



Thermory Cladding

INSTALLATION GUIDE

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1. GENERAL AND PRODUCT INFORMATION

PURPOSE	This guide will help correctly install the Thermory cladding systems (the Thermory Ash cladding system or the Thermory Nordic Pine cladding system).
IMPORTANT DOCUMENTS	<p>This guide must be read in conjunction with:</p> <ul style="list-style-type: none"> › Product pass™ documents¹ <ul style="list-style-type: none"> • Thermory Ash cladding system pass™ or • Thermory Nordic Pine cladding system pass™ › Technical Documents² <ul style="list-style-type: none"> • Thermory cladding design guide • Thermory cladding specification guide • Thermory cladding care and maintenance guide • Thermory Ash cladding system warranty • Thermory Nordic Pine cladding system warranty.
SKILLS REQUIRED	This guide is suitable for use by a licensed building practitioner licensed to the relevant class or a competent builder if no building consent is required.
FOR MORE HELP	<p>Technical assistance is available at www.timberline.co.nz</p> <p>While all reasonable efforts have been made to ensure the accuracy of information provided, this is a guide only. It may be subject to change.</p>
FOR OUR WARRANTY	Refer to www.timberline.co.nz .
DESCRIPTION	<p>The Thermory cladding systems are thermally modified timber weatherboard cladding systems. They are available as Thermory Ash manufactured from PEFC or FSC (on request) certified North American and European White Ash or Thermory Nordic Pine manufactured from PEFC or FSC (on request) certified Northern European Scots Pine.</p> <p>The timber is heat-treated at 215°C or greater with no chemicals added. The thermal modification process changes the physical properties of the timber, so the timber becomes more stable and resistant to rot.</p> <p>The Thermory cladding systems are available in profiles specified in NZS 3617:1979 (horizontal bevel back, horizontal rebated bevel back, horizontal rusticated, vertical shiplap, and vertical board and batten), and in different lengths.</p>
SCOPE AND LIMITATIONS	Refer to Thermory Ash cladding system pass™ and Thermory Nordic Pine cladding system pass™.

1 See www.thebuildingbusiness.co.nz/timberline-pass-landing for controlled versions.

2 See www.timberline.co.nz/resources for controlled versions.

2. PRE-INSTALLATION

HEALTH AND SAFETY

Take all necessary steps to ensure your safety and the safety of others:

- › ensure adequate ventilation or mechanical dust extraction when cutting or drilling
- › ensure the timber is well supported when cutting and nailing
- › wear appropriate safety equipment, clothing and footwear
- › use all tools in accordance with relevant instruction manuals
- › 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.

For further information refer to:

- › WorkSafe. [July 2018] Small Construction Sites, the Absolutely Essential Health and Safety Toolkit.
- › WorkSafe. [December 2016] Health and Safety at Work, Quick Reference Guide.

These documents are available at www.worksafe.govt.nz.

HANDLING AND STORAGE

Handling

Care must be taken during loading, unloading, and transporting the Thermory cladding to prevent pre-installation damage.

Unload on-site by hand or hiab using fabric strops and protection to the product edges.

Storage

Store Thermory cladding on a flat and dry surface, laid flat on bearers, with plastic underneath the bearers. The Thermory cladding should be stored in a dry environment undercover if possible or wrapped with a waterproof cover.

3. INSTALLATION

KEY DOCUMENTS

Refer to the building consent plans and specifications for the Thermory cladding.

Where specific assemblies are not contained in the building consent documentation, refer to Acceptable Solution E2/AS1³.

TOOLS AND EQUIPMENT REQUIRED

Install Thermory cladding using standard carpentry tools and equipment. Use tools in accordance with good trade practice and supplier's instructions.

PRODUCTS AND COMPONENTS

Product selections and components are described in the Thermory cladding specification guide.

BEFORE INSTALLATION



Check framing

Ensure that the substrate is straight and true and within the framing tolerances described in NZS 3604:2011, section 2 and Table 2.1 or NASH Design Standard: 2019 Part 2, section 2.5.

Studs must be at maximum 600 mm centres, with noggs and dwangs fitted between the studs at maximum 800 mm centres.

³ Where Acceptable Solution E2/AS1 is referenced in this document, E2/AS4 also applies in respect of lightweight steel framing.

Ensure the building underlay installed complies with Table 23 of Acceptable Solution E2/AS1. A rigid air barrier (RAB) that complies with Table 23 of the Acceptable Solutions E2/AS1 must be installed where the Thermory cladding is to be used in wind zones of very high or above.



Check moisture content

Check the moisture content of the Thermory cladding. Test 5% of boards and at least 10 boards in the centre of the length using a moisture metre. 90% of the values must be within the range specified in Table 4 of NZS 3602:2003. Where battens are to be used, ensure the moisture content of the battens is no greater than 20%.



Check flashings and closers

Ensure all necessary flashings are installed, pipe and flue penetrations and back flashings are installed at all corners and head flashing stop ends are installed at windows and doors. Where the installation includes a cavity, ensure the cavity closers are installed continuously around the bottom of the cavity.

INSTALLATION



Install cladding

Check weatherboard length and spread appropriately to optimise board lengths and minimise joints.

All joints must be made over a supporting timber member.

Use a laser or mechanical device to set out all nailing accurately in straight lines. Align grooves to ensure there is an expansion gap between lapped and rebated boards. Allow a minimum gap of 2.0 mm.

Cut boards as required. Predrill boards and fix in accordance with Table 24 of Acceptable Solution E2/AS1.

Install fascia, corners, eaves moulding, window and door facing trims.



Apply coating

Thermory cladding should be coated with a penetrating oil coating after installation (and then recoated once a year). This will preserve the natural characteristics of the timber and maintain an attractive appearance.

Regular care and maintenance are recommended to maintain the cladding. Refer to the Thermory cladding care and maintenance guide.

COMPLETION



Quality check

Check the cladding system to ensure all components are installed correctly.

Advise the building owner of all maintenance requirements.



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See www.timberline.co.nz
for current version.