

IQCLAD CLADDING SYSTEM

PURPOSE

The IQCLAD Cladding System is supplied for use as an external wall cladding system.

EXPLANATION

The IQCLAD Cladding System is an interlocking extruded aluminium weatherboard cladding system incorporating a drained and ventilated cavity.

The weatherboards are manufactured from 6063 or 6060 T5 aluminium and powder-coated in accordance with AAMA 2604 or 2605. The weatherboards can be installed with a horizontal or vertical orientation.

Weatherboards are available in three profiles:

- Kaweka
- Remutaka and
- Hunua.

The boards are up to 6500 mm maximum length. The boards are 230 mm in width with an effective cover of 190 to 200 mm and are 13 mm thick.

Weatherboards are installed using concealed fixing brackets, fixed to aluminium cavity battens. Ancillary components include flashings and trims.



For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
Up to a design wind pressure (ULS) of 2.5 kPa, which includes all wind zones defined in NZS 3604:2011.	
In all exposure zones as defined in NZS 3604:2011.	➤ For use where adverse microclimatic conditions apply (refer to paragraph 4.2.4 of NZS 3604:2011), refer to IQCLAD.
Any proximity to the relevant boundary.	➤ All other parts of the wall assembly must comply with all relevant NZ Building Code Protection from fire clauses.
Building	
In conjunction with a primary structure that complies with the NZ Building Code or where the designer and/or installer have established that the existing structure is suitable for the intended building work and local site.	
On timber or lightweight steel framing.	➤ A thermal break with an R-value of not less than 0.25 is required where used with lightweight steel framing.
As an external cladding.	➤ The IQCLAD Cladding system must be installed over a drained and ventilated cavity. ➤ A weathertight, flexible, or rigid underlay must be installed that meets the performance characteristics necessary for the specific site conditions and (as a minimum) is as described in table 23, E2/AS1. A rigid underlay is required in an Extra High wind zone or where the design pressure exceeds 2.1 kPa. Where a rigid underlay is installed, a flexible wrap must also be installed or an alternative barrier that can be demonstrated to meet Building Code Clause E2.
With aluminium joinery.	➤ The joinery must be manufactured to NZS 4211:2008 or have a current product certificate with the installation meeting all conditions of that certificate.
On buildings of any building height.	➤ All other parts of the cavity system must comply with Building Code Clause C3.5.

USEFUL INFORMATION

For design, installation and maintenance information, refer to iqclad.nz.

CONDITIONS OF USE

The IQCLAD Cladding System must be designed and installed in accordance with the following:

- IQCLAD Horizontal Cladding System Design guide or the IQCLAD Vertical Cladding System Design guide, and the
- IQCLAD Horizontal Cladding System Installation guide or the IQCLAD Vertical Cladding System Installation guide.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all IQCLAD requirements, the IQCLAD Cladding System will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2, B1.3.3 (a, f, h, j, q), B1.3.4 (a, b, c, d, e)	VERIFICATION METHOD B1/VM1 and ALTERNATIVE SOLUTION	➤ Structural design criteria in accordance with B1/VM1 and calculations confirming adequacy of connections for withdrawal loading on battens [Markplan, 17/11/2022]. ➤ Tested in accordance with E2/VM1 to a wind pressure of 2.5 kPa [FaçadeLab, n.d.a; n.d.b].
B2 DURABILITY B2.3.1 (b) B2.3.2 (b)		➤ D1010, D2525 and D3020 powder coating to AAMA 2604 or AAMA 2605. AAMA 2604 is cited in SNZ TS 3404:2018 which is cited in B2/AS1. AAMA 2605 has greater performance requirements than AAMA 2604.
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE C3.4 (a), C3.7 (a)	ACCEPTABLE SOLUTION C/AS2 1st Edition	➤ Metal is non-combustible.
E2 EXTERNAL MOISTURE E2.3.2, E2.3.3, E2.3.5, E2.3.7 (a, b, c)	VERIFICATION METHOD E2/VM1 and ALTERNATIVE SOLUTION	➤ Tested in accordance with E2/VM1 [FaçadeLab, n.d.a; n.d.b]. ➤ Aluminium cavity battens and drained and ventilated cavity has a comparable level of performance to an E2/AS1 drained and ventilated cavity. ➤ Details for supplied flashings, trims and details for clearances have a comparable level of performance to an E2/AS1 cladding system.
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	➤ Use in accordance with supplier's safety requirements. ➤ Aluminium is an inert metal.

SOURCES OF INFORMATION

- FaçadeLab. [n.d.b]. *Testing of IQ clad aluminium horizontal weatherboard cladding, in accordance with E2/VM1 – Class 2.* Test report: 22-18. Test dates 5-6 December 2022.
- FaçadeLab. [n.d.b]. *Testing of IQ clad aluminium vertical weatherboard cladding, in accordance with E2/VM1 – Class 2.* Test report: 22-19. Test dates 12-13 December 2022.
- Markplan. [17/11/2022]. *Structural calculations for proposed product by ICONIC HOLDINGS LTD.* Report I016-0001.

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

SCAN OR CLICK THIS QR CODE TO
ACCESS OR REQUEST THE RELEVANT
SUPPORTING DOCUMENTATION FOR
THIS PASS™.

iqclad.nz



IQCLAD Limited confirms that if IQCLAD Cladding System is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

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NZBN: 9429049369274

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of IQCLAD Limited has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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