

Techlam Glulaminated Timber Products

STRUCTURAL LAMINATED POSTS INSTALLATION GUIDE

Version 1.0 January 2026

PURPOSE

This guide provides information on installing posts where they are to be used as veranda and foundation posts where these projects fall within the scope of NZS3604:2011.

Dimensions	Treatment	Installation
88 mm x 88 mm - 270 mm x 270 mm (max)	H3.2	Above ground only
	H5	Above and in-ground

KEEP SAFE

Follow simple health and safety practices, including:

- Create a safe working environment that is well organised, tidy, and clear of obstructions.
- Always ensure PPE is worn (eye protection, gloves, dust mask, and safety footwear).
- Always operate tools and equipment strictly in accordance with the supplier's instructions.
- Regularly service tools and equipment to ensure efficient and correct operation.
- Where possible, work in an area that is well ventilated or where mechanical dust extraction is possible. This is especially important if cutting or drilling.
- Where working at height, ensure the correct selection and use of safety equipment.

For further information, refer to www.worksafe.co.nz [<https://www.worksafe.govt.nz/topic-and-industry/construction/>]

SKILLS & EQUIPMENT

To install these posts all that is required are basic carpentry DIY skills and general carpentry tools.

HANDLING & STORAGE

Taking care of the posts when transporting, loading and unloading, and storing will prevent damage to the post and deliver the right final appearance.

Transport horizontally wherever possible and support the posts to avoid them from bowing.

Load and unload by hand or if using a Hiab support with evenly spaced straps. Store the posts on a hard, flat surface, allow air to circulate and protect from the weather.

ABOVE GROUND INSTALLATION

Prepare the post

Cut to required length, create any saw cuts, notches or holes necessary for the building work.

Clean off the post to remove dirt etc. This step will impact on the final appearance of your post. If staining, ensure the posts do not have any water stains. If so sand these off.

Coat all sides, saw cuts, notches and holes with:

- an exterior acrylic primer if the post is to be painted, or
- the first coat of the selected stain.

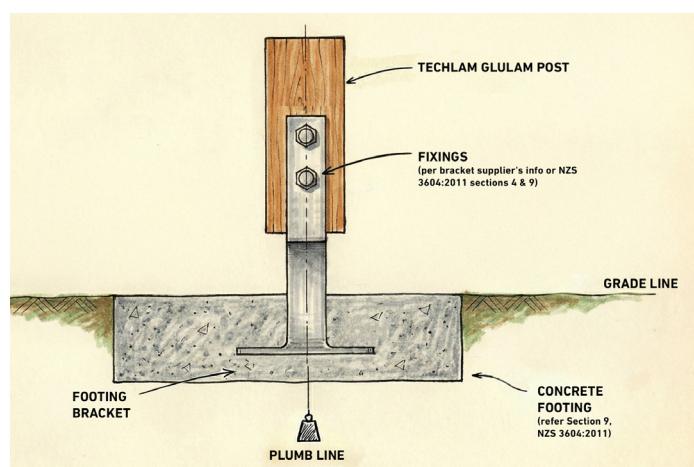
Prepare the footing

The required concrete footing and bracket depends on the project. Refer to Section 9, NZS 3604:2011 for the volume of concrete required. Select a footing bracket to suit the size of the post.

Allow the concrete to cure.

Install the post

Fix the post to the footing bracket according to the bracket supplier's information. Use a level to ensure that the post is vertical. Techlam recommends supporting the post's position if there is a risk of it becoming misaligned during installation.



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BELOW GROUND INSTALLATION

Prepare the post

Cut to required length, create any saw cuts, notches or holes necessary for the building work.

Clean off the post to remove dirt etc. This step will impact on the final appearance of your post. If staining, ensure the posts do not have any water stains. If so sand these off.

When selecting paint or stain establish that the product is compatible with a bitumen-based coating.

Coat the above ground post sides, saw cuts, notches and holes with,

- an exterior acrylic primer if the post is to be painted, or
- the first coat of the selected stain.

Apply to the in-ground portion of the post a bitumen-based coating.

Prepare the footing

The depth of the footing is project specific and must be in accordance with NZS3604 section 6.0 or as required by the design engineer.

Concrete must be Grade N20 (≥ 20 MPa) and must be prepared and cured in accordance with NZS3104:2003 as

a minimum or the concrete supplier's instructions. Place a minimum of 100 mm of concrete (or more if required by the design engineer) and allow to cure.

Position the Post

Ensure the post is plumb (vertically aligned) in both directions.

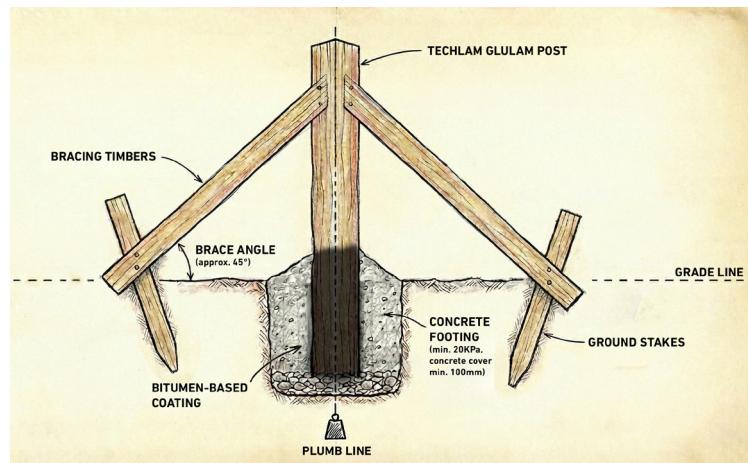
Centre the post within the footing. Ensure a 100 mm of concrete cover between the post and the outer edge of the footing.

Brace the post using diagonal timber members with minimal fastenings to allow for easy removal or repair if required.

Complete the footing

Fill the remainder of the footing with concrete. Finish by sloping the concrete away from the post.

Allow the concrete to cure before removing the bracing.



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