



## IBUILT™ MULTISTRUT SUBSTITUTIONS

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IBuilt MultiStrut has been designed to be utilized as floor joists in residential house construction. While the performance of MultiStrut joists are comparable to other engineered joist products (similar or otherwise) they are not identical. Appropriate checks must be carried out to ensure their suitability prior to ordering.

### Design criteria

When ordering MultiStrut joists the below items must be confirmed:

- The joists are not supporting upper load bearing walls.
- They are not spanning across load bearing walls acting as a 'continuous span' member.
- Cantilevers do not exceed 120mm. (i.e. Brick veneer overhang applications are acceptable).
- Exact length requirement must be checked (Joists have a max trim of 300mm).
- Joists must be installed at 400mm crs max, however 5.7m-6.0m joists must be @ 300mm crs.
- Heavier floor loadings (i.e. 65kg/m<sup>2</sup>) must be checked against the span table in the IBuilt MultiStrut Installation Guide.
- Boundary members are same height (i.e. 300mm).
- They are not used in external applications such as deck framing.

### Strongbacks

MultiStrut joists must be installed with strongbacks to increase the stiffness of the floor system and reduce the deflection via load sharing. IBuilt can supply 140x45 LVL11 as part of the order. Min strongback grade is 140x45 SG8.

- For joists from **2.4m to 4.2m** - x1 strongback is required center span.  
Strong back formula: Number of joists multiplied by joist spacings (+ allowance for any joining/splicing)
- For joists **4.5m and longer** - x2 strongbacks are required at 1/3 and 2/3 span locations.  
Same formula as above - **doubled**.

**FOR FURTHER INSTALLATION AND PRODUCT INFORMATION PLEASE REFER TO THE  
IBUILT MULTISTRUT INSTALLATION GUIDE OR CALL IBUILT ON 0800 052 352**

<https://nzwoodproducts.co.nz/products/details/ibuilt-multistrut/39/>