

BUILDING WITH BOWMAC[®]

DESIGN INFORMATION

TIMBER & DURABILITY

- All structural timber grades to conform to NZS 3603:1993 Amendment 4
- Treatment to NZS 3602:2003
- Timber can be green but fasteners and brackets would then need to be stainless steel
- Our recommendation is to leave treated timber to cure for 2 to 3 weeks for the chemical preservative to set and for moisture content to be 20% or less at time of installation
- Apply a layer of grease to bolts for further protection

DESIGN LOADS

- Dead loads for Light Roof = 0.25kPa, Heavy Roof = 0.65kPa, Ceiling = 0.20kPa
- Dead load includes weight of trusses, purlins, associated framing and roofing material
- Live loads as defined by AS/NZS 1170.1:2002
- Wind zones as defined by NZS 3604:2011
- Earthquake zones 1, 2, 3 or 4 as per NZS 3604:2011
- Snow loads - **ALL** designs up to 1.0kPa Snow load unless otherwise noted
- Soil conditions - **ALL** foundations to be into natural good ground with a minimum ultimate bearing capacity of 300kPa
- Refer to **MiTek New Zealand Limited** for any design modifications required for increase in snow loads or wind loads above those stated on the drawings

DESIGN REFERENCES

NZS 3603:1993
NZS 3604:2011
AS/NZS 1170:2002

LOAD DETAILS

These drawings have been prepared using the above design loads.
It is the responsibility of the user to ensure that the design data and loads are still correct at the time of construction.

PRODUCT SPECIFICATIONS

These details have been designed using specific **MiTek New Zealand Limited BOWMAC** products and the performance of the buildings is reliant on the correct choice of product.
Any product substitutions will invalidate these designs and details.

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