VUETRADE for the builder

Timber Connectors
Technical Data Sheet

GALVANISED T-BLADE POST SUPPORT WITH ADJUSTABLE LEG

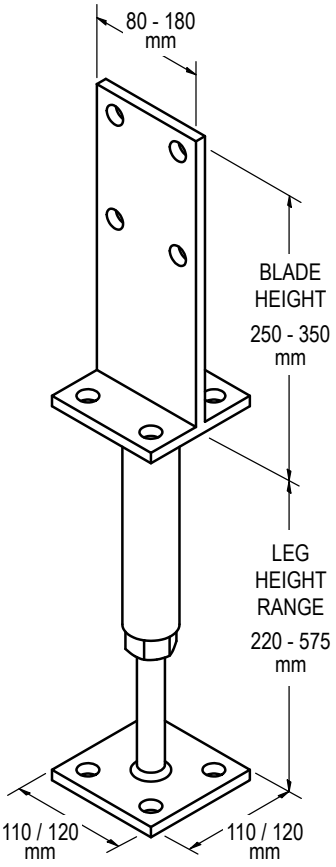
APR25

Compliant with the requirements of AS1720.

G GALVANISED

BOLTED TO CONCRETE

CAST INTO CONCRETE



APPLICATION

VUETRADE T-Blade Post Supports with Adjustable Legs are strong, conveniently adjustable connectors ideal for fixing timber posts, by bolting onto or setting into concrete.

SPECIFICATION

VUETRADE Galvanised T-Blade Post Supports are manufactured in G300 steel and corrosion protected with Hot Dipped Galvanised.

FASTENERS

Saddle: 4x Zinc-Nickel Coated VUEBOLT or appropriate M12 / M16 bolts with hex nuts*

Base: 4x M16 concrete bolts or equivalent

* Based on product size.

SIZES

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

Product Code	Blade Height (mm)	Base Size (mm x mm)	Suits Post Size (mm)	Blade Bolt Size	Leg Height Range (mm)
VHDTRTB 90100	250	80 x 80	90-100	M12	220 - 350
VHDTRTB 115140	275	110 x 110	115-140	M16	250 - 405
VHDTRTB 150180	300	140 x 140	150-180	M16	280 - 460
VHDTRTB 180200	350	180 x 180	180-250	M16	340 - 575

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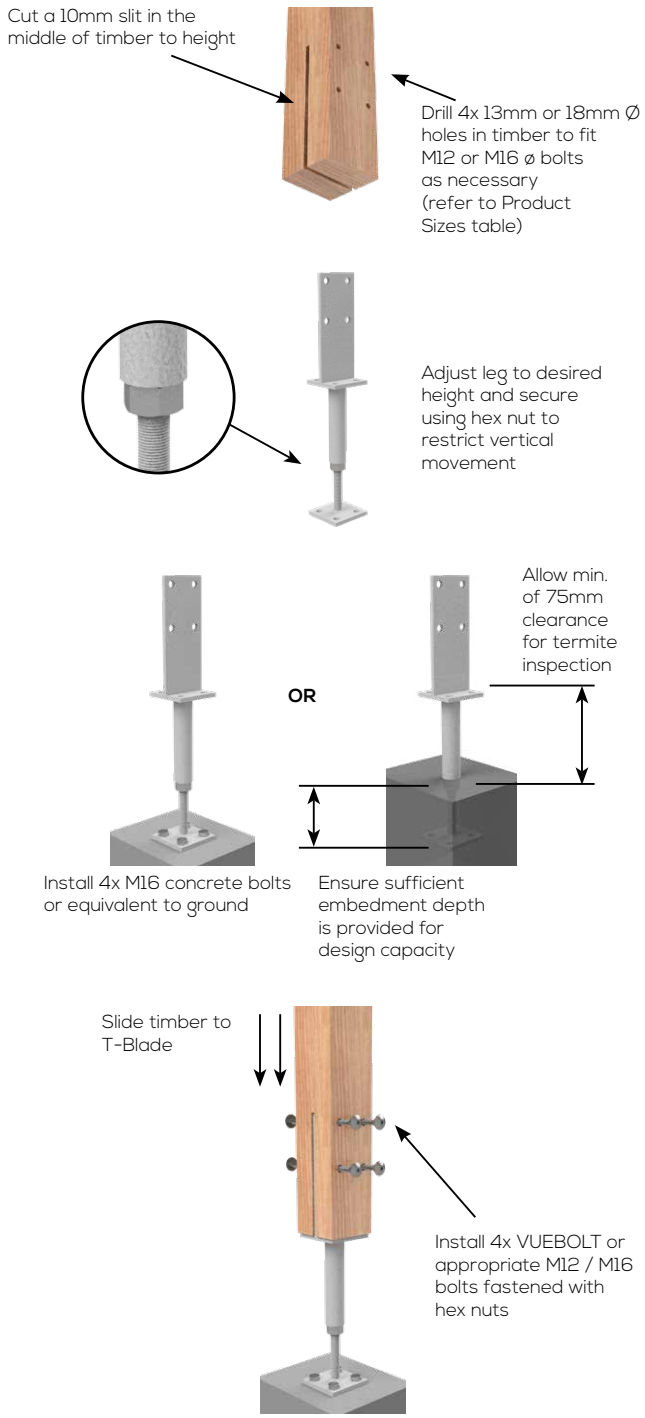
INSTALLATION GUIDE AND BOLT FIXING SCHEDULE

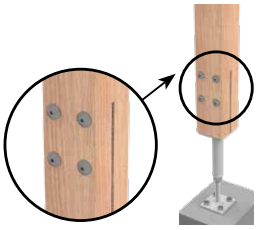


NOTES:

1. Embedment depth of the T-Blade post support should be determined and designed 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.*

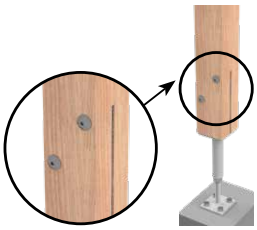
DESIGN CAPACITY DATA

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



Joint Group	JD3	JD4	JD5
M12 Bolt	57.0	47.4	41.4
M16 Bolt	57.0	57.0	57.0

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



Joint Group	JD3	JD4	JD5
M12 Bolt	29.5	23.7	20.7
M16 Bolt	52.3	42.3	36.7

NOTES:

1. Design capacities in the above tables may be limited by the withdrawal tensile capacity of concrete bolts used to fasten the T-Blade post support to concrete ground. Ensure that suitable concrete bolts are used for above design capacity to be valid, otherwise reduce design capacities appropriately.
2. The design capacity of Galvanised T-Blade with Adjustable Leg is capped at 57kN.
3. Design dead loads and live load will be governed by the capacity of timber post. However at no condition that the threaded T-blade Post Support should have dead loads and live loads exceeding 37kN.
4. Modification factors k1 for different load cases are adopted from AS1720.1-2010.
5. 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 from the table are multiplied by 0.941 and 0.882 respectively.
6. 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. Two bolts may be used instead of four, however strength verification must be conducted by a structural engineer to ensure that the two bolt usage is acceptable.
8. 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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