

VUETRADE STAINLESS STEEL MINIGRIPS & MULTIGRIPS

STRAPS FOR TYING DOWN PURLINS AND TRUSSES TO WALL FRAMES IN HIGH WIND AREAS

Application

VUETRADE Stainless Steel Minigrips and Multigrips are general purpose timber framing brackets used for joining two timber members at right angles. These brackets can be used on pergolas, timber rails, fences and general joinery fit-out.

Product Sizes

Product CODE	Length	Box Quantity
VTMG57SS	57mm	200
VTMG100SS	100mm	200

Specification

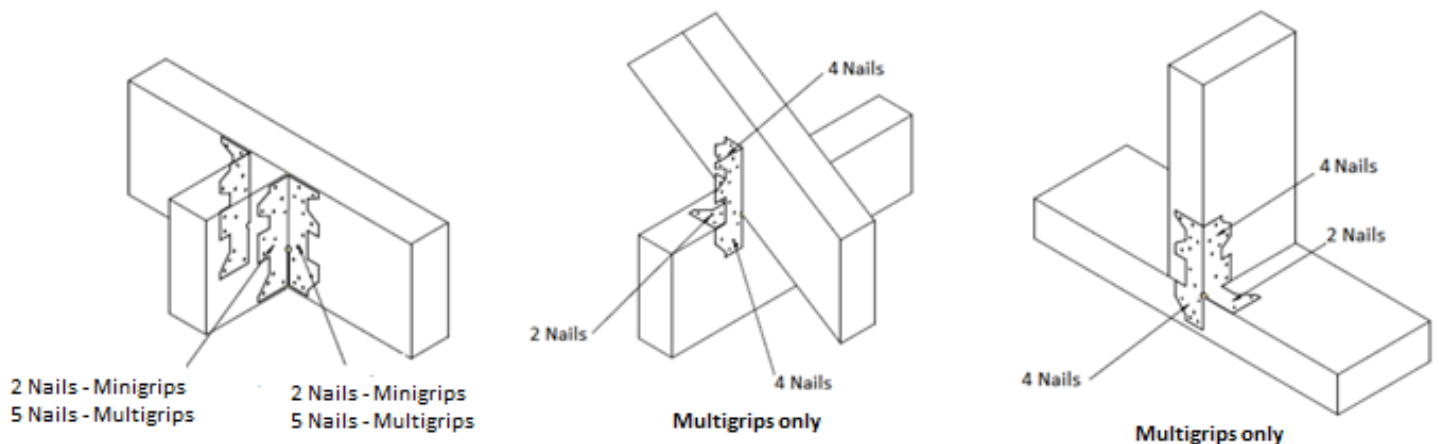
VUETRADE Stainless Steel Minigrips and Multigrips are manufactured from 316 Stainless Steel in 1.0mm thickness.

Fasteners

Use only 30mm x 2.8mm VUETRADE 316 Stainless Steel connector plate nails for optimum load efficiency.

Installation

Drive 30mm x 2.8mm VUETRADE 316 Stainless Steel nails into both timber members. The recommended number of nails are shown in the figure below.



NOTE: All VUETRADE™ products are compliant with the requirements of AS1720 and AS4600

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Design Capacity Data

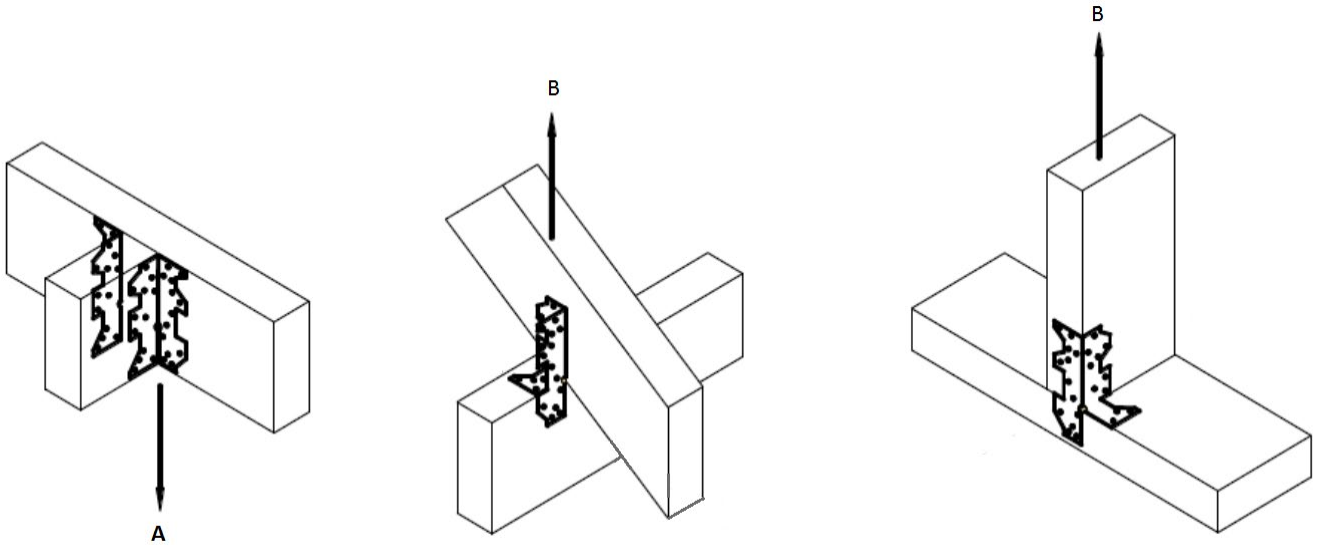


Table 1: Minigrip Design Capacity Table – Load Direction A (2 nails into each timber member)

Load Directions	Design Capacity for Timber Joint Groups, kN											
	J1	J2	J3	J4	J5	J6	JD1	JD2	JD3	JD4	JD5	JD6
Dead Load, 1.35G	2.7	2.2	1.5	1.1	0.8	0.6	3.6	2.7	2.2	1.5	1.3	1.0
Dead & Roof Live Loads, 1.2G+1.5Q _r	3.7	2.9	2.1	1.5	1.1	0.8	4.9	3.7	2.9	2.1	1.7	1.3
Wind Uplift	5.5	4.3	3.1	2.2	1.7	1.2	7.3	5.5	4.3	3.1	2.5	1.9

Table 2: Multigrip Design Capacity Table – Load Direction A (5 nails into each timber member)

Load Directions	Design Capacity for Timber Joint Groups, kN											
	J1	J2	J3	J4	J5	J6	JD1	JD2	JD3	JD4	JD5	JD6
Dead Load, 1.35G	6.9	5.4	3.9	2.7	2.1	1.5	9.1	6.9	5.4	3.9	3.2	2.4
Dead & Roof Live Loads, 1.2G+1.5Q _r	9.3	7.3	5.2	3.7	2.8	2.1	12.3	9.3	7.3	5.2	4.3	3.3
Wind Uplift	13.7	10.8	7.7	5.5	4.1	3.1	18.2	13.7	10.8	7.7	6.3	4.8

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Table 3: Multigrip Design Capacity Table – Load Direction B (10 nails for each Multigrip)

Load Directions	Design Capacity for Timber Joint Groups, kN											
	J1	J2	J3	J4	J5	J6	JD1	JD2	JD3	JD4	JD5	JD6
Wind Uplift	5.5	4.3	3.1	2.2	1.7	1.2	7.3	5.5	4.3	3.1	2.5	1.9

NOTE:

1. Design capacities in Table 1, Table 2 and Table 3 apply to all sizes of VUETRADE Stain Steel Minigrips and Multigrips, where the minimum amount of nails is described in the caption.
2. To achieve greater design capacity, more nails may be installed into the pre-bored holes. NEVER punch nails through sheet metal as it may result in weaker, non-compliant connections.
3. Modification factor, k_1 is 1.14 as recommended in AS 1720.
4. Design capacities in the Table 1, Table 2 and Table 3 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.