VUETRADE for the builder

Timber Connectors
Technical Data Sheet

STAINLESS STEEL FULL STIRRUP POST SUPPORTS

JUN23

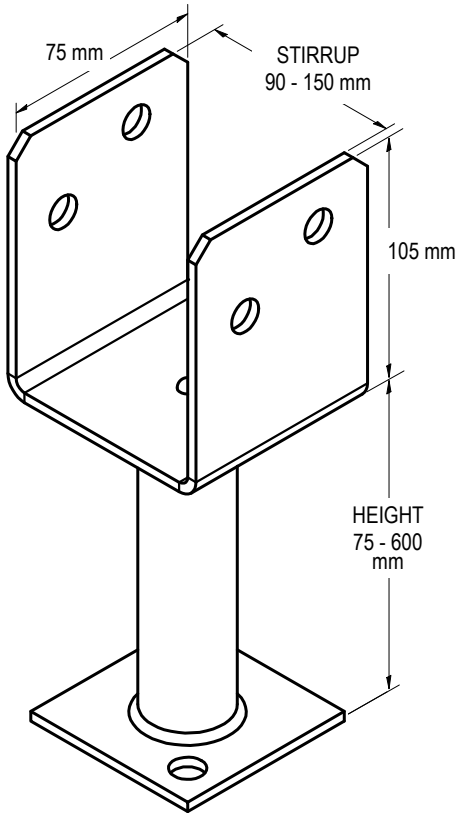
Compliant with the requirements of AS1684 and AS1720.

304 STAINLESS STEEL

316 STAINLESS STEEL

BOLTED TO CONCRETE

CAST INTO CONCRETE



APPLICATION

VUETRADE Stainless Steel Full Stirrup Post Supports are designed to support timber posts with excellent strength. Installed either by bolting to the concrete or by casting into wet concrete. These post supports offer a strong and solid connection, with high resistance to rust specifically for applications near the coast.

SPECIFICATION

VUETRADE Stainless Steel Full Stirrup Post Supports are available to be manufactured in two materials, SS304 and SS316.

FASTENERS

Saddle: 2x Stainless Steel VUEBOLT or appropriate M12 bolts with hex nuts

Base: 2x stainless steel M12 concrete bolts or equivalent

Only use stainless steel fasteners (bolts) with stainless steel post support, usage of other steel materials may lead to bimetallic corrosion.

SIZES

Stainless Steel Full Stirrup Post Support stirrup sizes range from 90 to 150mm, and leg sizes from 75 to 600mm. Common sizes include:

Product Code	Stirrup Size (mm)	Height (mm)	Box Qty
VPS13090SS	90	130	10
VPS130115SS	115	130	10
VPS130125SS	125	130	10
VPS130135SS	135	130	10
VPS20090SS	90	200	10
VPS30090SS	90	300	10

* For extensive listing of standard and custom sized Stainless Steel Full Stirrups, refer to the VUETRADE Full Stirrup Post Support webpage.

MATERIAL SPECIFICATION

Stainless Steel 304

Composition: 18 % Chromium, 8% Nickel

Corrosion resistance: Good resistance to oxidation and corrosion, but weak against acidic environment

Stainless Steel 316

Composition: 16% Chromium, 10% Nickel, 2% Molybdenum

Corrosion resistance: Superior corrosion resistance against acidic/high chloride environments

NOTE:

'Tea-staining' is a cosmetic issue with some VUETRADE Stainless Steel Post Supports (more prevalent in SS304) but this does not affect the structural integrity or material lifetime of the post support.

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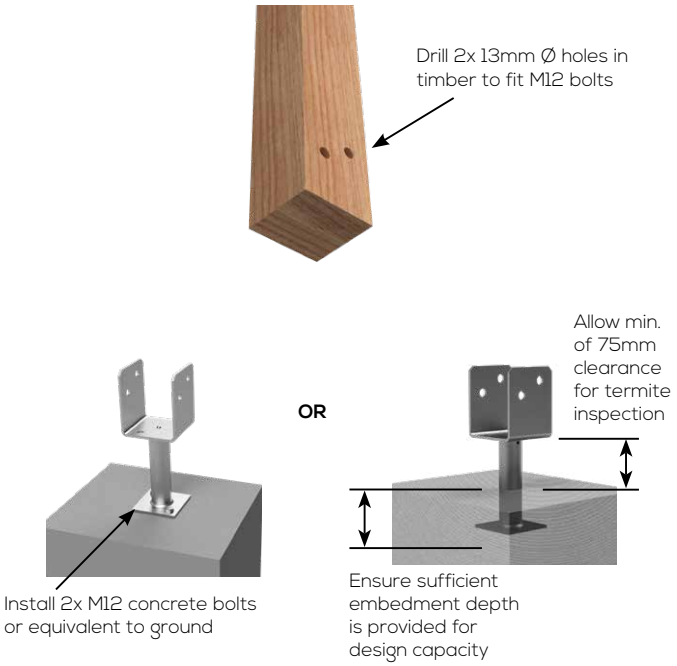
INSTALLATION GUIDE AND BOLT FIXING SCHEDULE



NOTES:

1. Embedment depth of VUETRADE Post Support should be determined and calculated by a Structural Engineer to achieve the reported design load. This usually depends on the type of concrete used, aggregate ratio etc.

2. 75mm clearance must be provided to conform to the requirements set out by AS3660.1:2014 - *Termite management, Part 1: New building work.*

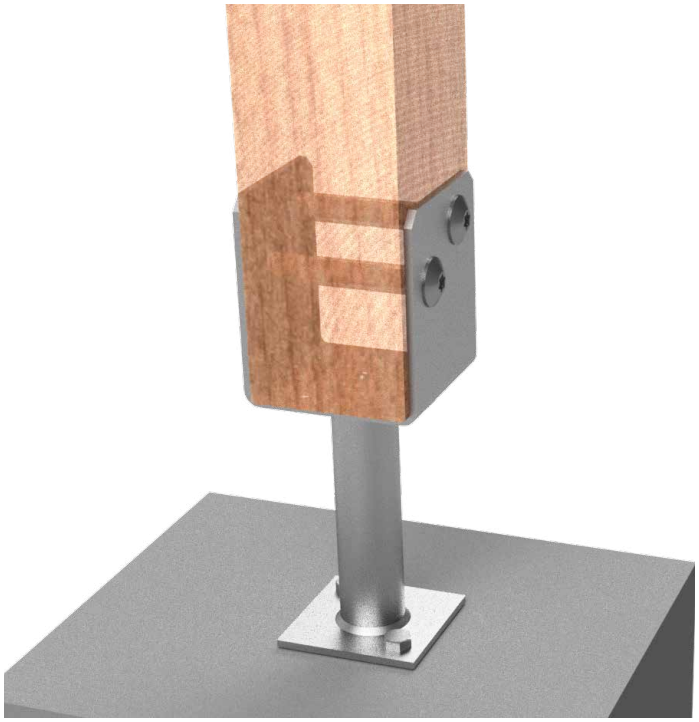
DESIGN CAPACITY DATA

Table 1: Design capacities of Full Stirrup Post Support on various timber joint groups

Load Case	Design Capacity, Ndj (kN)					
	J3	J4	J5	JD3	JD4	JD5
Uplift capacity	12.7	10.0	8.7	15.8	12.7	11.0

NOTES:

1. Design capacity in Table 1 applies to VUETRADE Post Supports where 2x M12 bolts are installed and tightly fastened with nuts.
2. Timber posts must have minimum dimensions of 90mm by 90mm section and shall be installed flat to the base of the post support.
3. Design capacities for post supports bolted or cast into concrete assume that there is sufficient anchorage in the concrete to resist the pull-out force imposed by wind loading.
4. Design capacities in the above table are for wind uplift (vertical force direction) only and areas obtained under strict test condition defined by AS1649-2001 – *Timber - Methods of test for mechanical fasteners and connectors.*
5. VUETRADE Post Supports should only be used to resist wind uplift / dead load as specified in the TDS and should not be assumed to provide lateral stability. Sufficient bracing should be provided and approved by a structural engineer for lateral stability.
6. Design capacity of post support may be limited by the withdrawal tensile capacity of concrete bolts used to fasten post support to concrete ground. Ensure that suitable concrete bolts are used for above design capacities to be valid.



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