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BPIR ID *HCLADRW*



HTL Rusticated Weatherboards Technical Guide for Specifiers and Installers

1.0 About

1.1 Introduction

HTL Rusticated Weatherboards are a Cavity-based horizontal cladding best suited for light commercial and residential buildings.

The weatherboards are finished with two coats of DRYDEN WoodOil.

This cladding is a first and second line of defence against water penetration by separating the cladding from the external wall frame with an 18mm minimum drained cavity.

1.2 Profile

The following profiles are covered by this guide:

- HTL67 & HTL68
- HTL167 & HTL168
- HTL201-HTL203 & HTL251-HTL253

1.3 Timber Species

HTL Weatherboards are available in the following species:

Siberian Larch (treatment free)

New Zealand Larch (treatment free)

Radiata Pine (treated H3.2 CCA)

Note - Larch has excellent durability, consequently, neither

Siberian nor NZ Larch require treatment.

1.4 Accessories

HTL Rusticated Weatherboards come with these optional accessories:

Mouldings - (With Cladding)

- Cover boards; HTL901, HTL902
- External corner moulds; HTL40 or HTL42
- Internal corner moulding; HTL41
- Eaves moulding; HTL32 or HTL33
- Rustic Plug; HTL43 or HTL44
- Scriber; HTL11 or HTL12
- "Custom" mouldings for "Custom" cladding orders

Fixings – (Builder Supply)

- Use Silicon Bronze or Grade 316 Stainless Steel Annular Grooved Crown Head or Rose Head nails. Nail shank diameter must be 2.8mm minimum. Length must allow wall penetration of minimum 30mm.
- Aluminium flashings

1.5 Sales Order Confirmation

Ensure Merchant, Builder or Client signs off HTL Sales Order Confirmation. Important to Check: Profile Code, Face Finish, Selected Lengths, Coat Colour

2.0 Building Code Compliance

If installed, used and fitted as instructed in this Guide, HTL Rusticated Weatherboard will comply with these provisions of the New Zealand Building Code:

- Section B1—Structure: Performance B1.3.1, B1.3.2 and B1.3.4 for loads arising from self-weight, wind, impact and creep. (i.e. B1.3.3 (a), (h), (j) and (q).
- Section B2—Durability: Performance B2.3.1 (b) 15 years and B2.3.2.
- Section E2—External Moisture: Performance E2.3.2.
- Section F2—Hazardous Building Materials: Performance: F2.3.1

HTL Rusticated Weatherboards are an Alternative Solution in terms of New Zealand Building Code Compliance.

2.1 Scope

HTL Rusticated Weatherboards are suitable as a horizontal external fixed wall cladding meets the requirements and limitations of the following:

- NZBC Acceptable System—E2/AS1, Paragraph 1.1
- Timber framing compliant with NZS 3604:2011
- Risk score of 0-20 calculated from NZBC Acceptable Solution E2/AS1, Table 2; and,
- NZS 3604:2011, Sec 5.2 Wind Zones, including "Very High"
- All materials and processes contained in the NZS 3604:2011 building scope

2.2 Timber Grading

HTL Rusticated Weatherboard comply with NZS 3602: 2003, Table 2:2A.1-*Species* NZS 3602:2003, Table 2:2A.1-*Grade*. Any loose or bark encased knots or natural timber defects should be removed during installation. All grades may require some docking.

HTL Rusticated Weatherboards are available in 19mm and 21mm thicknesses and in a variety of cover widths. A random length supply of weatherboards ranges from 1.8 – 4.8m. Longer lengths may be available on request.



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HTL Rusticated Weatherboard boards are supplied dry, moisture content at 18% or less (see NZS 3602:2003, Table 2:2A.1-*Moisture*).

HTL Rusticated Weatherboard is available in a Band Sawn Face (BSF), recommended for better longevity and Dressed Face (DF) (Check with coating manufacturer for sanding requirements.) Other "custom" options available.

2.3 Durability

HTL Rusticated Weatherboard exceed the 15-year minimum durability requirement when fixed above ground, (NZBC Para. B2 – Durability: Performance B2.3.1 (b) 15 years and B2.3.2.).

3.0 Oil Coating

Only DRYDEN WoodOil may be applied to HTL Rusticated Weatherboards. DRYDEN WoodOil is a water repellent, nonfilming, deeply penetrating timber protector.

Initial coat is to be applied to all 4 sides, including sealing of all end cuts. Second coat is following installation. Dressed Face boards are to be face sanded prior to oiling.

Installers must refer to the DRYDEN WoodOil Data Sheet at – https://www.dryden.co.nz/wp-content/uploads/2018/11/WoodOil-Data-Sheet.pdf

4.0 Handling & Storage

Ensure HTL Rusticated Weatherboard are kept dry, by storing indoors with a minimum 100mm ground clearance. Avoid damage to the plastic wrapping, weatherboard edges and surfaces.

5.0 Installation

Before installing HTL Rusticated Weatherboard the wall underlay, flexible sill and jamb tape system must have been installed according to manufacturer's instructions.

The underlay must be installed horizontally and flow continuously around corners. It must be lapped 75mm minimum at horizontal joints and 150 mm minimum over studs at vertical joints.

Ensure underlays and tapes around window and door openings achieve a continuous seal and protect all exposed timber wall framing.

5.1 Health & Safety

HTL Rusticated Weatherboard cutting must be carried out in a well-ventilated area. Protective equipment including dust masks and hearing and eye protection must be worn.

5.2 Installation Checklist

- Weatherboards cannot be wet, moisture content of 18% or less (NZS 3602:2003; Table 2:2A.1-Moisture)
- All faces and edges must be sealed prior to installation. Edges, ends and exposed fresh cut timber during installation must be doublesealed using DRYDEN WoodOil.
- Installation should start at the bottom of the wall section being clad, with the first board installed level.
- Weatherboards must overhang the bottom plate by 50mm minimum. And ensure minimum ground clearances are adhered to as per E2/AS1:2011 para. 9.1.3.5(a).
- Apply a continuous bead of sealant to the face of internal and external flashings along the fixing line immediately before installing weatherboards.
- Boards must overlap so that the weather grooves line up.
- Pre-drill weatherboards on a slight up-slope with a hole slightly smaller than the nail. Use one nail per board to fix each weatherboard to every stud. Nail shank diameter must be 2.8mm minimum. Length must allow wall penetration of minimum 30mm.
- The fixing is to be located 40mm from the bottom edge, and not less than 35mm from the end of the board. The fixing must finish flush with the surface of the weatherboard.
- Where possible, fix weatherboards in full lengths, but if joins cannot be avoided, scarf the board at 45° over a stud and fix according to previous two notes. Ensure joins are staggered in a random pattern.
- Internal and external corners must be finished according to E2/AS1
 - o para. 9.4.4.4(a)(ii) External corners (fig 78(a)) and
 - o para. 9.4.4.5 Internal corners (fig 79(a) & (b)).



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5.3 Timber Framing

Timber wall framing behind the HTL Rusticated Weatherboard must meet the requirements of NZS 3602:2003 (Timber and Wood-Based Products for Use in Building).

Timber framing must comply with the requirements and limitations of New Zealand Building Code and NZS 3604:2011. Buildings or parts of buildings outside the scope of NZS 3604:2011 must be to a specific design as laid out in NZS 3603 and AS/NZS 1170. In these cases, framing stiffness must be at least equivalent to the provisions of NZS 3604:2011 and meet framing manufacturer's specifications.

All studs must be at maximum 600mm.

5.3.1 Framing Tolerances

Framing tolerances must comply with NZS 3604:2011;

- para. 2.4.3-Tolerances and
- Table 2.1-Timber framing tolerances

5.4 Cavity Battens

Available cavity battens include:

- 45mm x 20mm horizontal ventilated cavity batten
- 45mm x 20mm vertical cavity batten
- 45mm x 45mm horizontal ventilated cavity batten
- 65mm x 45mm vertical cavity batten

Vertical battens to be located at every stud and at side of every opening. And horizontal battens to be located above & below openings. Battens to be fixed with cladding fixings (refer E2/AS1:2011: Table 24).

5.5 Aluminium Joinery

Aluminium joinery (to NZS4211) and relevant flashings must be installed according to the window manufacturer's specifications.

NZBC Acceptable Solution E2/AS1:2011, paragraph 9.1.6, stipulates that a PEF rod and air seal be installed after the joinery has been secured in place. Therefore, a nominal gap of 7.5-10mm must be left between the joinery reveal and the wall farming.

6.0 Maintenance

The building owner must carry out regular maintenance to prolong the life of the cladding and ensure that New Zealand Building Code requirements continue to be met.

Annual inspections must be carried out and any damaged or deteriorating areas repaired straight away, following manufacturer's instructions.

The surface finish should be cleaned at least annually using a mild detergent and water.

The stain finish will need re-coating every two or three years (possibly more often on exposed walls). Ensure all weatherboard surfaces are wellcoated, including the bottom edge.

7.0 Disclaimer

Project specifiers must ensure the product as detailed in this Guide is suitable for its intended use. Any specific design or areas that fall outside the specifications of the Guide will require additional detailing. These must meet all requirements of the New Zealand Building Code. HTL will not be liable for any claims, damages or defects arising from, or in any way attributed to:

- Poor Workmanship
- Poor Design or detailing
- Incorrect design of the structure
- Settlement or structural movement and/or movement of materials to which the products are attached
- Acts of God including, but not limited to: earthquakes, cyclones, floods or other severe weather conditions or unusual climatic conditions.
- Efflorescence performance of paint/coatings applied to the products.
- Normal wear and tear or: growth of mould, mildew, fungi, bacteria, or any organism on the surface of any products (whether on the exposed or unexposed surfaces).

8.0 Current warnings or bans

This product is not subject to a warning or ban under Section 26 of the Building Act 2004.