

Certificate no: CMNZ10018

Version: 03

Original issue date: 02 December 2019

Version date: 29 May 2025

1. Certificate Holder Details



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Complaints: The complaints process for this certificate can be found here:

<https://www.branz.co.nz/codemark-info/complaints-and-appeals/>

Product Certificate

Prolam H5 Glue Laminated Posts

3. Description of Building Method or Product

Prolam H5 Glue Laminated Posts are glue laminated radiata pine structural timber posts used to support above ground, applied loads.

Prolam H5 Glue Laminated Posts are available in sizes ranging from 88 x 88 mm to 260 x 260 mm and are available in structural grades ranging between PL8 and PL12, which are equivalent to grades GL8 and GL12 as per AS/NZS 1328. Stock lengths range between 2,400 and 7,200 mm with other lengths available by order.

Prolam H5 Glue Laminated Posts are produced to visual grade or can be supplied bandsawn, pre-primed, or sanded and sealed.

Prolam H5 Glue Laminated Posts are identified by identification tags that contain a detailed product specification stapled to the ends of each individual post.

4. Intended use of Building Method or Product

Prolam H5 Glue Laminated Posts are for use as exterior structural posts subject to structural specific engineering design. Prolam H5 Glue Laminated Posts can be installed either using proprietary cast-in structural post support brackets or with the posts directly encased in concrete footings below ground.

5. New Zealand Building Code Provisions

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4 for the relevant physical conditions of B1.3.3 (a), (b), (g), (h) and (j) [i.e. self-weight, imposed gravity loads arising from use, snow, wind and impact].

Clause B2 DURABILITY: Performance B2.3.1 (a) 50 years.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

6. Conditions and Limitations of Use

When Prolam H5 Glue Laminated Posts are installed directly into concrete below ground, they must be encased by a minimum of 100 mm thickness of concrete to all five sides. The concrete must finish at or above finished ground level. The portion of the post that will be enclosed in concrete shall be coated to prevent the post from absorbing moisture prior to the concrete curing.



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Prolam H5 Posts must be used as specified in NZS 3604 or be subject to specific engineering design using AS/NZS 1170 and, either NZS 3603:1993 or NZS AS 1720.1:2022. Prolam H5 Glue Laminated Posts are suitable as structural posts subject to specific engineering design to AS/NZS 1170. *(Note: Guidance for specific engineering design using Prolam H5 Glue Laminated Posts is given in the Reference Documents.)*

Prolam H5 Glue Laminated Posts shall not be dimensionally altered in any way that results in a reduction of structural dimension. Dimensional stability and strength rely on the width and thickness remaining unchanged.

Structural connection details must be in accordance with NZS 3604, the Prolam structural timber guide 2024, pages 72-74, or to a specific engineering design. Structural connection details are outside the scope of this Product Certificate.

Steel fixings and fastenings in contact with Prolam H5 Glue Laminated Posts shall be selected in accordance with Section 4 of NZS 3604.

All exposed sections of Prolam H5 Glue Laminated Posts must be finished with an exterior grade enamel or acrylic paint system and compatible primer complying with any of Parts 7, 8, 9 or 10 of AS 3730 within 14 days of installation in accordance with the requirements of the Reference Documents.

HANDLING AND STORAGE

Handling and storage of Prolam H5 Glue Laminated Posts is under the control of the installer. The posts must be stacked flat on bearers which extend across the full width of the packs and under cover. Care must be taken to avoid damage to the posts in transit and storage.

If posts are stored near the ground, a plastic layer will need to be placed beneath the bearers so that the posts can stay dry before installation. Keep any unsealed posts wrapped.

Do not expose Prolam H5 Glue Laminated Posts to rapid changes in moisture or temperature. If the posts are stored outside, unwrap the posts and place timber fillets between the posts, then rewrap or cover with a waterproof cover.

INSTALLATION SKILL LEVEL REQUIREMENT

Installation of Prolam H5 Glue Laminated Posts must be completed by, or under the supervision of, a Licensed Building Practitioner with the relevant Licence Class, in accordance with the Reference Documents and this Product Certificate.

REFERENCE DOCUMENTS

This Product Certificate must be read in conjunction with:

- Prolam H5 Posts – Design and install guide, dated November 2022.
- Prolam structural timber guide 2024, only pages relating to Prolam H5 Glue Laminated Posts i.e. pages 5-6, 28-31, 72-74.



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7. Health and Safety Information

Prolam H5 Glue Laminated Posts are preservative treated with chromated copper arsenate (CCA) preservative. Manufacturer's instructions and typical practices for working with, handling and maintaining CCA treated timber should be observed.

8. Basis for Certification

TESTING

- Compliance with NZBC Clause B1 Structure is determined through standards cited within the NZBC Acceptable Solutions and Verification Methods.

EXPERT JUDGEMENT

- Durability and hazardous building materials assessments of Prolam H5 Glue Laminated Posts have been given by BRANZ technical experts.

QUALITY

- The Reference Documents have been examined by BRANZ and found to be satisfactory.
- Site inspections have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.
- The quality of the supply to the market is the responsibility of Prowood Ltd.
- Building designers are responsible for the design of the building, and for the incorporation of Prolam H5 Glue Laminated Posts into their design in accordance with the instructions of Prowood Ltd.
- Quality of installation is the responsibility of the installer in accordance with the instructions of Prowood Ltd.

9. Supporting Documentation for Certification

- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure, 1st Edition, Amendment 21, 2 November 2023.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability, 2nd Edition, Amendment 12, 28 November 2019.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause F2 Hazardous Building Materials, 1st Edition, Amendment 3, 1 January 2017.



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- AS 3730:2006 (R2016) Parts 7, 8, 9 and 10 Guide to the properties of paints for buildings.
- AS 5068:2006 Timber - Finger joints in structural products - Production requirements. (*Reconfirmed 2016.*)
- AS/NZS 1170 Structural design actions.
- AS/NZS 1328.1:1998 Glue laminated structural timber - Part 1: Performance requirements and minimum production requirements.
- AS/NZS 1328.2:1998 Glue laminated structural timber - Part 2: Guidelines for AS/NZS 1328: Part 1 for the selection, production and installation of glued laminated structural timber. (*Standard has been withdrawn but is referenced in NZS 3604:2011.*)
- AS/NZS 1604.1: 2021 Preservation-treated wood-based products - Part 1: Products and treatments.
- BRANZ Durability Opinion No. TP 10567-001 Durability Opinion on Prolam H5 Glue Laminated Posts, dated 22 November 2019.
- Bureau Veritas 'S' Mark Licence, AS/NZS 1328.1:1998 Glue laminated structural timber, Part 1 Performance requirements and minimum production requirements, issued 31/07/2020. Licence Nos. 2931 and 2942.
- Bureau Veritas 'S' Mark Licence, AS 5068:2006 (R2016) Timber - Finger joints in structural products - Production requirements, issued 31/07/2020. Licence Nos. 2932 and 2943.
- Bureau Veritas 'S' Mark Licence, NZS 3640:2003 Chemical Preservation of Round and Sawn Timber, issued 31/07/2020. Licence No. 2944.
- NZS AS 1720.1:2022 Timber structures.
- NZS 3603:1993 Timber structures standard.
- NZS 3604:2011 Timber-framed buildings.
- NZS 3640:2003 Chemical preservation of round and sawn timber.
- Ministry of Business, Innovation and Employment Record of amendments - Acceptable Solutions, Verification Methods and handbooks.
- The Building Regulations 1992.

10. Supporting Information About Description

PRODUCT SPECIFICATION

Prolam H5 Glue Laminated Posts are engineered glue laminated timber structural posts manufactured from radiata pine treated with CCA preservative to hazard class H5. Prolam H5 Glue Laminated Posts are assembled from finger jointed, H5 treated lamina layers glued together using resorcinol phenol formaldehyde resin to make up the final post size. Prolam H5 Glue Laminated Posts are available in structural grades of PL8 and PL12, which are equivalent to grades GL8 and GL12 given in AS/NZS 1328.



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Prolam H5 Glue Laminated Posts are produced to visual grade or appearance grade 'A', which are high visual appearance standards. Prolam H5 Glue Laminated Posts are supplied in a smooth machined finish or can be supplied bandsawn, primed or sanded and sealed. Prolam H5 Glue Laminated Posts shall be painted with an exterior grade enamel or acrylic paint system.

11. Supporting Information About Intended Use

BUILDING CODE

B1 STRUCTURE

Prolam H5 Glue Laminated Posts will resist structural loads likely to be encountered in normal use. The likelihood of impact damage to the posts and the possibility of consequential structural failure should be reviewed at the design stage, and appropriate mitigation should be considered for vulnerable areas.

B2 DURABILITY

Prolam H5 Glue Laminated Posts, when installed and maintained in accordance with the details given in the technical literature, meet code compliance with NZBC Clause B2.3.1 (a) not less than 50 years as a building element that provides structural stability to a building.

F2 HAZARDOUS BUILDING MATERIALS

Prolam H5 Glue Laminated Posts will not present a health hazard to people.

INSTALLATION REQUIREMENTS

Installation must be carried out in accordance with the following:

- Reference Document: Prolam H5 Posts - Design and install guide, dated November 2022.
- The instructions included in the structural design by a Chartered Professional Engineer.

MAINTENANCE REQUIREMENTS

Maintenance required for applied coatings to the posts shall be carried out in accordance with the relevant paint manufacturer's instructions and prescribed recoating intervals.

12. Supporting Information About Conditions and Limitations of Use

All conditions and limitations provided as stated in this Product Certificate.



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Signatures

A handwritten signature in black ink, appearing to read "Falck".

Claire Falck

CEO, BRANZ Limited.

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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