

JACOBSSEN QUADROCLAD® FAÇADE PANELS

PURPOSE

QuadroClad® façade panels (panels) are supplied by Jacobsen for use as an external rainscreen and as an internal lining.

EXPLANATION

QuadroClad® façade panels comprise an aluminium honeycomb structure sandwiched between aluminium skin. The external skin is 1.0 mm thick, and the internal skin is 0.5 mm thick. The skins and honeycomb are bonded together with a durable adhesive to create a panel designed to withstand high pressure and shear forces.

The panels are available in a range of sizes up to a maximum of 1550 mm wide x 6000 mm long. They are also available in thickness of 10 mm to 35 mm.

Four systems are offered:

- QuadroClad® QC50 Interior and Exterior
- QuadroClad® QC100 Easy Panel
- QuadroClad® QC200 Horizontal and Vertical
- QuadroClad® QC300 Horizontal and Vertical.

The panels are installed over a drained and ventilated cavity using an integrated fixing method which is system-specific.

The fixing systems are a specifically designed 6063-T5 aluminium bracket support system supplied in horizontal and vertical support channel configurations. The panels are located into position using a proprietary hidden clip or a continuous back carrier with varying cavity depth.

Panels may be installed flat, curved or in conjunction with glass and resin panels.

The panels are available in varying base types and colours, including metal finishes.

All components of QuadroClad® are made from aluminium which is fully recyclable at the end of the façade lifecycle.



For further assistance please contact:

- ☎ 0800 800 460
- ✉ customer.service@jacobsens.co.nz
- 🌐 www.jacobsens.co.nz



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In wind zones up to and including very high as defined in NZS 3604:2011 or to a wind design pressure (ULS) of (conversion 2000 N/m ²) to 2.0 kPa. In all exposure zones as defined in NZS 3604:2011. On buildings any proximity to a relevant boundary.	<ul style="list-style-type: none"> ➤ Wind pressure allowed determined by the length of the horizontal span modules as prescribed in the Quadroclad® Façades Technical brochure. ➤ Where QuadroClad® is used on a building with an exposed eaves detail or where adverse microclimatic conditions (as set out in paragraph 4.2.4, NZS 3604:2011) apply, contact Jacobsens for technical advice. ➤ The QuadroClad® Façade system must be installed in accordance with NFPA 285 testing and Intertek evaluation.
Building In conjunction with a primary structure that complies with the NZ Building Code or where the designer or installer have satisfied themselves that the existing structure is suitable for the intended building work.	<ul style="list-style-type: none"> ➤ Quadroclad® is an open rainscreen so must be installed over a rigid, moisture resistive air barrier that complies with the NZ Building Code.

USEFUL INFORMATION

For information on the design, installation and maintenance of QuadroClad® Façade Panels and for our warranty refer to www.jacobsens.co.nz.

OTHER CERTIFICATIONS AND APPROVALS HELD BY MANUFACTURER

Hunter Douglas Architectural Products (China) Company, Ltd as manufacturer of the system have the following certifications:

- ISO 9001: 2015 Certificate CN01/19150.01 Issued by SGS, UKAS accredited
- ISO 14001: 2015 Certificate Nr: 46446/09-18_a Issued by DAkkS
- ISO 50001: 2011 Certificate Nr: 46446/09-18_a Issued by DAkkS
- ISO 14025: 2006 Certificate EPD-NBK-20160120-CBE1-DE Issued by IBU-Institut Bauen und Umwelt e.V.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Jacobsen's requirements, the QuadroClad® Façade Panels will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE ¹	
	Compliance statement	Demonstrated by
B1 Structure B1.3.1, B1.3.2, B1.3.3 (a) (b), (c), (f), (h), (i), (j), (m) B1.3.4 (b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Tested to ECCA test method to withstand a 1.5 T bend through 180° without damage. ➤ Seismic performance of a façade wall. Sirve Evaluation (January 2008), <i>DICTUC</i> accredited.
B2 Durability B2.3.1 (a) B2.3.2 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Tested by BDA Advies to EN ISO 9223: 2012. <i>Corrosion of metals and alloys</i>.
C3 Fire affecting areas beyond the fire source C3.4(a) C3.5 C3.7 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Tested by SIRIM QAS to BS476: Parts 6 1989 + A1: 2009 and Part 7 1997. Achieved material 1 rating. ➤ SIRIM QAS is ILAC-MRA accredited. ➤ Tested by Intertek to CAN/ULC-S134-13 and NFPA 285. ➤ Aluminium is non-combustible (refer definitions C/AS2 June 2019, 1st Edition).
E2 External moisture E2.3.2 E2.3.5 E2.3.7 (a, b, c)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Shawn McIsaac. Oculus. [Nov 2019]. Evaluation against AAMA 509-09.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ The coating system is inert once dry. ➤ Aluminium does not contain or emit any harmful concentrations.

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION

- BDA Advies [14/05/2009]. Report 08-G-0057. *Durability assessment – Aluminium façade system QC25-10*.
- Intertek [31/03/2017]. Report number 102943149SAT-001. Report of testing QC 300 for compliance with the applicable requirements of the following criteria: *CAN/ULC S134, Standard Method of Fire Tests of Exterior Wall Assemblies, 2013*.
- Intertek [24/04/2017]. Report number 102786103SAT-001. Report of testing QuadroClad QC 300 Exterior Façade System for compliance with the applicable requirements of the following criteria: *NFPA 285, Standard Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components, 2012 Edition*.
- SIRIM QAS International [26/05/2017]. Report number 7191170336-MEC17/2-YWA. *BS 476.6: 1989 + A1: 2009 Test of fire propagation*.
- SIRIM QAS International [26/05/2017]. Report number 7191170336-MEC17/1-OKH. *BS476.71997 Test for classification of the surface spread of flame*.
- Hunter Douglas Architectural [2018]. *QuadroClad Façades Technical brochure*.
- Oculus Architectural Engineering Limited [2019]. *Peer review of referenced performance technical documentation*.

VERSION:

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Note: Uncontrolled in printed format.

DATE:

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Signed on behalf of Jacobsen:

NAME:

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Andrew French

POSITION:

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National Sales Manager

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.



Jacobsen, 41 Morrin Road, Mt Wellington, Auckland 1072 > customer.service@jacobsens.co.nz > 0800 800 460 > www.jacobsens.co.nz

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