

DESIGN GUIDE

Version 1.0 April 2023



INTRODUCTION

Purpose

This design guide relates to the design of Hume Pine Pineclad and Pineclad TMT horizontal weatherboard cladding systems (“the systems”). These are:

- › the Pineclad and Pineclad TMT Bevelback and Rebated Bevelback weatherboard cladding system and
- › the Pineclad and Pineclad TMT Rusticated weatherboard cladding system.

Important documents

Specifying one of the systems relies on this guide and the following documents:

- › current CodeMark™ certificate of conformity for Pineclad & Pineclad TMT – Horizontal Weatherboard External Cladding System
- › the relevant specification guide
- › the relevant Hume Pine details
- › Hume Pine Horizontal Weatherboard External Cladding systems installation guide
- › Hume Pine Weatherboard Care and Maintenance guide
- › Hume Pine Warranty
- › Acceptable Solution E2/AS1.

Skills required

This guide is suitable for use by a designer who:

- › is a licensed building practitioner licensed to the relevant class or deemed LBP or
- › will be supervised by a licensed building practitioner licensed to the relevant class or deemed LBP.

For more help

Technical assistance is available at www.humepine.nz.

While all reasonable efforts have been made to ensure the accuracy of information provided, this guide is a guide only. It may be subject to change.

For our warranty

Refer to www.humepine.nz.



Product description

The systems comprise timber weatherboards, fascia boards, and moulding profiles manufactured from finger-jointed, glued laminated, clear radiata pine. Two brands are offered: Pineclad and Pineclad TMT.

Pineclad

- › is manufactured from NZ grown FSC® certified Radiata pine
- › is treated to hazard class H3.1 with a light organic solvent preservative (LOSP)
- › profiles are supplied with a factory applied alkyd pre-primer, ready for sanding and re-priming with an acrylic undercoat and two top coats as part of a three coat paint system.

Pineclad TMT

- › is manufactured in New Zealand from locally sourced Radiata Pine timber
- › is thermally modified to a temperature of 230 °C
- › profiles are supplied with
 - a factory applied alkyd pre-primer, ready for sanding and re-priming with an acrylic undercoat and two top coats as part of a three coat paint system, or
 - a coating of an oil-based stain, ready for re-coating with the oil-based stain following installation, or
 - finished with a Shou Sugi Ban (charred) finish with an oil coating ready for re-coating with the oil following installation.

The following components are available and are offered in both brands:

- › 18 mm thick weatherboards, in the following profiles and widths (mm):
 - Bevelback in widths of 135, 142, 180 and 187
 - Rebated Bevelback in a width of 135
 - Rusticated in widths of 135 and 180
 - Rusticated (Wellington Scallop) in widths of 215 and 240
 - Rusticated (Hawkes Bay Bevel Rustic) in widths of 215
- › 25 mm thick fascia boards, in widths of 150, 200, 250 and 300
- › 40 mm thick fascia boards, in widths of 150, 200, 250 and 300
- › moulding profiles of Bevelled Cornice, Quad, Scotia, Scriber, D4S, D4S Eaves mould, Weather Grooved Boxed Corners, Sill, and Rustic Plug.

Scope and limitations

For scope of use, limitations, conditions and statement of building code compliance, refer to:

- › Current CodeMark™ certificate of conformity for Pineclad & Pineclad TMT – Horizontal Weatherboard External Cladding System

DESIGN

The steps required to design and specify the systems are described in this section.

Links to Hume Pine details that are to be included on the relevant plan sheet are provided. It is intended that the details are placed on the relevant plan sheet for easy reference on-site.

Step 1: Confirm scope

Confirm the proposed use is within the scope and limitations of the CodeMark™ certificate of conformity.

Step 2: Confirm related building work

The performance and appearance of the systems rely on the substrate.

Framing

The systems are suitable for use with a timber or lightweight steel structure.

Confirm the primary structure:

- complies with the NZ Building Code and is designed in accordance with NZS 3604:2011 or NASH Design Standard 2019 Parts 1 and 2; or
- is suitable for the intended building work, if the building is an existing building.

Underlay

The systems must be used with a building underlay (flexible or rigid) and fixings that are appropriate for the building project and site-specific conditions.

Where the wind zone is extra high, a rigid air barrier must be used.

Thermal break

In the case of lightweight steel framing a thermal break must be used.

Step 3: Specify the use of the product

Select direct fix or installed over a ventilated and drained cavity

Direct fixing of the Rusticated system can be specified when the E2/AS1¹ Risk Matrix is calculated and the score is 6 or less.

Direct fixing of the Bevelback and Rebated Bevelback weatherboard cladding system can be specified when the E2/AS1 Risk Matrix is calculated and the score is 12 or less.

Select the system

Hume Pine offers a treated system and a thermally modified system.

- Describe the selected system on the plansheet.
- Mark the selected system on the specification.

Direct fixing

Select the relevant Hume Pine weatherboard fixing detail and include on applicable plan sheet. Mark on specification the detail and fixings that have been selected.

Cavity system fixing

Select the relevant Hume Pine weatherboard fixing detail and include on applicable plan sheet. Mark on specification the detail and fixings that have been selected.

¹ Where E2/AS1 is referenced this is to be read to include E2/AS4.



Laps, penetrations, junctions, corners, windows, & doors

- › Select all the details needed to install the cladding system. Place these details on the plansheets
- › Mark all selected details on the specification
- › Select all timber components and place profile on plansheet
- › Mark of selected profiles on specification.

Specify coating

Hume Pine offer three options.

- › two coat high-grade acrylic paint system. For the Pineclad system the paint system must have a Light Reflective Value (LRV) of greater than 45 %.
- › stain or oil coat in accordance with coating supplier's requirements (Pineclad TMT only)
- › Shou Sugi Ban with oil coating (Pineclad TMT only).

Mark selected coating option on plansheets and specification.

Step 4:

Quality check

- › Confirm all relevant design requirements are met
- › Complete the relevant Hume Pine Specification
- › Check that each plansheet includes all relevant details including batten and weatherboard fixing details.

BUILDING CONSENT DOCUMENTATION

Include all of the following information when lodging a building consent application.

- › Current CodeMark™ certificate downloaded from MBIE Register.
- › Completed specification.
- › Plansheets that include all required details.
- › Hume Pine Horizontal Installation Guide
- › Hume Pine Care and Maintenance Guide
- › Hume Pine External Cladding Warranty