



# DESIGN GUIDE

Version 2.1 May 2024

## 1. INTRODUCTION

1.1 Purpose	<p>This Design Guide relates to the design of Hume Pine Pineclad and Pineclad TMT Vertical Weatherboard Cladding Systems ("the Systems"). These are:</p> <ul style="list-style-type: none"><li>• The Pineclad and Pineclad TMT Shiplap Weatherboard Cladding System, and;</li><li>• The Pineclad and Pineclad TMT Board and Batten Weatherboard Cladding System.</li></ul>
1.2 Important Documents	<p>Specifying one of the systems relies on this Guide and the following documents:</p> <ul style="list-style-type: none"><li>• the current Pineclad and Pineclad TMT – Vertical Shiplap Weatherboard External Cladding System <b>CodeMark™ Certificate of Conformity</b>.</li><li>• The relevant Specification Guide.</li><li>• The relevant Hume Pine details.</li><li>• Hume Pine Vertical Weatherboard External Cladding Systems Installation Guide.</li><li>• Hume Pine Weatherboard Care &amp; Maintenance Guide.</li><li>• Hume Pine Warranty.</li><li>• Acceptable Solution E2/AS1.</li></ul>
1.3 Skills Required	<p>This Guide is suitable for use by a designer who:</p> <ul style="list-style-type: none"><li>• Is a licensed building practitioner licensed to the relevant class or deemed LBP, or;</li><li>• Will be supervised by a licensed building practitioner licensed to the relevant class or deemed LBP.</li></ul>
1.4 For More Help	<p>Technical assistance is available at <a href="http://www.humepine.nz">www.humepine.nz</a></p> <p>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.</p>
1.5 For Our Warranty	<p>Refer to <a href="http://www.humepine.nz">www.humepine.nz</a></p>

## 1.6 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:

- 18mm thick Weatherboards, in the following profiles and widths (mm):
  - Board & Batten in widths of 180 (Board) and 65 (Batten).
  - Shiplap in widths of 135 and 180.
- 25mm thick Fascia Boards, in widths of 150, 200, 250 and 300.
- 40mm thick Fascia Boards, in widths of 150, 200, 250 and 300.
- Moulding Profiles of Bevelled Cornice, Quad, Scotia, Scriber, D4S, D4S Eavesmould, Weather Grooved Boxed Corners, Sill, and Rustic Plug.

## 1.7 Scope & Limitations

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

- The current Pineclad and Pineclad TMT – Vertical Shiplap Weatherboard External Cladding System CodeMark® Certificate of Conformity.

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**CodeMark**   
CMNZ30106

## 2. 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:	<p><b>Confirm Scope</b></p> <p>Confirm the proposed use is within the scope and limitations of the current CodeMark™ Certificate of Conformity.</p>
Step 2:	<p><b>Confirm Related Building Work</b></p> <p>The performance and appearance of the system rely on the substrate.</p> <p><b>Framing</b></p> <p>The systems are suitable for use with a timber or lightweight steel structure.</p> <p>Confirm the primary structure:</p> <ul style="list-style-type: none"> <li>• 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;</li> <li>› is suitable for the intended building work, if the building is an existing building.</li> </ul> <p><b>Underlay</b></p> <p>The systems must be used with a building underlay (flexible or rigid) and fixings that are appropriate for the site-specific conditions.</p> <p>Where the wind zone is extra high, a rigid air barrier must be used.</p> <p><b>Thermal Break</b></p> <p>In the case of lightweight steel framing, a thermal break must be used.</p>
Step 3:	<p><b>Specify the Use of the Product</b></p> <p><b>Direct Fixed System or Installed Over a Ventilated and Drained Cavity</b></p> <p>Direct fixing of the systems can be specified when the E2/AS1<sup>1</sup> Risk Matrix is applied and the score is 6 or less.</p> <p><b>Direct Fixing</b></p> <p>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.</p> <p><b>Cavity System Fixing</b></p> <ul style="list-style-type: none"> <li>• Select the relevant Hume Pine weatherboard fixing detail and include on applicable plan sheet.</li> <li>• Mark on specification the detail and fixings that have been selected.</li> </ul> <p><b>Laps, Penetrations, Junctions, Corners, Windows &amp; Doors</b></p> <ul style="list-style-type: none"> <li>• Select all the details needed to install the cladding system. Place these details on the plansheets.</li> <li>• Mark all selected details on the specification.</li> <li>• Select all timber components and place profile on plansheet.</li> <li>• Mark of selected profiles on specification.</li> </ul>

<sup>1</sup> Where E2/AS1 is noted, it is to be read as including E2/AS4.



Step 3:  
(Cont'd)

Specify the Use of the Product (Cont'd)

**Detail Windows, Doors & Flashings**

- Select and specify componentry of choice. (e.g. Window and sill componentry) from the Hume Pine selections or details.
- Select the relevant Hume Pine details to ensure that windows, doors and flashings are detailed in accordance with Hume Pine's Vertical Weatherboard System details.

**Specify Coating**

Hume Pine offer three options.

- Two coat high-grade acrylic paint system with 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 plan sheets and specification.

Step 4:

**Quality Check**

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



### 3. BUILDING CONSENT DOCUMENTATION

**What to Include:** 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 & Maintenance Guide.
- Hume Pine External Cladding Warranty.

For more information or to access Hume Pine's Vertical Weatherboard System details follow the link.

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