



IBUILT[™] MULTISTRUT FLOOR JOIST SYSTEM

PURPOSE

The IBUILT™ MultiStrut floor joist system comprises IBUILT™ MultiStrut Joists and IBUILT™ MultiStrut Ladder trusses for use as a floor joist system.

EXPLANATION

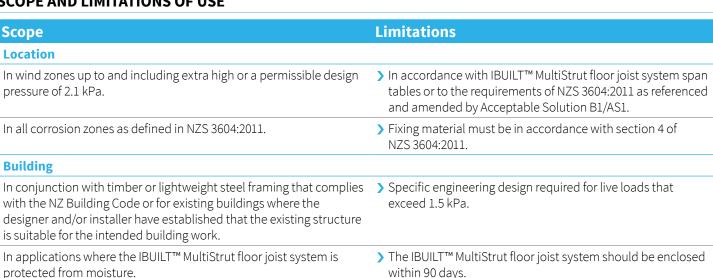
IBUILT[™] MultiStrut joists and ladder trusses are open webbed parallel chord trusses composed of steel webs, timber top and bottom chords, vertical webs and end blocks.

The steel webs are Multinail steel webs, manufactured from galvanised Z275 grade G300 steel.

The timber chords and vertical webs are manufactured from Nelson Pine 90 mm x 35 mm LVL 11. The LVL is glueline treated and surface spray-coated with Azotek[™] to provide a minimum of H1.2 level treatment. End blocks are manufactured from LVL and treated to either H1.2 glueline treated or H3.1 (LOSP).

IBUILT[™] MultiStrut joists are available up to a maximum length of 9600 mm in 300 mm increments. IBUILT™ MultiStrut ladder trusses are supplied in 2835 mm, 4035 mm and 5235 mm lengths.

SCOPE AND LIMITATIONS OF USE





USEFUL INFORMATION

For information on the design, installation and maintenance of the IBUILT™ MultiStrut floor joist system and for our warranty refer to www.nzwoodproducts.co.nz.

OTHER CERTIFICATIONS AND APPROVALS HELD BY NELSON PINE

> Forest Stewardship Council (FSC) certified: certificate FSC C019095 [SAI Global, 08/06/2020].



For further assistance please contact: C



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PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all IBUILT™ requirements, the IBUILT™ MultiStrut floor joist system will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1 B1.3.2 B1.3.3 (a, b, f, j, m, q)	ACCEPTABLE SOLUTION B1/AS1	 > Nelson Pine LVL is certified by Engineered Wood Products Association of Australasia (EWPAA) to AS/NZS 4357.0:2005, cited by NZS 3604:2011 [Nelson Pine, 07/2017]. > Paragraph 2.3.9.2 of NZS 3604:2011 requires LVL to be manufactured in accordance with AS/NZS 4357. > NZS 3604:2011 is cited by Acceptable Solution B1/AS1.
	VERIFICATION METHOD B1/VM1	 Multinail steel webs specific design by structural engineer (PS1) [M. Smith, 10/2021].
B2 DURABILITY B2.3.1 (a) B2.3.2 (a)	ACCEPTABLE SOLUTION B2/AS1	 > G250 Z275 galvanised steel in accordance with SNZ TS 3404:2018, cited in B2/AS1. > Treated to NZS 3640:2003 cited in B2/AS1. > Nelson Pine LVL is certified by Bureau Veritas for LVL treatment.
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	 Formaldehyde emission class E0 in accordance with Table 1 of AS/NZS 4357 [Nelson Pine, 07/2017]. Materials as per safety data [Nelson Pine, 25/01/2017].

SOURCES OF INFORMATION¹

- Nelson Pine. [25/01/2017] Safety Data Sheet. Retrieved from http://www.nelsonpine.co.nz/wp-content/uploads/ NelsonPine_LVL_H1.2_2017.pdf. [Accessed on 14/06/2021].
- Nelson Pine. [07/2017] LVL Framing Technical Data Sheet. Retrieved from http://www.nelsonpine.co.nz/wp-content/ uploads/NPI-LVL-Framing-Technical-Data-Sheet.pdf. [Accessed on 14/06/2021].
- > NZWOOD Products. [03/06/2021] IBUILT MultiStrut Installation Guide.
- > NZWOOD Products. [09/2021] IBUILT MultiStrut Ladder Truss Installation Guide.
- > Smith, M. [10/2021] Producer Statement PS1-Design. Standard MultiStrut and Ladder Floor Truss designs.
- > SAI Global. [08/06/2020]. Certificate of Registration. Certificate number CERT-0129414.



SCAN OR CLICK THIS QR CODE FOR A FULL DOWNLOAD OF COMPLIANCE DOCUMENTATION FOR THIS PASS™.



www.nzwoodproducts.co.nz

- 1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
- 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.
- 3. The quality and assurance that the supplied products meet the performance claims stated in this pass^M are the responsibility of the company that is the holder of this pass^M.

New Zealand Wood Products Ltd confirms that if the IBUILT™ MultiStrut floor joist system is used in accordance with the requirements of this pass™ the product will comply with the Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14 G of the Building Act.

Date of first issue:	29/06/2020
Date of current issue:	30/11/2022
NZBN:	9429034720325

Kevín Brunton

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of New Zealand Wood Products Ltd and in accordance with MBIE PTS guidelines and in accordance with the TBB pass[™] process which is within the scope of TBB's ISO 9001 certification.

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