VUETRADE for the builder

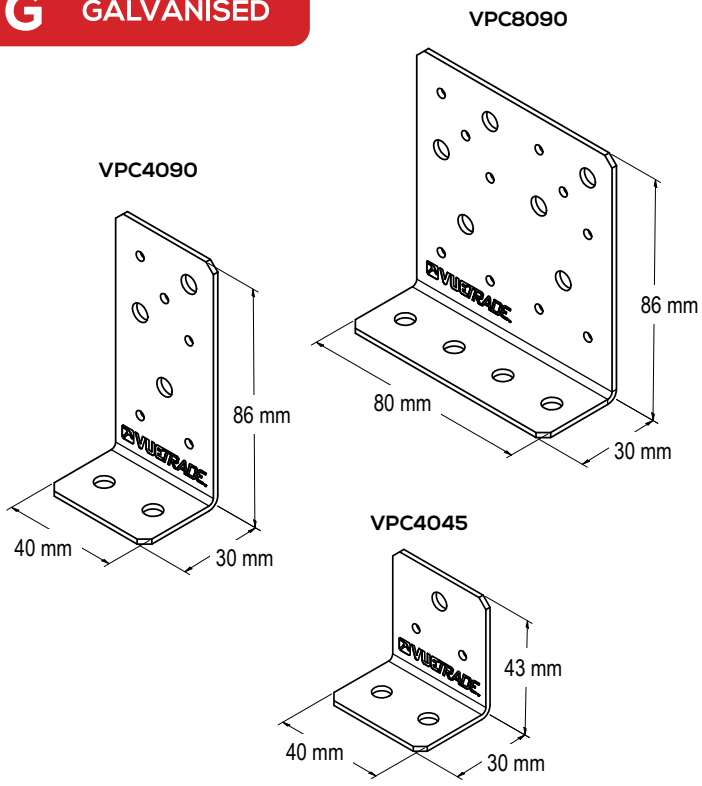
Timber Connectors
Technical Data Sheet

GALVANISED CONCEALED PURLIN CLEAT

NOV26

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

G GALVANISED



APPLICATION

The VUETRADE Purlin Cleat is a strong and versatile bracket used to connect and provide tie-down of trusses to top plates or beams.

SPECIFICATION

VUETRADE Purlin Cleats are manufactured from G300 Z275 galvanised steel in 2.0 mm thickness.

FASTENERS FOR LONG SIDE (TRUSS / STUD)

Screws: VUETRADE Type 17 12G x 35mm Galvanised Connector Plate Screws, **OR:**

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

FASTENERS FOR SHORT SIDE (WALL PLATE / BEAM)

Screws: VUETRADE Type 17 12G x 35mm Galvanised Connector Plate Screws **OR:**

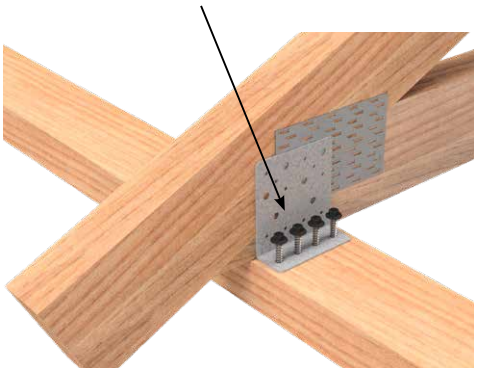
VUETRADE Type 17 12G x 65mm Galvanised Connector Plate Screws as specified.

SIZES

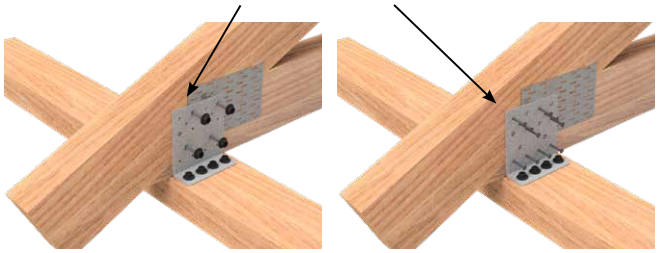
Product Code	Nominal Dimensions	Ctn Qty
VPC4045	40 x 30 x 45mm	50
VPC4090	40 x 30 x 90 mm	50
VPC8090	80 x 30 x 90 mm	50

INSTALLATION GUIDE OF VPC8090

Install 4x VUETRADE Type 17 12G x 35mm Galvanised Connector Plate Screws to short side (See note 1)



Install 4x VUETRADE Type 17 12G x 35mm Galvanised Connector Plate Screws, OR 10x 30mm x 2.8mm Ø Galvanised Connector Plate Nails to long side



NOTES:

1. Fixing of Concealed Purlin Cleats to double top plate requires the use of 65mm screws. Refer to Tables 1 to 6 for relevant 65mm screw capacity data.
2. For other sizes of the Concealed Purlin Cleat, use the recommended number of fixings listed in the Design Capacity Data..

technical@bellevuegroup.com.au
1300 850 520 www.vuetrade.com

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GALVANISED CONCEALED PURLIN CLEAT

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DESIGN CAPACITY DATA





*Table 1: Concealed Purlin Cleats **VPC8090** with 4x 12Gx35mm screw fixing of Long side (Truss / Stud)*

Fixing on Short side (Plate/Beam)	Design Capacity for Timber Joint Groups, kN		
	JD3	JD4	JD5
4x 12G x **35mm** screws	11.2	8.4	6.7
4x 12G x **65mm** screws	13.8	9.8	6.9





*Table 2: Concealed Purlin Cleats **VPC4090** with 2x 12Gx35mm screw fixing of Long side (Truss / Stud)*

Fixing on Short side (Plate/Beam)	Design Capacity for Timber Joint Groups, kN		
	JD3	JD4	JD5
2x 12G x **35mm** screws	5.6	4.2	3.4
2x 12G x **65mm** screws	6.9	4.9	3.5





*Table 3: Concealed Purlin Cleats **VPC4045** with 1x 12Gx35mm screw fixing of Long side (Truss / Stud)*

Fixing on Short side (Plate/Beam)	Design Capacity for Timber Joint Groups, kN		
	JD3	JD4	JD5
2x 12G x **35mm** screws	3.5	2.5	1.7
2x 12G x **65mm** screws	3.5	2.5	1.7

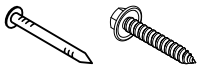




*Table 4: Concealed Purlin Cleats **VPC8090** with 10x 30x2.8mm Ø nail fixing of Long side (Truss / Stud)*

Fixing on Short side (Plate/Beam)	Design Capacity for Timber Joint Groups, kN		
	JD3	JD4	JD5
4x 12G x **35mm** screws	9.0	6.4	5.3
4x 12G x **65mm** screws	9.0	6.4	5.3



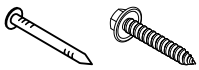


*Table 5: Concealed Purlin Cleats **VPC4090** with 5x 30x2.8mm Ø nail fixing of Long side (Truss / Stud)*

Fixing on Short side (Plate/Beam)	Design Capacity for Timber Joint Groups, kN		
	JD3	JD4	JD5
2x 12G x **35mm** screws	4.5	3.2	2.6
2x 12G x **65mm** screws	4.5	3.2	2.6

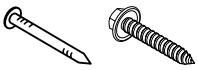




*Table 6: Concealed Purlin Cleats **VPC4045** with 2x 30x2.8mm Ø nail fixing of Long side (Truss / Stud)*

Fixing on Short side (Plate/Beam)	Design Capacity for Timber Joint Groups, kN		
	JD3	JD4	JD5
2x 12G x **35mm** screws	1.8	1.3	1.1
2x 12G x **65mm** screws	1.8	1.3	1.1

NOTES:

- Design capacities in the above tables are based on installing the above listed fasteners through pre-punched holes.
- Modification factors k1 used in capacity tables above is for wind uplift and is adopted from AS1720.1-2010.
- Design capacities in the above tables 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 in above tables can be doubled when a pair of cleats are installed.
- The longer screw 12G x 65mm specificied in the tables above are required for double top plates, or to beams/ lintels for higher capacity.
- VUETRADE strongly recommends all timber connector products are installed as per the installation instructions on the relevant Technical Data Sheet, using the recommended type and quantity of fasteners.

technical@bellevuegroup.com.au
1300 850 520 www.vuetrade.com

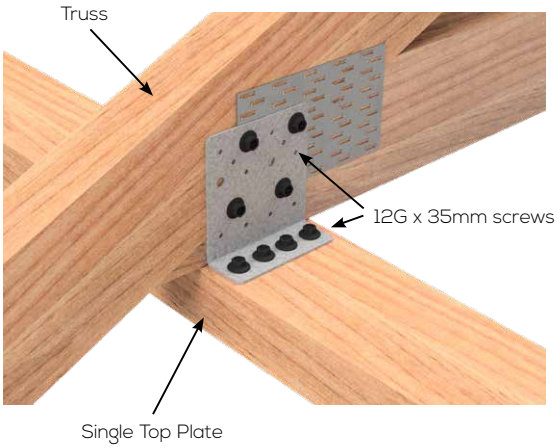
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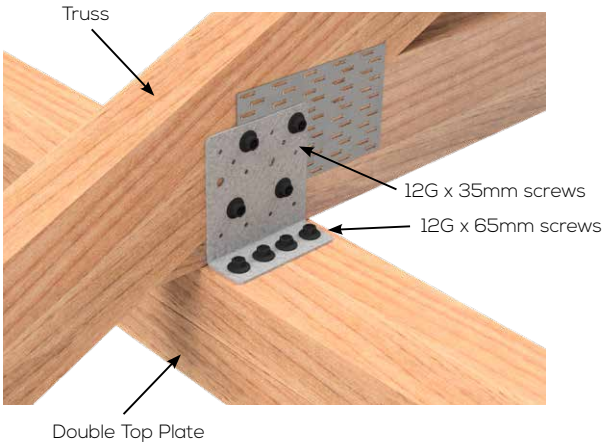
GALVANISED CONCEALED PURLIN CLEAT

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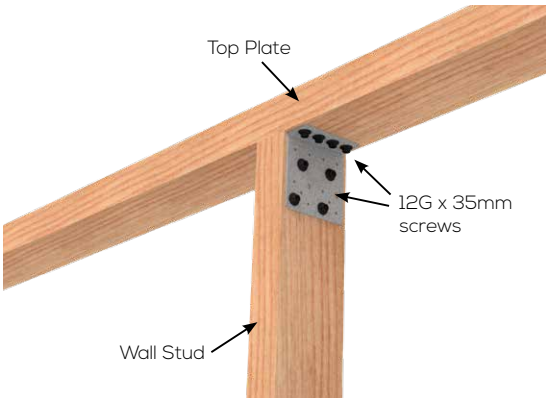
ALTERNATE USAGE OF CONCEALED PURLIN CLEAT

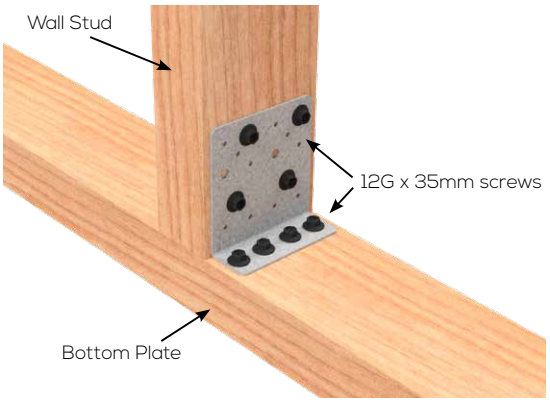
Rafter/Truss to top plate



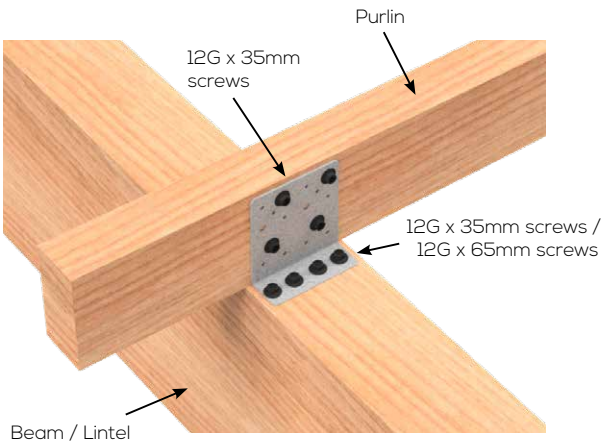


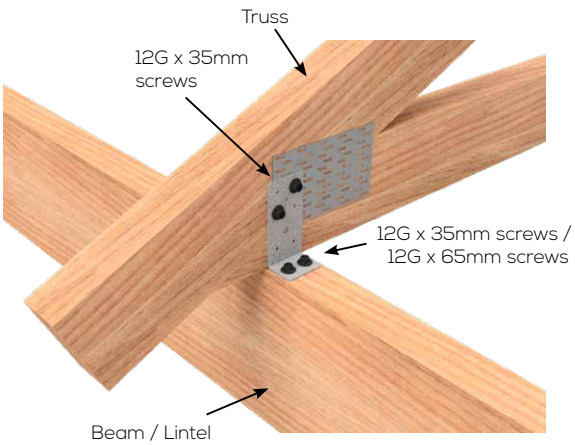
Stud to top/bottom plate





Truss/Rafter/Purlin to beam / lintel





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