WAIPAPA PINE H1.2 MG SG8 FRAMING TIMBER **DESIGN AND INSTALLATION GUIDE**



V1.0 September 2023

General

- > This guide covers installing and maintaining Waipapa Pine H1.2 MG SG8 Framing Timber.
- This guide is suitable for use by people with basic > carpentry skills.
- > Where applicable, those specifying or installing the timber must meet all Restricted Building Work
- Technical assistance is available at waipapapine.co.nz.
- While all reasonable efforts have been made to ensure the accuracy of the information provided, please note that it is subject to change, and this document should be considered a guide only.

Design

USE

- > Confirm use is within the scope of the pass $^{\text{\tiny{M}}}$.
- Waipapa Pine H1.2 MG SG8 Framing Timber is not for external/exposed use.
- Available in sizes (mm): 70 x 45, 90 x 45, 140 x 45, 190 \times 45, 240 \times 45, 290 \times 45, and 90 \times 35 and 140 \times 35 for ceiling strapping.

PRIMARY STRUCTURE COMPLIANCE

> Ensure the balance of the primary structure complies with the NZ Building Code and is suitable for the intended work.

SELECTION AND FASTENINGS

- > Use the appropriate selection tables and general requirements in section 8 of NZS 3604:2011 Timberframed buildings to specify the timber.
- > For uses outside the scope of NZS 3604:2011 Timberframed buildings, including roof trusses, Waipapa Pine H1.2 MG SG8 Framing Timber must be specifically designed. Refer to AS/NZS 1170.1:2002 Structural design actions - Part 1: Permanent, imposed and other
- Adhere to size and spacing requirements and account for vertical and horizontal loads.
- For bracing demands to meet section 5 of NZS 3604:2011 Timber-framed buildings, refer to specific framing requirements in accordance with the bracing element selection and manufacturer's technical information.



Select fastenings in accordance with Table 2.2 of NZS 3604:2011 Timber-framed buildings and Table 4.3 of NZS 3604:2011 for durability requirements. Specific proprietary fastening can be specified if it is established fastenings are NZ Building Code compliant, e.g., proprietary bottom-plate wall-bracing brackets and/or roof uplift connectors.

Install

HEALTH AND SAFETY

- Prioritise safety for yourself and others.
- Ensure proper ventilation or dust extraction during cutting or drilling.
- Ensure the timber is well supported when cutting and
- Wear appropriate safety equipment, clothing, footwear and eye protection.
- > Use all tools in accordance with relevant instruction manuals and ensure all tools are sharp.
- > Plan and monitor a safe approach for working at height; select and use the right equipment.
- Clear the work area of any obstruction before work starts.
- Refer to:
 - The absolutely essential health and safety toolkit for small construction sites by WorkSafe. Download at worksafe.govt.nz/topic-and-industry/building-andconstruction/absolutely-essential-toolkit
 - Health and safety at work quick reference guide by WorkSafe. Download at worksafe.govt.nz/ managing-health-and-safety/getting-started/healthand-safety-at-work-quick-reference-quide.

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HANDLING AND STORAGE

- Care must be taken during loading, unloading and transporting in the yard and on-site to protect the timber from pre-installation damage.
- > Store timber flat on a hard, dry surface, laid flat on bearers that extend across the member's full width. Timber stored near the ground will absorb moisture. To prevent this, place a layer of plastic underneath the bearers.
- **>** Do not expose timber to rapid changes in moisture or temperature, such as from temporary heating units.
- **>** When storage inside is not possible, remove any wrap, place spacers between each layer of timber, and then re-wrap or cover with a waterproof cover.

TOOLS AND EQUIPMENT

- > Use standard carpentry tools for installation.
- > Use tools in accordance with good trade practice and supplier's instructions.

BUILDING CONSENT DOCUMENTATION

- **>** Consult building consent documents if applicable.
- > Otherwise, refer to NZS 3604:2011 Timber-framed buildings or design specification.

INSTALL

- > Ensure end cuts are plumb and true.
- Any framing that is ripped parallel with the grain shall not be regarded as structural or load-bearing.
- **>** Ensure use is within the tolerances in Section 2.2 of NZS 3604:2011 Timber-framed buildings.
- **>** Ensure a damp-proof course separation layer is installed when the timber is fixed to concrete or steel.
- Where used for structural framing, studs must be at a maximum 600 mm centres (unless varied by design).
- > Horizontal framing requires a minimum 35 mm seating over and under studs.
- > Ensure services penetrations and notches are within the tolerances of NZS 3604:2011 Timber-framed buildings. Refer to Figure 7.8 and Figure 8.4.
- > Fixings are to be in accordance with building consent documentation, if applicable, or NZS 3604:2011 Timber-framed buildings. Refer to Table 2.2 of NZS 3604:2011 and Table 4.3 of NZS 3604:2011 for durability requirements. Suitable connectors include hand or power-driven nails. Proprietary fasteners (e.g., bottom-plate wall-bracing brackets and/or roof uplift connectors) may be used if they meet NZ Building Code requirements. Confirm compliance with the manufacturer's technical literature.

EXPOSURE AND ENCLOSING

- Do not expose timber for more than three months under construction conditions.
- Wetting during construction may lead to temporary elevated moisture content and dimensional changes.
- > Once enclosed, timber will dry and equilibrate to the humidity conditions. Some expansion or swelling may remain after drying.
- Do not install linings on timber with moisture content

Maintenance

- Timber does not require specific care and maintenance to maintain its performance once enclosed.
- Ensure the balance of the wall linings and claddings is maintained to protect the timber.
- Where internal or external moisture has damaged the timber framing, engage the services of a licensed building practitioner for advice.



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