



STAINLESS STEEL 90mm BOLT DOWN POST SUPPORTS

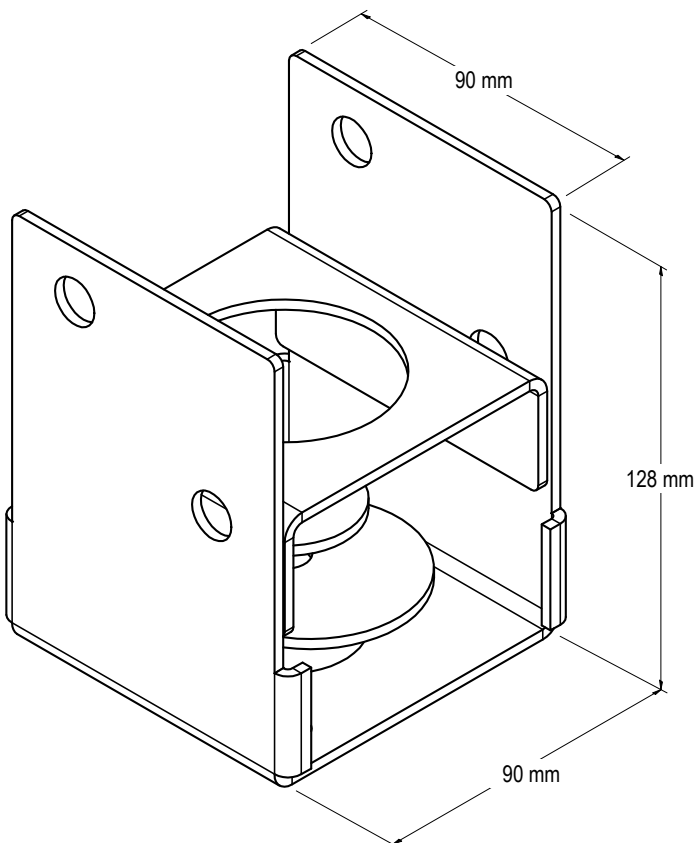
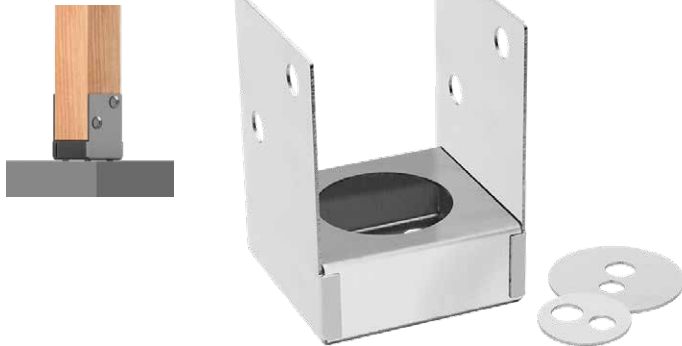
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Compliant with the requirements of AS1720.

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 manufactured from Stainless Steel 304 or 316 in 1.5mm thickness. It can 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 concrete bolt or equivalent fastened with supplied washers, **OR:**

Method 2: 2x M12 concrete bolts or equivalent fastened to designated bolt holes

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

SIZES

Product Code	Size (mm)	Material
VBPS90SS	90	SS 304
VBPS90SS316	90	SS 316

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.

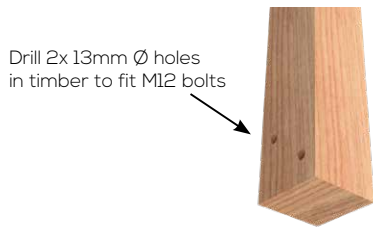




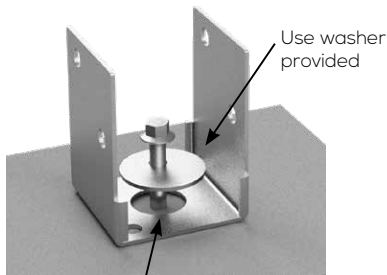
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INSTALLATION GUIDE AND BOLT FIXING SCHEDULE

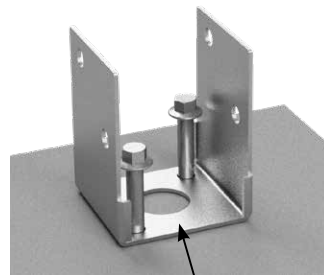


METHOD 1

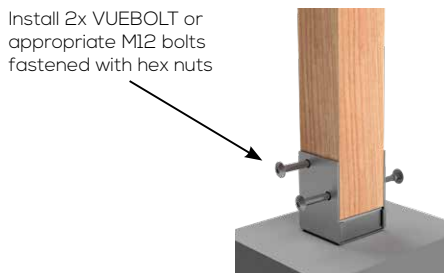
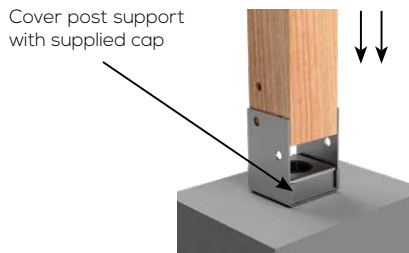


Install 1x M12 concrete bolt or equivalent to ground

METHOD 2



Install 2x M12 concrete bolts or equivalent to ground



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 capacities for Stainless Steel 90mm Bolt Down Post Support

Load Case	Design Capacity, N _{dj} (kN)		
	JD3	JD4	JD5
Uplift capacity	10.3	8.3	7.2

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. Design Capacity in Table 1 applies to VUETRADE Stainless Steel 90mm Bolt Down Post Supports where 2x M12 SS bolts are installed and tightly fastened with nuts through saddles.
4. Design capacity for post supports bolted to concrete assume that there is sufficient anchorage in the concrete to resist the pull-out force imposed by wind loading.
5. Timber post dimensions must have minimum dimensions of 90mm by 90mm section and shall be installed flat to the base of the post support.
6. Design capacities in Table 1 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*.
7. 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.
8. 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.

