

Futurebuild® LVL Products: Specified through designIT®
for Commercial Floors
Product Technical Statement

Product Description	The Futurebuild® Laminated Veneer Lumber (LVL) range consists of a range of LVL based products including composite plywood and LVL beams. The Futurebuild LVL range of products features unique, specific material property ‘recipes’ which have been designed to suit floor joists and bearers together with plywood flooring that are designed using the designIT® for Commercial Floors software package.
Scope of Use	<p>Futurebuild LVL members, specified in designIT for commercial floors, are suitable for use as structural members in the framing of commercial, industrial and other similar heavily loaded floors. Futurebuild LVL members are to be installed in accordance with the specifications and installation details provided in the “designIT for Commercial Floors Installation Guide” and traditionally recognised framing practice.</p> <p>The durability of Futurebuild LVL used in floor systems is subject to the requirements of NZS 3602, Timber and Wood Based Products for use in Building (NZS 3602), and NZS 3604 Timber Framed Buildings (NZS 3604) where appropriate in accordance with New Zealand Building Code (NZBC) Clause B2 Durability.</p>
Limitations / Disclaimer	<p>Futurebuild LVL members may not be used in:</p> <ul style="list-style-type: none"> • Weather exposed applications • Situations where the moisture content may exceed 15 % for extended periods of time <p>Please refer to the current Futurebuild LVL literature for information, limitations, and cautions regarding the storage, handling, installation, usage, and maintenance of LVL.</p>
Compliance with the New Zealand Building Code	<p>Futurebuild LVL, when specified using designIT for commercial floors, 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><i>Clause B1 Structure: Performance B1.3.1, B1.3.2, B1.3.4(d), B1.3.3(a,b,c,q)</i></p> <p>The design properties of Futurebuild LVL were determined in accordance with Clause 2.3 of NZS 3603 Timber Structures Standard (NZS 3603).</p> <p>Futurebuild LVL is product certified by the Engineered Wood Products Association of Australasia (EWPAA) as being manufactured in accordance with the joint New Zealand / Australian Standard AS /NZS 4357: Structural Laminated Veneer Lumber (AS/NZS 4357). The EWPAA is accredited for product certification by the Joint Accreditation System of Australia and New Zealand (JAS-ANZ).</p> <p>Structural design 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.</p> <p><i>Clause B2 Durability: Performance B2.3.1(a) when used and treated to the requirements of NZS 3602</i></p>

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	<p>Futurebuild LVL is manufactured to meet the requirements of the NZBC Clause B2 Durability. As such, if the product is used in accordance with good building practices, and treated to the required treatment levels prescribed in NZS 3602, it will form part of an Acceptable Solution complying with the requirements of the NZBC (Acceptable Solution B2/AS1, 3.2.1).</p> <p>Clause C Fire Performance: C1 – C6</p> <p>Futurebuild LVL 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”</p> <p>Clause F2 Hazardous Building Materials: F2.3.1</p> <p>Futurebuild LVL meets this requirement and will not present a health hazard to people.</p> <p>Clause G6 Airborne and Impact Sound G6.3.1, G6.3.2</p> <p>Solid Futurebuild LVL can be used as a part of framing solutions for walls and floors (Acceptable Solution G6/AS1).</p>
<p>Quality Assurance</p>	<p>Futurebuild has strict quality assurance processes in place to monitor that Futurebuild LVL is manufactured in a manner that meets both the structural and visual requirements of the specific product.</p> <p>Futurebuild LVL is independently third party audited by the EWPAA. The EWPAA certifies Futurebuild LVL manufactured at its Marsden Point mill.</p> <p>Participation and compliance with the requirements of the EWPAA’s process based quality control scheme includes product testing and monitoring of properties. It provides the basis for the EWPAA’s Product Certification of Futurebuild LVL as conforming to the requirements of AS/NZS 4357.</p> <p>Conformance with AS/NZS 4357 ensures that Futurebuild LVL is suitable for structural applications in accordance with NZS 3603 and NZS 3604.</p> <p>The EWPAA’s product certification scheme is accredited under JAS-ANZ.</p>
<p>Sustainability</p>	<p>Futurebuild LVL is manufactured from plantation pine grown in New Zealand. It is grown on tree farms which are tended and harvested to provide wood for LVL manufacture 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 non-government organisations.</p>

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	<p>Futurebuild LVL is manufactured in New Zealand, at the Marsden Point Laminated Veneer Mill. Futurebuild LVL is available Forest Stewardship Council®(FSC®) (SCS-COC-001319) certified upon request.</p>
Installation Requirements	<p>Futurebuild LVL components designed using designIT® for commercial floors should be installed in accordance with “designIT® for Commercial Floors Installation Guide” and traditionally recognised framing practice. The specifications and details are available in the designIT for Commercial Floors software that can be downloaded from Futurebuild Software website www.chhsoftware.com or by calling 0800 808 131 for assistance.</p>
Service Life	<p>Futurebuild LVL 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 Literature and Software are satisfied.</p>
Maintenance Requirements	<p>Futurebuild LVL components will not normally require maintenance. However, in circumstances where coatings have been applied, maintain in accordance with coating manufacturers requirements.</p>
Product Support	<p>Futurebuild provides extensive product support for our full range of wood based building products. By visiting www.futurebuild.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 Futurebuild have a team of Engineers and Technical Experts available to assist with any product enquiries. You can contact the team by calling 0800 808 131 or by emailing info@futurebuild.co.nz .</p>
Legal Disclaimer	<p>The information contained in this document is current as at September 2018 and is based on data available to Carter Holt Harvey (CHH) LVL Ltd at the time of going to print.</p> <p>CHH LVL Ltd 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 808 131 or visit www.futurebuild.co.nz to obtain current information.</p> <p>CHH LVL Ltd 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, CHH LVL Ltd 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>