

Garrison Installation Guide


Garrison[®]
by claymark



CodeMark >>>
CMNZ10013

 **claymark**[®]

Ingrained Precision

in everything we do

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Prior to cladding

Prior to the installation of Garrison weatherboards it is important to ensure that:

- The framing complies with the requirements of NZS 3604 timber framed buildings.
- The framing is straight and is within tolerances allowed by table 2.1 Tolerances of NZS 3604.
- Timber framing moisture content is less than 20%.
- Wall underlay is compliant with the requirements set out in table 23 of E2/AS1.

Garrison weatherboard sizes

Bevelback weatherboard sizes

- 135x18mm
- 142x18mm
- 180x18mm
- 187x18mm

Care of product prior to installation

Correct handling and storage of Garrison weatherboards is critical for best performance, ease of use and warranty adherence.

Garrison weatherboards should be delivered when ready to be installed. Unnecessary storage time on site can increase the risk of accidental damage and exposure to adverse conditions. All boards should be inspected upon delivery and any damage reported to your supplier. All Garrison should be lifted off the truck by hoist or hand. They should never be tipped from the truck.

While storing Garrison it is important to keep it dry and off the ground by at least 150mm. If you are storing outside always use a waterproof cover as a secondary to the Claymark wrap, but always ensure that there is sufficient air flow to avoid condensation.

Also avoid storing over puddles, other standing water or vegetation.

Deliveries should be timed to allow minimum time sitting on site, especially when weatherboards are in unfinished damp buildings or in an uncovered building allowing the chance of moisture uptake.

Where possible always store weatherboards in a covered building.

All Garrison weatherboards must be stored on a flat, level and firm platform.

Note: All warranty will be void if the product has not been kept dry before installation, or that has not been painted according to the specifications outlined above.



Drained and ventilated cavities

A drained or vented cavity is required behind Garrison bevelback weatherboards when the weather tightness risk score exceeds 12. For further information refer to Acceptable solution E2/AS1.

Nailing Guide

Fixing cavity battens

Structural Battens

The use of approved structural cavity battens allows Garrison weatherboards to be fixed directly to the cavity batten eliminating the need for larger fixings (refer table 1 below).

Structural cavity battens should be nailed over framing members and wall underlay to studs using 60 x 2.8mm hot dipped galv or stainless steel ring shank or jolt head hand driven nails. For gun driven use 64 x 2.8mm hot dipped galv or 65 x 2.87mm stainless steel ring shank nails at 300mm alternating either side of the batten centre line.

Non Structural Battens

This batten is fixed by the Garrison fixing penetrating the wall framing. A temporary fixing can be used until Garrison is fixed to the framing.

Fixing Garrison Weatherboard

Direct fixing

For direct fixing of Garrison weatherboards consult E2/AS1. Including reference to table 21.

Cavity fixing

Using structural cavity batten

When nailing to a cavity batten that is structurally fixed, fix Garrison weatherboards using 75 x 3.15mm hot dipped galvanised jolt head nails. Single fixing 10mm above top of the lower board.

Note: When installing Garrison weatherboard over a vented cavity, should be constructed in conjunction with E2/AS1. A vented cavity must be used where the E2/AS1 risk exceeds 12.

Using non structural cavity batten

When nailing to a cavity batten that is not structurally fixed, fix weatherboards using 90 x 4.0mm jolt head nail (35mm penetration to stud) or 75 x 3.15mm annular grooved nail (25mm penetration to stud) Single fixing 10mm above the top of the lower board. All Garrison products are manufactured with an active treatment that is nonreactive to all nails and fastenings, however, when used in combination with stainless steel fastenings, the long term durability of a project can be greatly increased.

We recommend hand nailing, a nail gun may be used as long as it does not bruise/damage the weatherboard and that the correct nail size is adhered to as per our nailing guide.

- Pre drill all boards 50mm from the end.
- All nails should be punched 2mm below the top surface of the board.
- Cavity battens to be 45 x 20mm H3.1 treated minimum.
- Ensure nogs to wall are spaced at 800mm centres.
- Stud spacings to NZS 3604 by designer.
- Provide polypropylene tape over wall wrap at 300mm centres. Vertically between cavity battens if battens are more than 450 centres.

There should be a minimum of a 50mm overlap below the bottom plate or bearer, as required by E2/AS1.

We recommend that you use a complete board with no cuts in above all windows when possible. To allow for normal seasonal movement, nailing should not restrict movement, and always avoid nailing through overlapping boards. Garrison should always be nailed over studs with a maximum centre of 600mm. Nailing patterns should comply with E2/AS1, industry standards and best practice. The minimum lap for the weatherboards is 31mm, and weather-grooves should line up.

Note: It is recommended that type 304 stainless steel fixings and flashings are used in seaspray and geothermal zones, it is the building designers responsibility to ensure all specified fastenings, fixings and flashings comply with Section 4 – Durability of NZS 3604.

Weatherboard Type	Framing Set-Out	Nails (Direct Fixing)	Nails (Cavity Fixing)	Nailing Requirements	Wind Zone	Wind Barrier
Horizontal Bevel Back to stud or batten	Studs @ 600mm centres max.	75 x 3.15 Jolt Head (JH), Hot Dipped (HD), Galv. Nails	See option 2 below Jolt Head (JH), Hot Dipped (HD), Galv. Nails	Single nail located, immediately above, but within 10mm of the lap	Low, Medium, High & Very High	Lightweight Building Paper Heavyweight Building Paper or Rigid Sheath



Joining Garrison Weatherboard

Garrison should be fixed in full wall lengths where possible. If joints are unavoidable joint over a stud or batten. Scarf joint at 45° and use one fixing through the overlapping board. Prime cut ends twice. Best practice is to cover with a flat soaker.

For laps and joints

- Horizontal laps to be 31mm
- 2mm end gap between boards
- Ensure that joints are made over supports
- Always drill for nailing within 50mm of board end

Internal corners

Mitre or butt fit junctions, external and internal corners with corrosion resistant soakers in accordance with Acceptable Solution E2/AS1.

Windows

All windows should be installed in accordance with Acceptable solution E2/AS1.

All window details may change at anytime, please ensure strict accordance with E2/AS1, ensure support bars are provided in accordance with WENZ WIS refer to www.wenz.org.nz

Cutting and Sealing

When you cut Garrison weatherboard you do not have to re-treat, but you must prime any cuts with 2 coats of 100% exterior premium undercoat. When using putties, mastics and sealants with Garrison, ensure they are compatible with acrylic based paints and for exterior application, if you are unsure, seek professional advice from the sealant manufacturer.