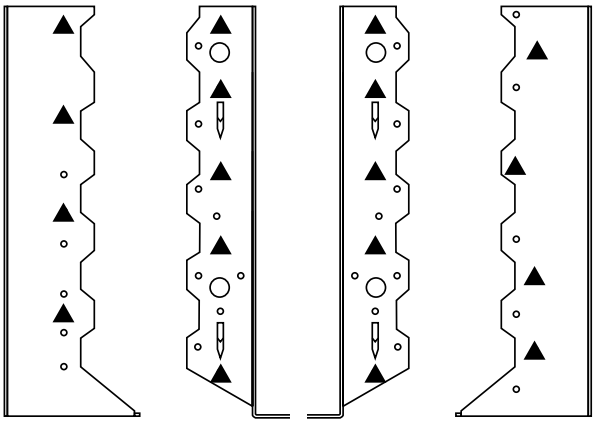
140mm



180mm



220mm



Fastening quantities detailed are the minimum recommended, and meet the design capacities when installed with even spacing after meeting initial timber edge requirements.

Changing fastening methods and / or listed quantities to any method other than that which is illustrated is with users descretion.

Table 2: Screw fixing qty of Split Joist Hanger [used in pairs]

Sizes	Number of Screws	
	Fixing on supporting Beam A	Fixing on supported Beam B
120mm	6 (3 on each side)	4 (2 on each side)
140mm	6 (3 on each side)	4 (2 on each side)
180mm	8 (4 on each side)	6 (3 on each side)
220mm	10 (5 on each side)	4 (3 on each side)

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