

IBUILT™

Engineered Wood Products

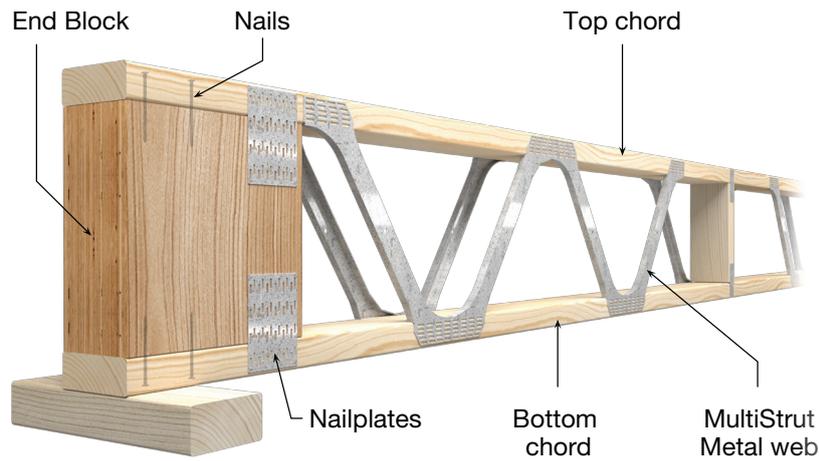
IBUILT MULTISTRUT

January 2023

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They are ideal for domestic construction as both joists and rafters.





IBuilt™ MultiStrut joist

IBuilt's MultiStrut floor joists are an open webbed parallel chord floor truss joist utilising steel web brackets and LVL11 top and bottom chords, and vertical webs.

IBuilt MultiStrut joists provide increased spanning capabilities over standard framing while also being lightweight and efficient to install. They are ideal for domestic construction as both joists and rafters.

The open web joist design enables building services such as plumbing, electrical and service ducting to run between the chords without the need for drilling, notching or cutting.

Large open floor plans are a common requirement in modern residential homes. With larger span capabilities the need for internal walls can be reduced.

Typical spans of up to 6m are achievable for residential floors which allows for larger open spaces or fewer structural beams.

Practical benefits

- Open web system gives almost uninterrupted access for the passage of services.
- 90mm wide flanges provide a large area for the fixing of flooring and ceiling material.
- Depth compatible with other engineered timber products.
- Supplied in 150mm crs increments with a trimmable end.
- Lightweight construction.

Components of IBuilt MultiStrut joists

LVL11 Top and Bottom Chords

NZ made laminated veneer lumber (LVL) supplied by Nelson Pine, 90x35mm LVL11 chords have a higher strength:stiffness ratio and more predictable performance over sawn timber.

Nelson Pine LVL H1.2 framing is glue line treated plus surface coating with Azotek, which gives it a complete cross section treatment. LVL is an Acceptable Solution as per NZS 3640 for treatment and NZS 3604 Clause 2.3.9 for timber framing.

MultiStrut Steel Webs

Multinail's steel webs are pre-pressed and formed for the fast and reliable manufacture of parallel chord timber floor joists and rafters. Steel webs are made from galvanised Z275 grade G300 steel to meet the requirements of NZS 3604:2011 Section 4 - Durability Table 4.2 (Galvanising of steel components).

IBuilt MultiStrut joists can be use in both midfloor and subfloor applications providing moisture levels, ventilation requirements and ground clearances for enclosed subfloors are met.

Joist Spans

Available as 240mm or 300mm deep

MAXIMUM JOIST SPAN (M)			
Floor type	MultiStrut Size	300crs	400crs
Standard floor	MSJ300	6.0	5.7
Heavy Floor	MSJ300	5.7	5.4
Standard floor	MSJ240	5.1	4.8
Heavy Floor	MSJ240	4.8	4.2



NZWOOD
NEW ZEALAND WOOD PRODUCTS LIMITED

149 Kerrs Rd, Wiri, Auckland

PO Box 76412, Manukau, Auckland 2241, New Zealand

Tech Info Line: 0800-022-352

Phone: +64-9-268 6540

sales@ibuilt.co.nz
techinfo@ibuilt.co.nz

www.ibuilt.co.nz