

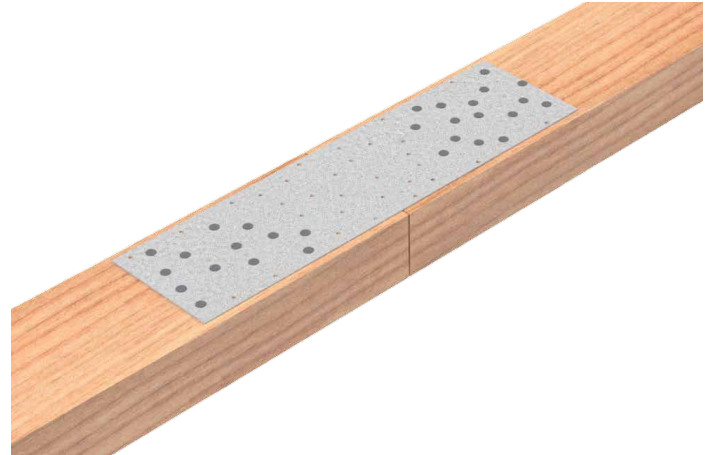


GALVANISED BEARER PLATES

JUN23

Compliant with the requirements of AS1684.

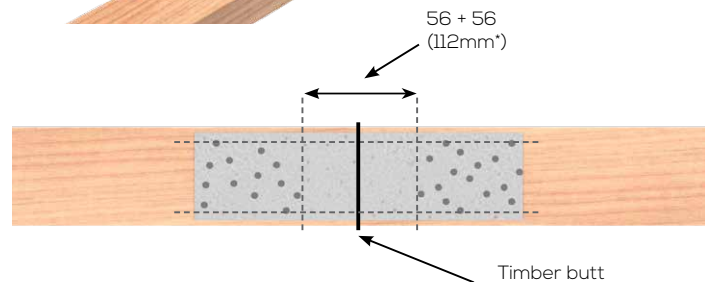
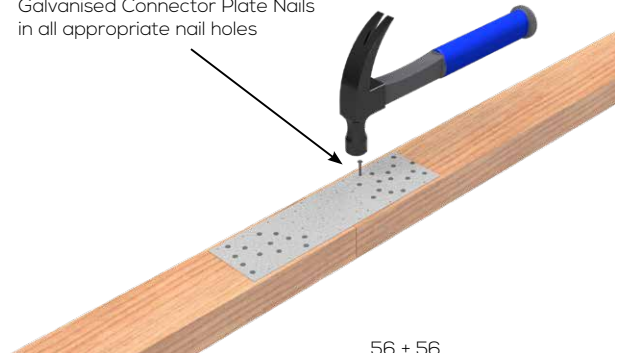
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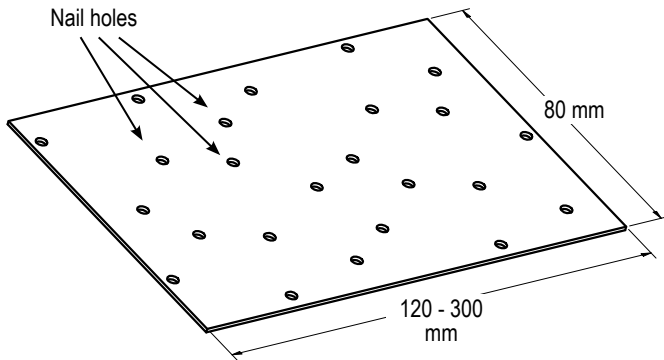
INSTALLATION GUIDE

1. Install VUETRADE Bearer Plate to joint by driving VUETRADE 30mm x 2.8mm Ø Galvanised Connector Plate Nails with a hammer.
2. Ensure that nails are driven in all appropriate nail holes to ensure product compliancy and maximum load obtained.
3. Ensure that no nails driven within 56mm of the timber butt end and 14mm to the timber edge.
4. For application of butt jointing, ensure that the Bearer Plates are installed with equal length in the timber member (symmetrically) and fix one plate on each face of the timber member.

Install VUETRADE 30mm x 2.8mm Ø Galvanised Connector Plate Nails in all appropriate nail holes



* No nails should be driven within 56mm from timber butt end or within 14mm to the timber edge to reduce risk of timber splitting.



APPLICATION

VUETRADE Bearer Plates are manufactured as a flat steel plate which are then fixed with flat head nails or screws. The plates are suitable for a range of construction applications such as:

- Joining timber by butting members together (for spliced joint connection Bearer Plates must be used in pairs);
- An alternative for heavy duty connection where a tap in plate will not offer adequate strength;
- Framework repair;
- Member or joint reinforcement works.

SPECIFICATION

VUETRADE Bearer Plates are manufactured in 1.0mm G300 Z275 galvanised steel in various lengths.

FASTENERS

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

SIZES

Product Code	Size (mm)	Box Qty	Number of holes per plate
VTBP80120	80 x 120	100	24
VTBP80180	80 x 180	100	36
VTBP80240	80 x 240	50	48
VTBP80300	80 x 300	50	60





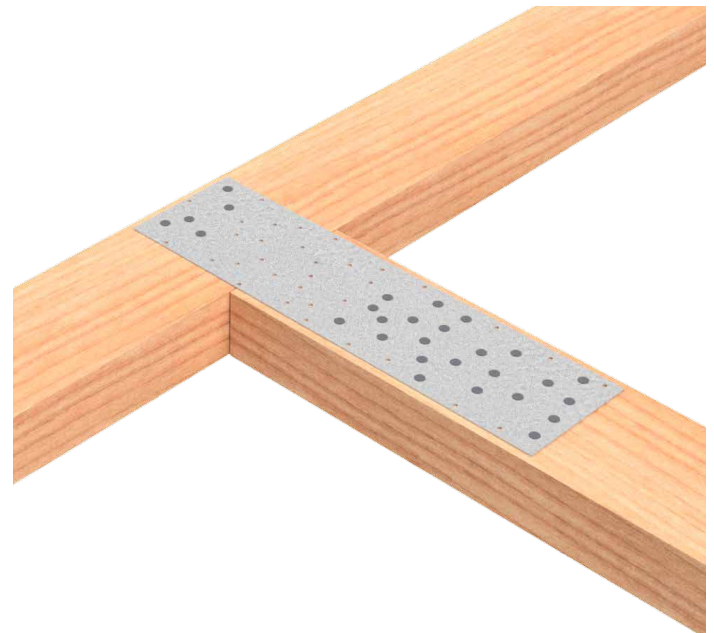
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DESIGN CAPACITY DATA

Table 1: Design capacities for a pair of Bearer Plates of 80mm width at various lengths

Length	Type of Load	Design Capacity for Timber Joint Groups, kN					
		J3	J4	J5	JD3	JD4	JD5
120mm	Dead Load						
	Dead Load + Roof Live Load			See note 4(c)			
	Dead Load + Wind Load						
180mm	Dead Load	4.6	3.3	2.5	6.5	4.6	3.8
	Dead Load + Roof Live Load	6.3	4.4	3.3	8.8	6.3	5.1
	Dead Load + Wind Load	9.3	6.6	5.0	13	9.3	7.6
240mm	Dead Load	9.8	6.9	5.2	13.7	9.8	8.1
	Dead Load + Roof Live Load	13.3	9.4	7.1	18.6	13.3	10.9
	Dead Load + Wind Load	19.7	13.9	10.5	27.5	19.7	16.1
300mm	Dead Load	12.4	8.8	6.6	17.3	12.4	10.2
	Dead Load + Roof Live Load	16.7	11.8	8.9	23.4	16.7	13.7
	Dead Load + Wind Load	24.8	17.5	13.2	34.6	24.8	20.3



NOTES:

- Design capacities in Table 1 are for a pair of plates.
- The duration factor k_1 used to derive the values above are 0.57 for dead loads, 0.77 for combination of dead load and roof live load and 1.14 for combination of dead load and wind load. Modification factors k_1 for different load cases are adopted from AS1720.1-2010.
- Design capacities in the table are based on Category 1 joints where it is applicable for failures that would be unlikely to affect an area of greater than 25m². For Category 2 and Category 3 joints, design capacities from the table are multiplied by 0.941 and 0.882 respectively.
- Capacities obtained above are based on the following criteria:
 - Nail holes within 56mm from the timber end are not fixed, otherwise all holes must be fixed with VUETRADE 30mm x 2.8mm Ø Galvanised Connector Plate Nails.
 - The timber end / edge distance of 56mm / 14mm according to AS1720.1-2010 shall not have any nail fixed to the timber.
 - 80x120mm Bearer Plates are not recommended to be used for splice joint connection as it does not meet AS1720.1-2010 end-distance requirements of no nails shall be installed 56mm from the timber end.

