VUETRADE for the builder

Timber Connectors
Technical Data Sheet

STAINLESS STEEL T-BLADE POST SUPPORTS

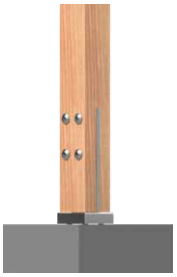
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Compliant with the requirements of AS1720.

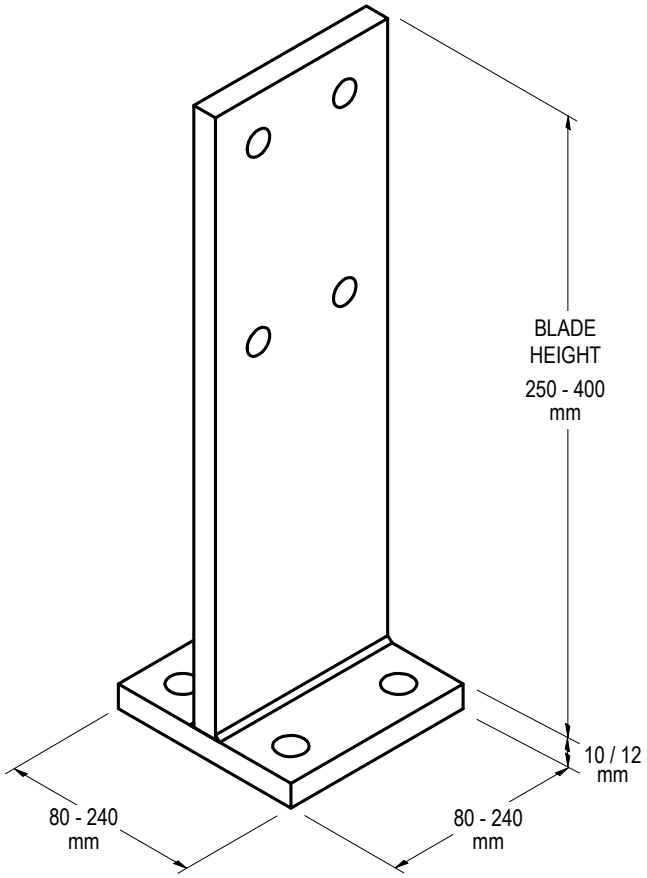
304 STAINLESS STEEL

316 STAINLESS STEEL

BOLTED TO CONCRETE







APPLICATION

Stainless Steel T-Blade Post Supports are brackets ideal for concealed, bolted fixing of feature timber posts on the coast.

SPECIFICATION

VUETRADE Stainless Steel T-Blade Post Supports are made from 10 or 12mm thick steel and are available in two different materials, SS304 and SS316.

FASTENERS

Blade: 4x Stainless Steel VUEBOLT or appropriate M12 / M16 / M20 bolts with hex nuts*

Base: 4x stainless steel M12 / M16 / M20 concrete bolts or equivalent*

* Based on product size.

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

See installation guide for full fastening details.

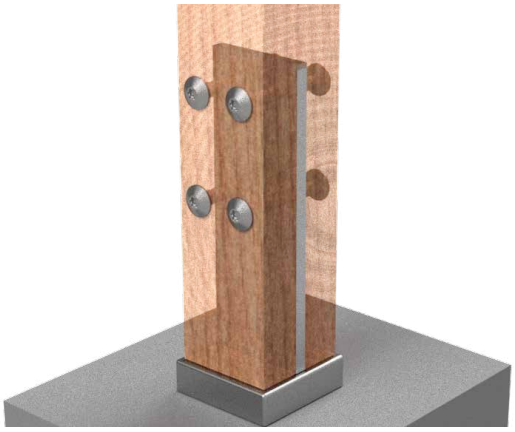
SIZES

Table 1: Stainless Steel T-Blade Product Sizes

Product Code	Blade Height (mm)	Base Size (mm x mm)	Post Size Suitability (mm)	Bolt Size	Box Qty
VBPTB90100SS	250	80 x 80	90 – 100	M12	6
VBPTB115140SS	275	110 x 110	115 – 140	M16	6
VBPTB150180SS	300	140 x 140	150 – 180	M16	4
VBPTB180200SS	350	180 x 180	180 – 250	M16	2
VBPTB250350SS	400	240 x 240	250 - 350	M20	1

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.



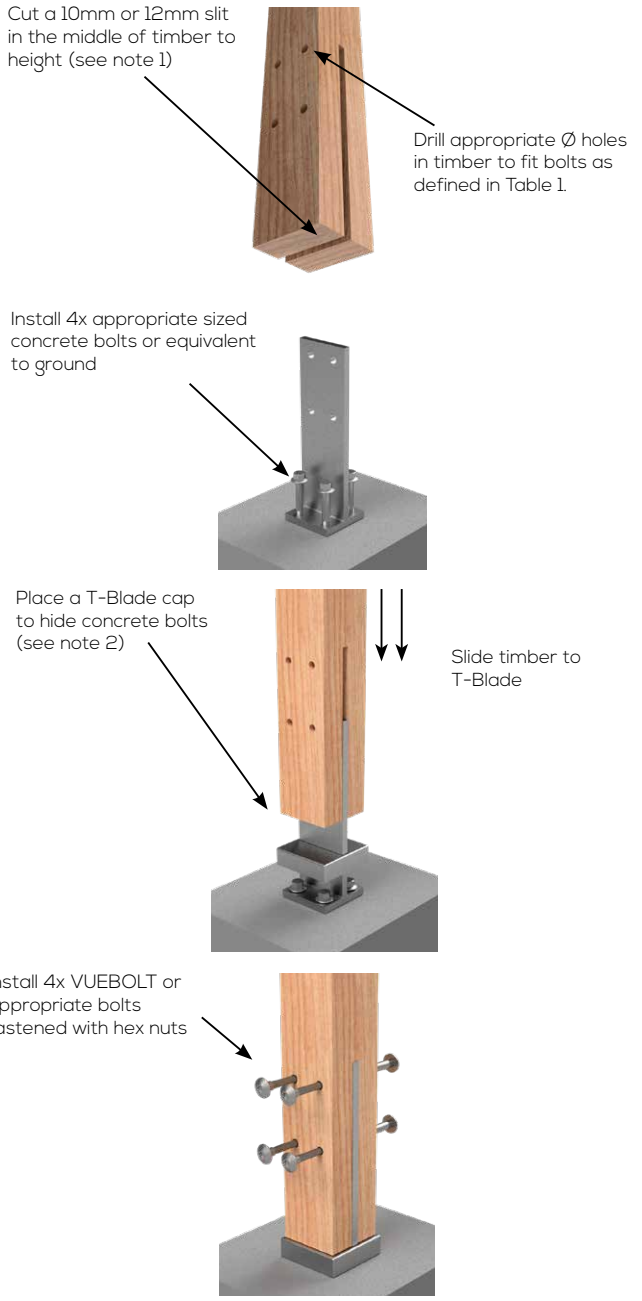
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Bellevue Group Australasia are continuously working to develop and improve our product range. We reserve the right to change specifications, etc. without notice.

STAINLESS STEEL T-BLADE POST SUPPORTS

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INSTALLATION GUIDE AND BOLT FIXING SCHEDULE

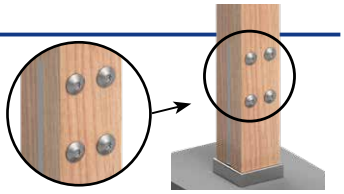


NOTES:

1. VUETRADE has prepared a comprehensive cutting schedule for all sizes of T-Blade post supports containing precise cutting and drilling measurements. Refer to the VUETRADE T-Blade Post Support webpage to access the cutting schedule.
2. T-Blade cap sold separately, VUETRADE recommends fitting T-Blade caps on T-Blade for concealed finish. Visit the VUETRADE T-Blade cap page here for more information.
3. VUEBOLT may be used as an alternative to standard bolts when fixing post support to timber posts for a concealed and smooth finish.

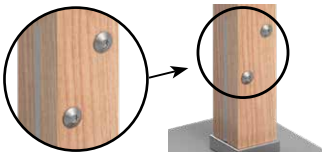
DESIGN CAPACITY DATA

Table 2: Design capacity of Stainless Steel T-Blade Post Support fixed with 4x bolts on various timber joint groups



Joint Group	J3	J4	J5	JD3	JD4	JD5
M12 Bolt	47.4	37.7	32.6	57.0	47.4	41.4
M16 Bolt	57.0	57.0	57.0	57.0	57.0	57.0
M20 Bolt	57.0	57.0	57.0	57.0	57.0	57.0

Table 3: Design capacity of Stainless Steel T-Blade Post Support fixed with 2x bolts on various timber joint groups



Joint Group	J3	J4	J5	JD3	JD4	JD5
M12 Bolt	23.7	18.8	16.3	29.5	23.7	20.7
M16 Bolt	42.3	33.3	28.8	52.3	42.3	36.7
M20 Bolt	57.0	50.8	42.4	57.0	57.0	57.0

NOTES:

1. Design capacities in the above tables apply to VUETRADE Stainless Steel T-Blade Post Supports where SS VUEBOLTS / appropriate bolts are installed and tightly fastened with hex nuts.
2. Timber posts must have minimum dimensions of 90mm by 90mm section.
3. Footings by others.
   a. Design capacities for post supports bolted or cast into concrete assumed that there is sufficient anchorage to resist wind uplift.
   b. Design capacity of this 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.
4. Design capacities in the above tables are for wind uplift (vertical force direction) only and are obtained under strict in-house test conditions defined by AS1649:2025 – *Timber - Methods of test for mechanical fasteners and connectors* & uplift capacity requirements outlined in AS1720.1-2010 – *Timber structures, Part 1: Design methods*.
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.
7. 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 in the above tables are modified by multiplying 0.941 and 0.882 respectively.
8. Two fixing bolts may be used instead of four, however usability of two bolts must be verified by a structural engineer.
9. If fixing using two bolts, bolts should be fixed using non-adjacent bolt holes (use holes diagonally as shown in figure above).

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