

IBUILT™ MULTISTRUT FLOOR JOIST SYSTEM

PURPOSE

NZWOOD manufactures and supplies the IBUILT™ MultiStrut floor joist system. The system comprises IBUILT™ MultiStrut Joists and IBUILT™ MultiStrut Ladder trusses.

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.



For further assistance please contact:

- ☎ 0800 022 352
- ✉ enquiries@nzwoodproducts.co.nz
- 🌐 www.nzwoodproducts.co.nz



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In wind zones up to and including extra high or a permissible design pressure of 2.1 kPa. In all corrosion zones as defined in NZS 3604:2011.	In accordance with IBUILT™ MultiStrut floor joist system span tables or to the requirements of NZS 3604:2011 as referenced and amended by Acceptable Solution B1/AS1. Fixing material must be in accordance with section 4 of NZS 3604:2011.
Building In conjunction with timber or lightweight steel framing that complies with the NZ Building Code or for existing buildings where the designer and/or installer have established that the existing structure is suitable for the intended building work. In applications where the IBUILT™ MultiStrut floor joist system is protected from moisture.	SED required for live loads that exceed 1.5 kPa. The IBUILT™ MultiStrut floor joist system should be enclosed within 90 days.



USEFUL INFORMATION

For information on the design, installation and maintenance of 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.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all IBUILT™ requirements, MultiStrut joists 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> G250 Z275 galvanised steel in accordance with SNZ TS 3404:2018, cited in B2/AS1.
	ACCEPTABLE SOLUTION	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.

1. 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.



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

www.nzwoodproducts.co.nz



New Zealand Wood Products (NZWOOD) 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:

Date of current issue:

NZBN: NZBN 9429034720325

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the NZWOOD 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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VERSION:

Uncontrolled in printed format