

PRODUCT TECHNICAL STATEMENT & BUILDING PRODUCT INFORMATION SHEET

CLASS I
NOVEMBER 2023

Product Name: LASERFRAME

The logo for Laserframe, featuring the word "Laserframe" in a bold, blue, sans-serif font. To the right of the text is a small, stylized graphic of a tree or plant with three leaves.

Application: SPECIFIED FOR RESIDENTIAL APPLICATIONS
THROUGH NZS 3604 OR SPECIFIC DESIGN

Product Description and Intended Use:

Laserframe structural timber is manufactured by Carter Holt Harvey Building Products Limited, trading as CHH Timber, for use as residential and commercial building framing. Laserframe is a range of sawn timber available in SG6, SG8 and SG10 in a variety of sizes and lengths, both H1.2 Boron treated and H3.2 CCA treated. Grades and properties from NZS 3603 Timber Structures (NZS 3603) have been confirmed from testing conducted by CSIRO, The University of Auckland, SCION and internally by CHH Timber as applicable to Laserframe.

Laserframe, as specified in NZS 3604 Timber Framed Buildings (NZS 3604), and designIT[®] for houses software, is suitable for use as structural members in the framing of houses and similar buildings within the scope of NZS 3604.

Laserframe may also be used as a structural framing member for specifically designed building components in accordance with NZS 3603 when designed by a Chartered Professional Engineer.

To ensure the durability of Laserframe used in residential applications, the requirements of NZS 3602 Timber and Wood-Based Products for Use in Building (NZS 3602) as modified by Clause B2 (Durability) of the New Zealand Building Code (NZBC) must be satisfied.

Product Identifier:

All Laserframe members are marked in accordance with the requirements of AS/NZS 1748.1, Timber – Solid – Stress-graded for structural purposes Part 1:General Requirements, and include the brand name Laserframe. An example of Laserframe excluding treatment is given below, for further information refer to the Laserframe Product Guide:

S68 Laser *frame* chh.com

90x45 DD:MM:YY hh:mm

AS/NZS 1748 KD 015

994 II HL.2 QR 123456789

Branding specific to treatment in accordance with NZS 3640, Chemical preservation of round and sawn timber, is included where H1.2 or H3.2 treatment has been applied.

Place of manufacture:

Kawerau and Nelson, with some treatment processes completed at Kinleith, New Zealand

Legal and trading name of the manufacturer:

Carter Holt Harvey Building Products Limited, trading as CHH Timber

Address for Service:

173 Captain Springs Road, Onehunga
Auckland 1061, New Zealand

Website: www.chhwoodproducts.co.nz

Email Address: info@chhwoodproducts.co.nz

Phone Number: 0800 746 399

NZBN: 9429041671504

Relevant New Zealand Building Code Clauses:

- Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.3 (a, b, c, g, h, q), B1.3.4(d)
- Clause B2 Durability: Performance B2.3.1 when used and treated to the requirements of NZS 3602 as modified by B2/AS1
- Clause C Fire Performance: C1 – C6
- Clause E2 External Moisture: E2.3.4
- Clause F2 Hazardous Building Materials: F2.3.1
- Clause G6 Airborne and Impact Sound: G6.3.1, G6.3.2

Statement on how the building product is expected to contribute to compliance:

Laserframe will, if specified and employed in accordance with the prescribed span, loading and installation requirements, assist in meeting the following provisions of the NZBC:

Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.3 (a, b, c, g, h, q), B1.3.4(d)

The design properties of Laserframe are stress graded to Australian/New Zealand Standard 1748 Series, Timber – Solid – Stress-graded for structural purposes with properties determined using Australian / New Zealand Standard 4063: Characterisation of structural timber and verified to New Zealand Standard 3622: Verification of timber properties for use with NZS 3603 and NZS 3604.

Clause B2 Durability: Performance B2.3.1 when used and treated to the requirements of NZS 3602 as modified by B2/AS1

Laserframe is available treated to levels that meet the requirements of Clause B2 (Durability) of the NZBC. As such, if the product is treated and used in accordance with the required treatment levels prescribed in NZS 3602, as modified by B2/AS1 Clause 3.2.2, it will form part of an Acceptable Solution and comply with the requirements of the NZBC.

Clause C Fire Performance: C1 – C6

Laserframe members may be used as part of a fire resistant solution when used in accordance with GIB® Fire Rated Systems that provide passive fire protection, in accordance with the requirements of NZBC Clauses C1 - C6 – Protection from Fire. Refer “GIB Fire Rated Systems Specification and Installation Manual”.

Clause E2 External Moisture: E2.3.4

Laserframe may be provided treated to the requirements of NZS 3602 when sub floor ventilation and ground cover requirements comply with NZS 3604, Clause 6.14 Prevention of dampness.

Clause F2 Hazardous Building Materials: F2.3.1

Laserframe meets this requirement and will not present a health hazard to people.

Clause G6 Airborne and Impact Sound: G6.3.1, G6.3.2

Laserframe can be used as a part of framing solutions for walls and floors (Acceptable Solution G6/AS1).

Limitations on the use of the building product:

- Laserframe members may not be used in situations where they may be in direct contact with the ground.
- Please refer to the current Laserframe literature for information, limitations, and cautions regarding the storage, handling, installation, usage, and maintenance of Laserframe.

Design requirements that would support the appropriate use of the building product:

Laserframe, as specified in NZS 3604 Timber Framed Buildings (NZS 3604), and designIT® for houses software, is suitable for use as structural members in the framing of houses and similar buildings within the scope of NZS 3604.

Laserframe may also be used as a structural framing member for specifically designed building components in accordance with NZS 3603 (Verification Method BI/VM1) when designed by a Chartered Professional Engineer.

Installation requirements:

Laserframe is to be installed with good building practice, sound design principles, and in accordance with the specifications and installation details described in NZS 3604 or as detailed by the Chartered Professional Engineer, and good building practice.

Maintenance Requirements:

Laserframe members will not normally require maintenance. However, in circumstances where coatings have been applied, maintain in accordance with coating manufacturers requirements.

Is the building product/building product line subject to warning or ban under section 26 of the Building Act 2004?

Yes No

Date: 21st November 2023

Additional Information:

Further to the minimum regulatory requirements for Building Product information Sheets, CHH Timber also provides the following additional information in relation to Quality Assurance, Sustainability, Service Life and Product Support.

Quality Assurance:

CHH Timber has strict quality assurance processes in place to monitor that Laserframe adequately satisfies structural and visual requirements. Bureau Veritas has been contracted to undertake independent, third party auditing of the Machine Stress Grading processes at CHH Timber's structural mill sites. Independent audit inspections are carried out bi-annually and include:

- Audit of the Machine Stress Grading process and procedures
- Assessing the competence of personnel in relation to skills and knowledge requirements
- Verification of the calibration of testing equipment

CHH Timber also has quality assurance processes in place to monitor that its range of products satisfy the penetration and retention requirements for treatment in accordance with NZS 3640. Independent Verification Services (IVS) has been contracted to undertake independent, third-party auditing of CHH Timber's internal treatment processes at our treatment sites. Independent audit inspections are carried out bi-annually and include an audit of the treatment process and procedures. IVS also complete the verification of each treatment batch/charge for compliance with NZS 3640.

Sustainability:

Carter Holt Harvey's commitment to the environment is fundamental to its business. From the use of plantation forests to promoting policies minimizing waste and emissions, CHH is proud of the sustainable base for its products.

CHH Timber takes its environmental responsibility seriously with each facility having waste handling procedures to optimise recovery and manage the use of arisings whilst limiting waste. This starts with the use of only radiata pine sourced from sustainably managed renewable plantation and includes the application of optimisation algorithms for saw patterns and log rounding to enhance finished goods recovery, as well as the development of markets for the downgrading of arising product for use in industrial applications including packaging. All waste product derived is assessed for downstream applications including bark, boiler fuel and/or sold for use in wood fibre products.

BIOMASS-FUELS

CHH Timber Nelson sawmill actively uses waste material arising from processing activities as an important energy source to generate heat used in kiln drying of timber.

GEOHERMAL ENERGY

Where possible, CHH takes advantage of the opportunity to use earth's natural resources. Located near one of New Zealand's geothermal energy fields, CHH Timber Kawerau sawmill utilises geothermal energy as part of its kiln drying process.

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

The CHH Timber EPD is a demonstration of the continual focus and commitment to sustainability, through a science driven, independently verifiable process with standard methodology across all products.

View and Download CHH Timber EPD

<https://chhwoodproducts.co.nz/assets/CHHTimberEPDCurrent.pdf>

ENVIRONMENT, SOCIAL AND GOVERNANCE (ESG)

Carter Holt Harvey has developed a new ESG reporting programme. The company has focused on setting out what its stakeholders have identified as material ESG issues, how it manages, or plans to manage those issues, and key environmental indicators. In the future, Carter Holt Harvey will celebrate its ESG achievements and acknowledge those areas where it needs to improve, keeping on a path of steady improvement that will further strengthen Carter Holt Harvey in the years to come.

View and Download the ESG Report -

<https://chhply.co.nz/assets/CarterHoltHarveyESGReportCurrent.pdf>

FSC® AND SUSTAINABILITY ACCREDITATIONS

CHH Timber sources logs from sustainably managed plantation forests, and has the Forest Stewardship Council® (FSC®) Chain of Custody certification (FSC® C011498 and FSC® C021357). This measure provides a formal assurance that gives CHH Timber's customers confidence about its sustainability credentials. CHH Timber's products can be supplied with a FSC certificate on request.

View And Download Certificates

https://chhwoodproducts.co.nz/assets/CHHTimberFSC_CertificateNelsonCurrent.pdf

https://chhwoodproducts.co.nz/assets/CHHTimberFSC_CertificateKawerauMillCurrent.pdf

CARTER HOLT HARVEY ENVIRONMENTALLY RESPONSIBLE WOOD & WOOD FIBRE PROCUREMENT POLICY

View and download Carter Holt Harvey's Wood & Wood Fibre Procurement Policy – <https://chhwoodproducts.co.nz/assets/Uploads/CHH-Environmentally-Responsible-Wood-Wood-Fibre-Policy-Current.pdf>

Service Life:

Laserframe will continue to satisfy the relevant performance requirements of the NZBC for 50 years provided that all of the requirements set out in this Product Technical Statement and the current Laserframe Product Guide are satisfied, and Laserframe is installed in accordance with the specifications and installation details described in NZS 3604.

Product Support:

CHH Timber provides extensive product support for our full range of wood based building products. By visiting www.chhwoodproducts.co.nz you can access all the latest information regarding our products including Product Guides, Specification and Installation Guides, Technical Notes, Information Bulletins, CAD Drawings, Design Software and other useful information.

In addition to this CHH Timber have a team of Technical Experts available to assist with any product enquiries. You can contact the team by calling 0800 746 399 or by emailing info@woodproducts.co.nz

Legal Disclaimer:

The information contained in this document is current as at the published date and is based on data available to CHH Timber at the time of going to print. CHH Timber reserves the right to change the information contained in this document without prior notice. It is your responsibility to ensure that you have the most up to date information available. You can call toll free on 0800 746 399 or visit www.chhwoodproducts.co.nz to obtain current information.

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