

Vulcan Ultraclad Horizontal Cavity Cladding System

Product Technical Statement: 113621



Ultra-high performance aluminium cladding system

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



Vulcan confirms that this minimum level of assurance has been met or exceeded by the following:
BRANZ Appraisal
[487 \(2024\)](#)



The following information has been provided by Vulcan demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 1

Product Description

Our cladding systems are crafted to endure, offering superior resistance against the elements while maintaining their visual integrity. Ideal for architects and builders seeking sustainable, low-maintenance solutions, UltraClad® stands as a testament to eco-friendly, yet striking architectural design.

Cladding Profiles Ultraclad® is available in 5 profiles. Each profile lends itself to a different style of building, allowing Ultraclad® to be used on both residential and commercial buildings. The profile depths range from 140mm to 205mm, with a width of 15mm.

Scope of use

The UltraClad® Cavity System is designed to be used as an external wall cladding system for residential and light commercial type buildings where domestic construction techniques are used.

Suitable for wind zones up to, and including 'Extra High'

Seismic earthquake situations

Suitable for use with aluminium window and door joinery that is installed with jambs and heads and sills

Maximum wind ULS of 2.5KPA

Cavity fixing only

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B1 Structure:** Performance B1.3.1, B1.3.2, B1.3.3(a), B1.3.3(h), B1.3.3(j)
Structural opinions have been provided by BRANZ technical experts. Uniform wind face load tests to simulate wind pressures on Ultraclad® standard weatherboard were carried out by BRANZ, and the results were used in assessing the Ultraclad® Vertical Weatherboard Cavity System
- Clause B2 Durability:** Performance B2.3.1(b), B2.3.2(a)
Durability opinions have been provided by BRANZ technical experts.
- Clause E2 External moisture:** Performance E2.3.2
The Ultraclad® Vertical Weatherboard Cavity System has been tested to the version of NZBC Verification Method E2/VM1 as contained within NZBC Clause E2, Amendment 5
- Clause F2 Hazardous building materials:** Performance F2.3.1
Ultraclad® weatherboards are composed entirely of aluminium and are therefore defined as non-combustible, as per NZBC Acceptable Solution C/AS1 and C/AS2, Appendix B Definitions and are suitable for use on external walls in accordance with NZBC Acceptable Solution C/AS1, Paragraph 5.3.1.1 a) and NZBC Acceptable Solution C/AS2, Section 5.8.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

New Zealand Building Code (NZBC)



masterspec partner

Company Contact Details

VULCAN
Building Systems

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The Ultraclad® Horizontal Weatherboard Cavity System, if designed, used, installed and maintained in accordance with the statements and conditions of this Appraisal, will meet the following provisions of the NZBC:

Clause B1 STRUCTURE: Performance B1.3.1, B1.3.2 and B1.3.4. The Ultraclad® Horizontal Weatherboard 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)]. See Paragraphs 9.1–9.3.

Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.2. The Ultraclad® Horizontal Weatherboard Cavity System meets these requirements. See Paragraphs 10.1–10.3.

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2. The Ultraclad® Horizontal Weatherboard Cavity System meets this requirement. See Paragraphs 14.1–14.5.

Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. The Ultraclad® Horizontal Weatherboard Cavity System meets this requirement

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal
[487 \(2024\)](#)

Product Criteria

Design requirements

All aspects of design, use, installation and maintenance contained in the Technical Literature and within the scope of Branz Appraisal must be followed.

Branz Appraisal must be read in conjunction with - Ultraclad vertical weatherboard cavity system, Rev 11, 2024

Installation requirements

All design and building work must be carried out in accordance with the Ultraclad® Vertical Weatherboard Cavity System Technical Literature and this Appraisal by competent and experienced tradespersons conversant with the Ultraclad® Vertical Weatherboard Cavity System. Where the work involves Restricted Building Work (RBW) this must be completed by, or under the supervision of, a Licensed Building Practitioner (LBP) with the relevant License Class.

Maintenance requirements

It is recommended in environments with low salt, low pollutant and urban areas cleaning should take place at a minimum of every twelve months.

In areas where salts, pollutants and high corrosivity levels are prevalent, e.g. beachfront houses or industrial areas, it is recommended a cleaning program should be carried out more frequently at a minimum of every six months.

Sheltered areas can have a higher risk of coating degradation as wind-blown salt and other debris or pollutants may adhere to the surface and not be removed when it rains. These areas may require more frequent cleaning.

If visible pollutants are evident on the surface more frequent cleaning is recommended.

Warrantees

Refer to Vulcan

Company Product Information

Environmental

With an emphasis on sustainable material sourcing, Vulcan now sources its aluminium for Building Systems locally from Tiwai Point, one of the lowest global embedded carbon aluminium sources. This strategic choice not only supports the local economy but also significantly reduces transport emissions, highlighting Vulcan's holistic approach to sustainability. The company's commitment extends beyond sourcing, embracing the principles of a circular economy through an effective recycling program. By ensuring that all production waste is redirected to local re-melt facilities, Vulcan turns potential waste into reusable infeed billet, emphasising aluminium's role in future sustainable building practices.

Relationships



New Zealand Made

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Vulcan Ultraclad Horizontal Cavity Cladding System

Product Technical Statement: 113621



Vulcan Building Systems

Business Email:

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Product Identifier

ULTRACLAD® HORIZONTAL WEATHERBOARD CAVITY SYSTEM APPRAISAL NO. 487 (2024)

Warnings

This product has no warnings associated with it.



Date last validated: **05 December 2024**



Date last updated: **05 December 2024**

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