



Laserframe® specified for Residential Applications through NZS 3604 or Specific Design

Product Technical Statement

<p>Product Description</p>	<p>Laserframe structural timber is manufactured by Carter Holt Harvey Woodproducts (CHHWP) for use as residential and commercial building framing. Laserframe is a range of sawn timber available in 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 (Forest Research) and internally by CHHWP as applicable to Laserframe.</p>
<p>Scope of Use</p>	<p>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.</p> <p>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.</p> <p>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.</p>
<p>Limitations / Disclaimer</p>	<p>Laserframe members may not be used in situations where they may be in direct contact with the ground.</p> <p>Please refer to the current Laserframe literature for information, limitations, and cautions regarding the storage, handling, installation, usage, and maintenance of Laserframe.</p>
<p>Compliance with the New Zealand Building Code</p>	<p>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:</p> <p>Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.3 (a, b, c, g, h, q), B1.3.4(d)</p> <p>The design properties of Laserframe are stress graded to Australian/ New Zealand Standard 1748: Timber Mechanically 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.</p> <p>Structural design used in designIT for houses software is in accordance with NZS 3603 (verification method B1/VM1, 6.1). Serviceability and other criteria were selected using guidelines available from joint Australian / New Zealand standards technical committees and correspond to those used in NZS 3604 (Acceptable Solution B1/AS1, 3.1).</p>



Laserframe® specified for Residential Applications through NZS 3604 or Specific Design

Product Technical Statement

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).

Quality Assurance

CHHWP 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 our 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



Laserframe® specified for Residential Applications through NZS 3604 or Specific Design

Product Technical Statement

Sustainability	<p>Laserframe is sawn from plantation pine grown in New Zealand. It is grown on tree farms which are tended and harvested to provide wood for Laserframe and other applications. The crop is managed on a sustainable basis to yield millable trees. New Zealand plantations are managed in compliance with the New Zealand Forest Accord, a voluntary agreement signed in 1991 between New Zealand forest managers and environmental nongovernment organisations.</p> <p>Laserframe is manufactured at our Nelson, Kawerau and Whangarei Sawmills. Laserframe is available Forestry Stewardship Council (FSC) certified upon request.</p>
Installation Requirements	<p>Laserframe is to be installed in accordance with the specifications and installation details described in NZS 3604 or as detailed by the Chartered Professional Engineer, and good building practice.</p>
Service Life	<p>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.</p>
Maintenance Requirements	<p>Laserframe members will not normally require maintenance.</p>
Product Support	<p>CHHWP 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.</p> <p>In addition to this CHHWP have a team of Engineers and Technical Experts available to assist with any product enquiries. You can contact the team by calling 0800 746 399 or by emailing woodproducts@chhwoodproducts.co.nz.</p>
Legal Disclaimer	<p>The information contained in this document is current as at June 2015 and is based on data available to CHHWP at the time of going to print.</p> <p>CHHWP 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 326 759 or visit www.chhwoodproducts.co.nz to obtain current information.</p> <p>CHHWP has used all reasonable endeavours to ensure the accuracy and reliability of the information contained in this document. However, to the maximum extent permitted by law, CHHWP assumes no responsibility or liability for any inaccuracies, omissions or errors in this information nor for any actions taken in reliance on this information.</p>