



CODEMARK[®]

Certificate No: BRANZ-CM-1018
Date of Issue: 02 December 2019
Revision Date: 02 December 2022

CERTIFICATE HOLDER



Prowood Limited

283 Waiwhero Road
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Tel: 03 526 7436
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John Woodman
Managing Director
Prowood Limited

CERTIFICATION BODY



BRANZ

BRANZ Limited

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Cheyldra Percy
Chief Executive Officer
BRANZ Limited

PRODUCT CERTIFICATE

THIS IS TO CERTIFY

PROLAM H5 GLUE LAMINATED POSTS

KEY INFORMATION

1. DESCRIPTION OF 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. Stock lengths range between 2400 mm and 7200 mm with other lengths available by order. Prolam H5 Glue Laminated Posts are identified by identification tags that contain a detailed product specification stapled to the ends of each individual post.

2. USE OF 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.

3. COMPLIES WITH THE FOLLOWING PROVISIONS OF THE NEW ZEALAND BUILDING CODE (NZBC)

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.3 (b),(g),(h) and (j) [i.e. 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.

4. CONDITIONS AND LIMITATIONS OF USE

- 4.1 Prolam H5 Glue Laminated Posts are suitable as structural posts subject to specific engineering design to AS/ NZS1170. *Note: Guidance for specific engineering design using Prolam H5 Glue Laminated Posts is given in the product technical literature- see section 6 of this certificate.*
- 4.2 Prolam H5 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.
- 4.3 Structural connection details shall be specifically designed. Structural connection details are outside the scope of this certificate.
- 4.4 Steel fixings and fastenings in contact with Prolam H5 Glue Laminated Posts shall be selected in accordance with section 4 of NZS 3604.
- 4.5 Where installed directly into concrete below ground, Prolam H5 Glue Laminated Posts shall be encased by a minimum of 100 mm thickness of concrete to all sides and concrete shall finish at or above finished ground level.
- 4.6 All exposed sections of post 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 technical literature.

The Certificate Holder must maintain compliance with the conditions set out in Regulation 15 of the Building (Product Certification) Regulations 2008.

This Certificate is issued by BRANZ Limited, an independent certification body accredited by the product certification body appointed by the Chief Executive of the Ministry of Business, Innovation and Employment (MBIE) under the Building Act 2004. MBIE does not in any way warrant, guarantee or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. MBIE disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the building method(s) or products(s) referred to in this certificate.

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5. 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.

6. REFERENCE DOCUMENTS

This Product Certificate must be read in conjunction with:

- Prolam Structural Timber Guide – 2019

SCHEDULE: INFORMATION THAT SUPPORTS KEY INFORMATION

7. SUPPORTING INFORMATION ABOUT DESCRIPTION OF PRODUCT

PRODUCT SPECIFICATION

Prolam H5 Glue Laminated Posts are engineered glue laminated timber structural posts manufactured from Radiata Pine treated with chromated copper arsenate (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 PL8 and PL17, which are equivalent to grades GL8 and GL17 given in AS/NZS 1328.

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.

8. SUPPORTING INFORMATION ABOUT INTENDED USE OF PRODUCT

INSTALLATION REQUIREMENTS

Installation must be carried out in accordance with the following:

- Technical Literature: Prolam Structural Timber Guide – 2019.
- 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.

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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, meets 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.

9. SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE

All conditions and limitations provided as stated in this product certificate.

10. BASIS FOR CODEMARK CERTIFICATION

The following evaluations have been carried out on Prolam H5 Glue Laminated Posts to determine compliance with the NZBC:

- Compliance with NZBC Clause B1 [Structure] is determined through standards cited within the Acceptable Solutions and Verification Methods.
- A durability and hazardous building materials assessment has been undertaken of Prolam H5 Glue Laminated Posts by BRANZ technical experts.
- Site visits have been carried out by BRANZ to assess the practicability of installation, and to examine completed installations.
- The referenced Technical Literature has been examined by BRANZ and found to be satisfactory.
- The quality of supply to the market is the responsibility of Prowood Limited.
- 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 Limited.
- Quality of installation is the responsibility of the installer in accordance with the instructions of Prowood Limited.

11. DOCUMENTATION SUPPORTING CERTIFICATION

- AS/NZS 1170 Structural design actions.
- AS/NZS 1328: 1998 part 1 and 2 Glued laminated structural timber.
- AS 3730: 2006 [R2016] parts 7,8,9 and 10 Guide to the properties of paints for buildings.
- 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 for Compliance Documents and Handbooks.
- The Building Regulations 1992.

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12. CONDITIONS RELATING TO NOTIFICATION

The certificate holder [Prowood Limited] must notify the product certification body [BRANZ] in writing, of any intended change to any of the following particulars:

- the name, address, or contact details of the certificate holder;
- any address of a location where a certified product is produced or manufactured.

The certificate holder shall notify the product certification body in writing of any intended change, modification, or alteration to any of the following:

- the certified building method or product;
- the method of its production or manufacture;
- the product quality plan prepared in respect of the certified building method or product;
- the application or installation instructions for the certified building method or product;
- any documentation relating to the use and maintenance of the certified building method or product.

If the certificate holder has any reason to suspect that the certified building method or product does not comply with the Building Code, the certificate holder shall notify the product certification body in writing of the reason for that suspicion.

If the certificate holder or the product certification body finds that a certified building method or product that has been released on the market does not comply with the Building Code, the certificate holder shall disclose that fact in a published disclosure statement in a form that is acceptable to the product certification body and to MBIE.

If the certificate is suspended or revoked, the certificate holder—

- shall notify all customers to whom the building method or product is regularly supplied; and
- immediately cease using the certificate, the mark of conformity, and any reference to the number of this certificate.

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