

ULLTRACLAD[®] Horizontal Cavity System

Technical Statement (PTS)

Product Description and Use

The **ULLTRACLAD[®]** Cavity System is a cavity-based, inter-locking powder coated aluminium weatherboard system. It is designed to be used as an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

The system includes horizontally fixed Ulltraclad[®] weatherboards (Standard, Full Corrugate, Tee Board, Infinity Board, Traditional W/Board, Shadoline and Shado-100), timber battens, internal and external corner mouldings, starter strips, board jointers, board locators, joinery flashings and accessories.

The system incorporates a primary and secondary means of weather resistance (first and second line of defence) against water penetration by separating the cladding from the external wall framing with a nominal 20 mm cavity.

New Zealand Building Code (NZBC)

The **ULLTRACLAD[®]** Cavity System, if designed, used, installed and maintained in accordance with the statements and conditions of BRANZ Appraisal No. 487 (2012) and the Technical Literature, will meet or contribute to meeting the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. The Ulltraclad[®] Cavity System meets the requirements for loads arising from self-weight, earthquake, wind and impact [i.e. B1.3.3 (a), (f), (h) and (j)].

Clause B2 DURABILITY: Performance B2.3.1 (b), 15 years and B2.3.2.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

The **ULLTRACLAD[®]** Cavity System is an Alternative Solution in terms of New Zealand Building Code compliance.

Evidence of compliance

Ullrich Aluminium Co Ltd provides this PTS to demonstrate that it has met its responsibilities under s14G of the Building Act. Ullrich Aluminium Co Ltd is able to support claims of performance, based on the technical evidence provided within BRANZ Appraisal [No.487 \(2012\) ULLTRACLAD[®] Cavity System](#)

Scope of use

The **ULLTRACLAD[®]** Cavity System is suitable for use as an external wall cladding for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1; and,

- constructed with timber framing complying with the NZBC; and,
- with a risk score of 0-20, calculated in accordance with NZBC Acceptable Solution E2/ AS1, Table 2; and,
- situated in NZS 3604 Wind Zones up to, and including 'Extra High'.

The **ULLTRACLAD**® Cavity System also meets the requirements for weathertightness and structural wind loading when used as an external wall cladding system for buildings within the following scope:

- the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 with regards to building height and floor plan area; and,
- constructed with timber framing complying with the NZBC; and,
- situated in specific design wind pressures up to a maximum design differential ultimate limit state (ULS) of 2.5 kPa.

The **ULLTRACLAD**® Cavity System must only be installed horizontally on vertical, flat surfaces.

The **ULLTRACLAD**® Cavity System is suitable for use with aluminium window and door joinery that is installed with vertical jambs and horizontal heads and sills. *(It is expected that the joinery will meet the requirements of NZS 4211 for the relevant Wind Zone, or be specifically designed for use in specifically designed buildings.)*

Technical Literature

The following Technical Literature must be followed to ensure compliance when the Ulltraclad® Cavity System is used.

Technical Drawings

- UA4917 TEE BOARD CAVITY FIX DETAILS
- UA4528 STANDARD BOARD CAVITY FIX DETAILS
- UA5059 TRADITIONAL W/BOARD CAVITY FIX DETAILS
- UA5104 FULL CORROGATE CAVITY FIX DETAILS
- UA6975 SHADOLINE BOARD CAVITY FIX DETAILS
- UA7401 INFINITY BOARD CAVITY FIX DETAILS
- UA7726 SHADO-100 BOARD CAVITY FIX DETAILS

Maintenance Requirements

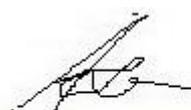
For Maintenance information on the **ULLTRACLAD**® Cavity System, refer to

<http://www.duluxpowdercoatings.co.nz/information/care-maintenance/>

For Further Information



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