VUETRADE for the builder

Timber Connectors
Technical Data Sheet

# STAINLESS STEEL T-BLADE POST SUPPORT WITH LEG

OCT26

Compliant with the requirements of AS1720.

304 STAINLESS STEEL

316 STAINLESS STEEL

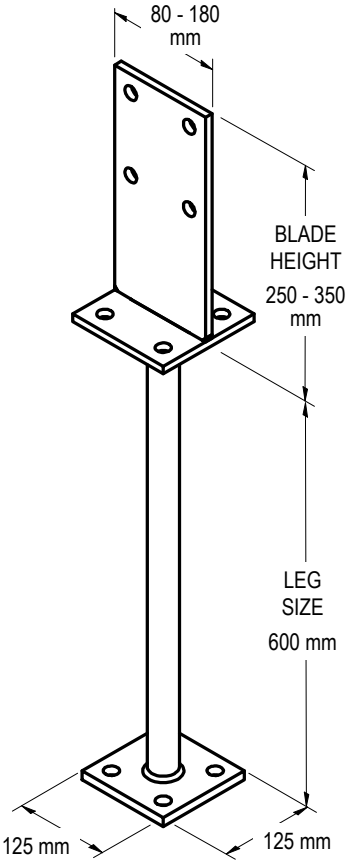


BOLTED TO CONCRETE



CAST INTO CONCRETE






## APPLICATION

Stainless Steel T-Blade Post Supports with Legs are concealed anchors ideal for coastal use, installed by bolting timber posts onto or setting them into concrete.

## SPECIFICATION

VUETRADE Stainless Steel T-Blade Post Supports are 600mm long x 35 or 73mm diameter leg and available in SS304 or SS316.

## FASTENERS

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

**Base:** 4x stainless steel M12 / M16 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.

## SIZES

All VUETRADE T-Blade Post Supports are 10mm in thickness.

| Product Code | Blade Height (mm) | Base Size (mm x mm) | Suits Post Size (mm) | Bolt Size | Leg Dimensions (mm) |
|---|---|---|---|---|---|
| VHDBLPS 60080SS | 250 | 80 x 80 | 90-100 | M12 | 600 x 35Ø |
| VHDBLPS 600110SS | 275 | 110 x 110 | 115-140 | M16 | 600 x 35Ø |
| VHDBLPS 600140SS | 300 | 140 x 140 | 150-180 | M16 | 600 x 35Ø solid leg |
| VHDBLPS 600180SS | 350 | 180 x 180 | 180-250 | M16 | 600 x 73Ø |

* Stainless Steel 316 and custom sizes are also available, refer to the VUETRADE Stainless Steel T-Blade Post Support with Leg webpage.

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.



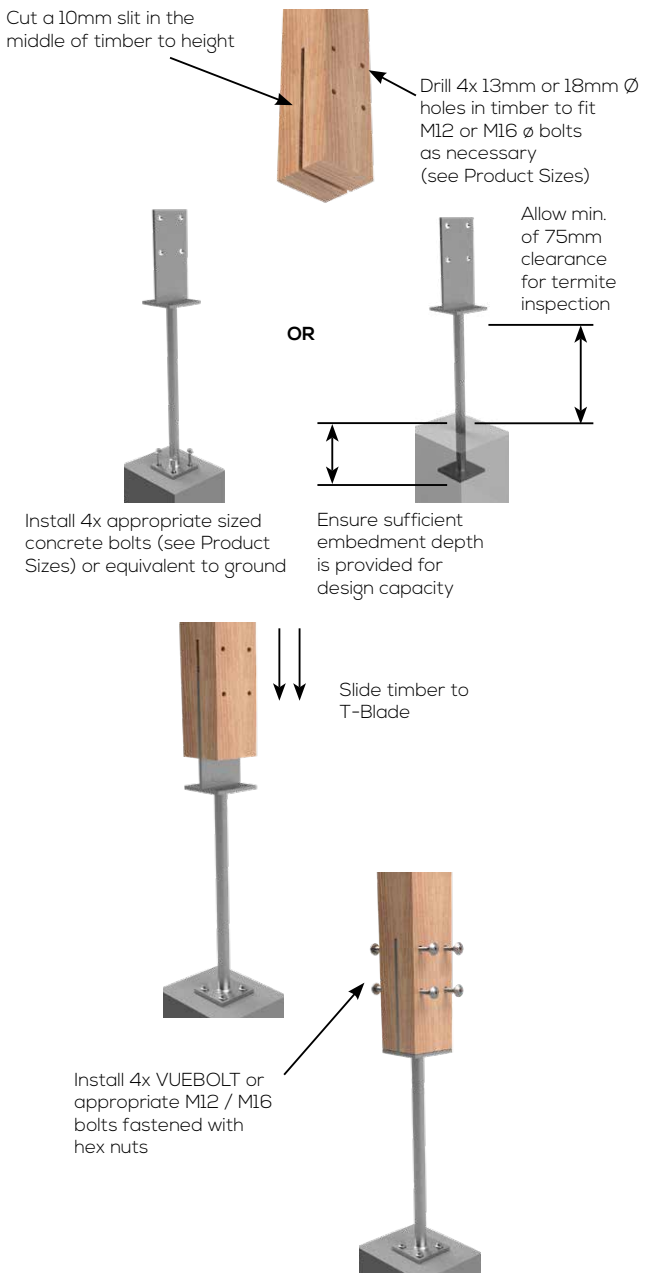
technical@bellevuegroup.com.au
1300 850 520 www.vuetrade.com

**VUETRADE Timber Connectors** is a division of **Bellevue Group Australasia**.
**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 SUPPORT WITH LEG

OCT26

## INSTALLATION GUIDE AND BOLT FIXING SCHEDULE




NOTES:

1. Embedment depth of the T-Blade post support should be determined and calculated by a Structural Engineer in order 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.*
3. Use only Stainless Steel bolts when fastening with a Stainless Steel post support; do not use galvanised bolts as it may lead to accelerated corrosion to the post support and the bolts.

## DESIGN CAPACITY DATA

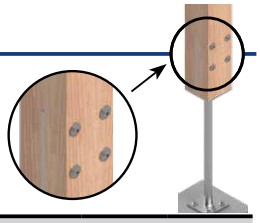


*Table 1: Design capacity of Stainless Steel T-Blade Post Support with Leg fixed with 4x bolts on various timber joint groups*

| 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 |

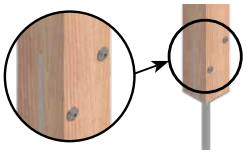


*Table 2: Design capacity of Stainless Steel T-Blade Post Support with Leg fixed with 2x bolts on various timber joint groups*

| 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 |

NOTES:

1. Design capacities in the above tables apply to VUETRADE Stainless Steel T-Blade with Leg 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 and shall be installed flat to the base of the post support.
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).



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

**VUETRADE Timber Connectors** is a division of **Bellevue Group Australasia**.
**Bellevue Group Australasia** are continuously working to develop and improve our product range. We reserve the right to change specifications, etc. without notice.