VUETRADE for the builder

Timber Connectors
Technical Data Sheet

STAINLESS STEEL BOLT DOWN POST SUPPORTS

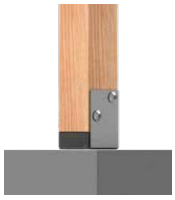
JUN23

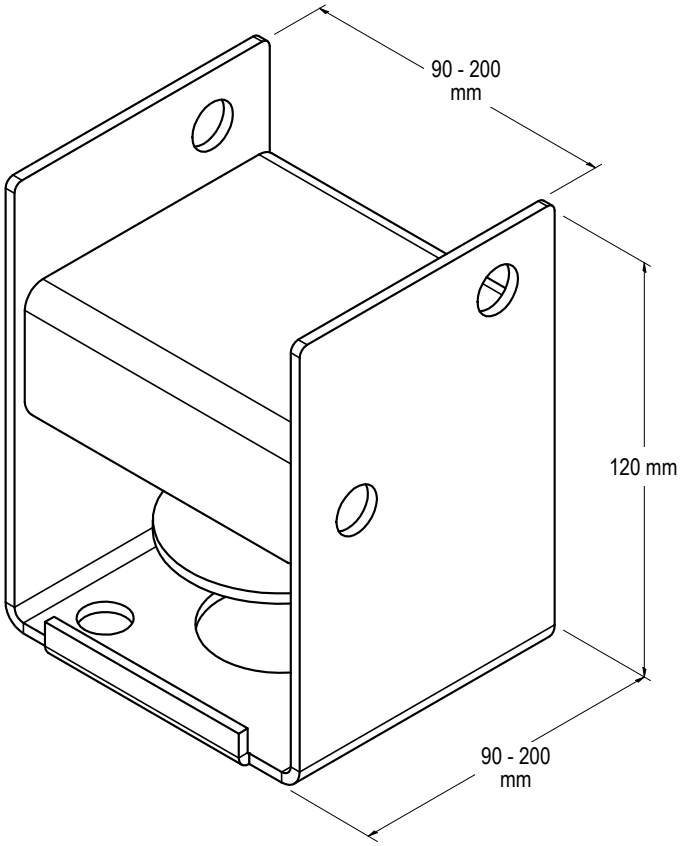
Compliant with the requirements of AS1720.

304 STAINLESS STEEL

316 STAINLESS STEEL

BOLTED TO CONCRETE





APPLICATION

Stainless Steel Bolt Down Post Supports are anchors ideal for bolting down timber posts in coastal areas.

SPECIFICATION

VUETRADE Stainless Steel Bolt Down Post Supports are available in two different materials, SS304 and SS316 in 2mm thickness (only in Bolt Down 90) & 4mm thickness (rest of bolt down PS range).

The Bolt Down 90 can also be installed to conceal or open the gap that shows bolts and washers within the post support.

FASTENERS

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

Base: **Method 1:** 1x M12 stainless steel concrete bolt or equivalent fastened with supplied washer, **OR:**

Method 2: 2x M12 stainless steel concrete bolts or equivalent in specified bolt holes

For Stainless Steel Bolt Down Post Supports 115mm in size and over, only Method 2 is possible.

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

SIZES

Product Code	Stirrup Size (mm)	Saddle & Base Thickness (mm)	Box Qty
VBPS90SS	90	2	10
VBPS100SS	100	4	10
VBPS115SS	115	4	10
VBPS125SS	125	4	10
VBPS135SS	135	4	10
VBPS140SS304	140	4	10
VBPS150SS304	150	4	10
VBPS200SS	200	4	10

Codes above are for Stainless Steel 304 products, for Stainless Steel 316 add '316' to the end of the code.

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.

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

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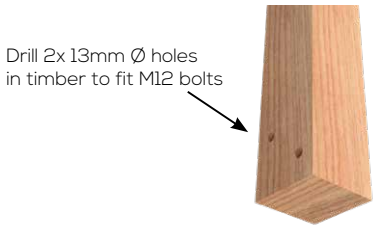
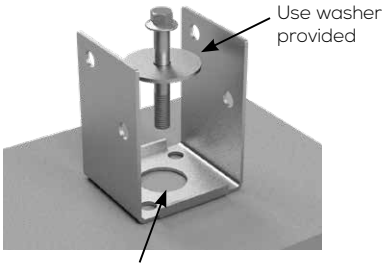
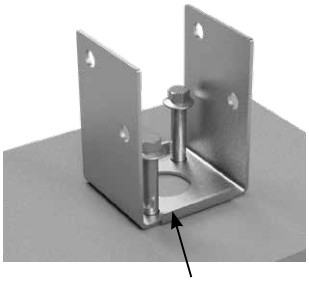
INSTALLATION GUIDE AND BOLT FIXING SCHEDULE

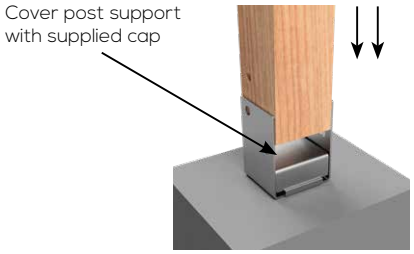


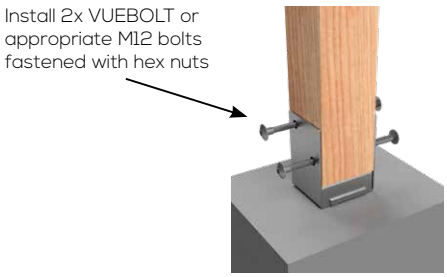
METHOD 1



METHOD 2







NOTES:

1. Method 1 is suitable when a larger tolerance of adjustment is needed after bolt holes are drilled. Washers are used in this fixing type to provide hold down strength to post support.
2. Method 2 is suitable when precise fixing and excellent holding strength are desired.
3. Ensure that suitable M12 concrete bolts are used when bolting post support to ground.
4. VUEBOLT may be used as an alternative to standard M12 bolts when fixing post support to timber posts for a concealed and smooth finish.

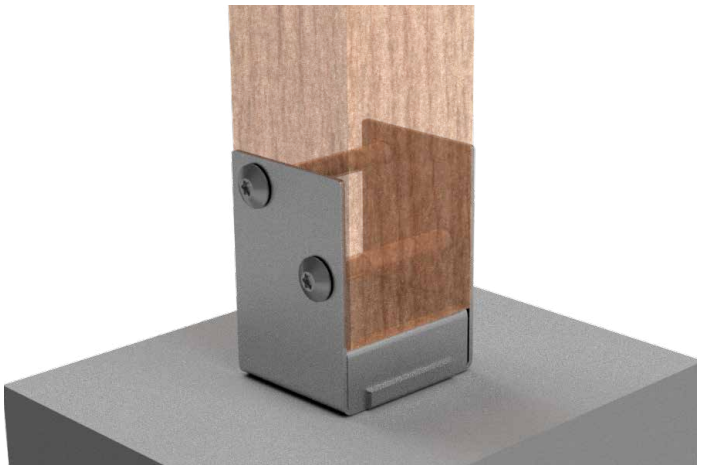
DESIGN CAPACITY DATA

Table 1: Design Capacity of Stainless Steel Bolt Down Post Support in different joint groups

Load Case	Design Capacity, Ndj (kN)					
	J3	J4	J5	JD3	JD4	JD5
Uplift capacity	9.4	7.5	6.5	11.8	9.4	8.2

NOTES:

1. Ensure that suitable M12 stainless steel concrete bolts are used when bolting post support to ground.
2. Use only stainless steel bolts with stainless steel post support, usage of other steel materials bolt with stainless steel post support may lead to bimetallic corrosion.
3. Fixing of stainless steel VUEBOLT may be used as an alternative to standard M12 bolts when fixing post support to timber posts for smooth architectural finish.
4. Design capacity in the above table applies to VUETRADE Post Supports where 2x M12 SS bolts are installed and tightly fastened with hex nuts.
5. Bolts at the base of the post supports must have sufficient anchorage to resist wind uplift.
6. Timber post dimensions must have a minimum dimension of 90mm by 90mm section.
7. Design capacities in both tables are for forces in the vertical direction (wind uplifts) only and are obtained under test conditions defined in AS1649-2001 – *Timber - Methods of test for mechanical fasteners and connectors* & uplift capacity requirements outlined in AS1720.1-2010 – *Timber structures, Part 1: Design methods*.
8. 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.
9. 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 capacity to be valid.



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