WAIPAPA PINE H3.2 MG SG8 FRAMING TIMBER DESIGN AND INSTALLATION GUIDE



V1.0 September 2023

General

- > This guide covers installing and maintaining Waipapa Pine H3.2 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 H3.2 MG SG8 Framing Timber is for internal and external use in timber framed buildings, including fencing, landscape, and external structures.
- > Available in sizes (mm) 70 x 45, 90 x 45, 140 x 45, 190 x 45, 240 x 45 and 290 x 45.

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 Timber-framed buildings to specify the timber.
- Adhere to size and spacing requirements and account for vertical and horizontal loads.
- For uses outside the scope of NZS 3604:2011 Timber-



- framed buildings, Waipapa Pine H3.2 MG SG8 framing timber must be specifically designed. Refer to AS/NZS 1170.1 Structural design actions - Part 1: Permanent, imposed and other actions.
- If applicable, refer to specific framing requirements in accordance with the bracing element selection and manufacturer's technical information for bracing demands in accordance with section 5 of NZS 3604 Timber-framed buildings.
- > 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. Fastenings must be hot dipped galvanised steel fasteners at a minimum. Stainless steel is recommended for difficult-to-access areas, for replacement fixings, or in Exposure Zone D as described in section 2.2 and Table 4.3 of NZS 3604:2011. 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-guide.

HANDLING AND STORAGE

> Care must be taken during loading, unloading and

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- transporting in the yard and on-site to protect the timber from pre-installation damage.
- Timber can be purchased wet or dry. Store appropriately for the intended use of the timber. Place timber on wood dunnage or laid flat on bearers and store covered if possible.
- **>** Do not expose timber to rapid changes in moisture or temperature, such as may occur from temporary heating units.

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 apart (unless varied by design).
- > Horizontal framing requires a minimum 35 mm seating over and under studs.
- **>** For subfloor framing or deck joists, ensure a minimum clearance of 150 mm between bottom of bearer and
- If the timber is to be enclosed, do not install linings when the moisture content is \geq 18%.
- **>** 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 of NZS 3604:2011





Timber-framed buildings. Hot dipped galvanised steel fasteners must be used at a minimum. Stainless steel is recommended for difficult-to-access areas, for replacement fixings, or in Exposure zone D. 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.

Maintenance

- Timber does not require specific care and maintenance to maintain its performance.
- Fixings can corrode over time. Check fixings regularly and replace if necessary.

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