

## CORRECT INSTALLATION OF POST SUPPORTS ON DECK FOOTINGS

Depending on the load and dimensions of the deck, footing requirements and measurements do vary. These requirements include the depth and diameter of each individual footing and the distance between them. All of these information is available in AS 1684 and AS 2870. However, a quicker and cheaper alternative is enquire with the local building authority, to save the hassle of buying and going through the Australian Standards.

There are two different ways of casting concrete footings.

1. **Method 1: Embed a VueTrade™ Post Support into wet concrete.** A 75mm minimum clearance between the post to the base support is required by the Building Codes of Australia (BCA) and Australian Standards, illustrated in Figure 1 and the stirrup needs to extend to at least 100mm into the wet concrete to be able to achieve its respective design capacities. The 75mm clearance acts as a termite inspection zone for local building authorities and also to increase the lifespan of the post. Most common error occurs when the galvanised post stirrups are embedded into the concrete without clearance from the base which causes the timber posts to be in direct contact with the concrete. Concrete absorbs moisture, keeping the posts moist. This can potentially cause premature rotting in the timber post which results in a decreased performance its structural integrity. A list of VueTrade™ products are tabulated in Table 1.
2. **Method 2: Embed the post into the concrete footing.** To do so, BCA states that the holes for the embedded posts is filled with 100mm depth of coarse gravel before backfilling with concrete, shown in Figure 1. **However, this method is not recommended as only specific species of timber are allowed to be embedded into wet concrete.**

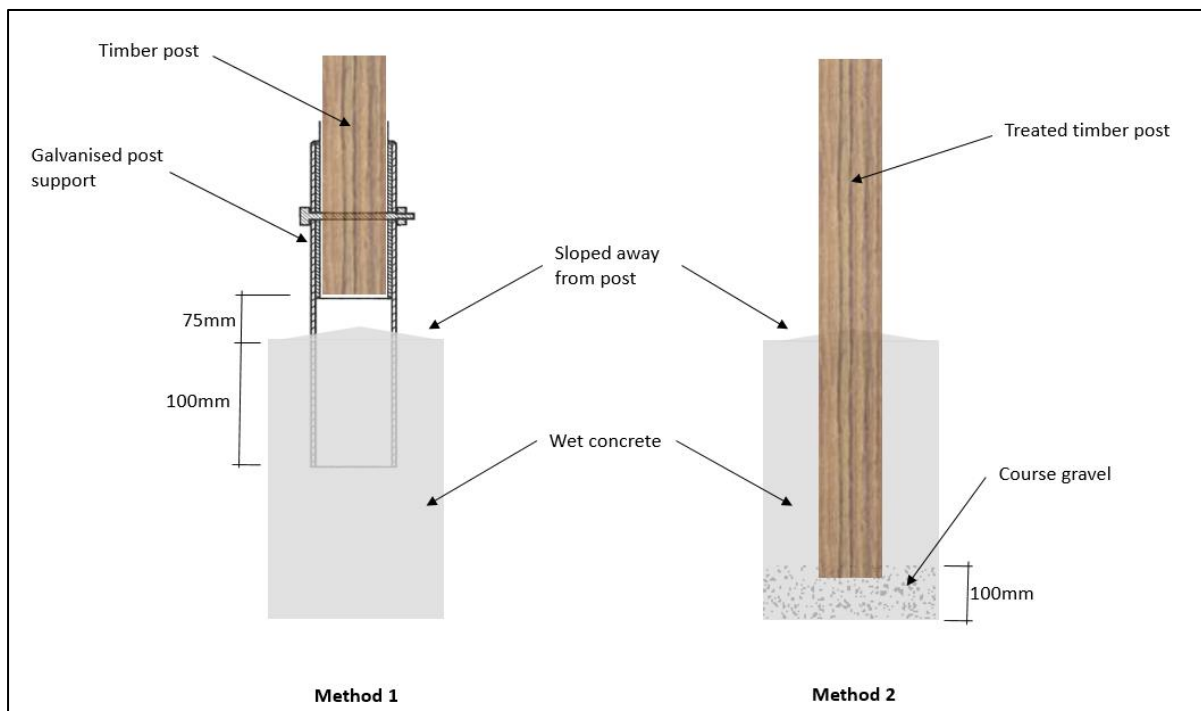







Figure 1: Two different methods of casting concrete footings. Note: figures not drawn to scale.

VueTrade™ Post Supports either have hot dipped galvanised coatings or made of 304 stainless steel. Additional information on VueTrade™ Post Supports is available at [www.vuetrade.com](http://www.vuetrade.com). For more information about decks and footings, please refer to AS1684 and AS2870.

Table 1: VueTrade™ Post Supports

Purpose	Existing Concrete Substrate		Set into Wet Concrete		
<b>VueTrade™ Products</b>	Bolt Down Post Supports 	T Blade Post Supports 	Full Stirrup Post Supports 	Cyclonic Post Supports 	Bladed Post Supports 
<b>Dimensions Available</b>	<b>Galvanised</b> Stirrup Size: 90mm, 100mm, 115mm, 125mm <b>Stainless Steel</b> Stirrup Size: 90mm, 100mm, 115mm, 125mm 135mm, 200mm  More information on <a href="http://www.vuetrade.com">www.vuetrade.com</a>	<b>Galvanised</b> Size (mm): Four sizes to suit posts from 90 to 200 square <b>Stainless Steel</b> Size (mm): Four sizes to suit posts from 90 to 200 square  More information on <a href="http://www.vuetrade.com">www.vuetrade.com</a>	Wide range of sizes in both Galvanised and Stainless Steel available.  More information on <a href="http://www.vuetrade.com">www.vuetrade.com</a>	Wide range of sizes in both Galvanised and Stainless Steel available.  More information on <a href="http://www.vuetrade.com">www.vuetrade.com</a>	<b>Galvanised</b> Heights: 125mm, 300mm <b>Stainless Steel</b> Heights: 125mm, 300mm  More information on <a href="http://www.vuetrade.com">www.vuetrade.com</a>

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