

ZX® SOLID ALUMINIUM PANEL

PURPOSE

ZX® Panels are supplied for use as an external cladding system.

EXPLANATION

The ZX® Panel Exterior Cladding System (ZX® Panel) comprises a 2.0 mm thick powder-coated aluminium panel and patented Aluminium support system. The support system comprises precision manufactured extrusions that are easily assembled with screws and friction fit, self-locking components. All components are designed and manufactured (from 5005 and 6060 aluminium alloys) in New Zealand.

ZX® Panel can be configured to accommodate a maximum panel size of up to 2400 mm x 1200 mm.

In addition to the ZX® Panel, the system also comprises of the following components:

Fixings & Plates

ZX-22 (Spacer)
ZX-24 (M10 x 45 mm)
ZX-25 (M4 x 11 mm)
ZX-218 (External Corner Bottom Plate)
ZX-219 (Internal Corner Bottom Plate)

Accessories

ZX-20 (3M All Weather Flashing)
ZX-21 (Wedge TPE Santoprene)
ZX-31 (Quilosa FMS Adhesive)
ZX-40 (Glazing Tool)

Extrusions

ZX-201 (Lower and Top Base)	ZX-207 (Vertical Base)	ZX-221 (WANZ Bar)
ZX-202 (Lower/Top/Vertical/Horizontal Cover)	ZX-208 (Horizontal Base)	ZX-224 (Door/window transition rail)
ZX-203 (External Corner)	ZX-209 (Vertical Batten)	ZX-227 (Flashing Head Batten)
ZX-204 (External Corner Cover)	ZX-210 (Door/Window Jamb Batten)	ZX-228 (Flashing Head)
ZX-205 (Internal Corner Base)	ZX-211 (Batten Base Receiver)	
ZX-206 (Internal Corner Cover)	ZX-212 (J-Mould)	

For further assistance
please contact:

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✉ tony@zxpanel.co.nz
🌐 www.zxpanel.com



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Location</p> <p>In wind zones up to and including extra high as defined in NZS 3604:2011 or up to ULS 4.5 kPa by specific design.</p> <p>In all exposure zones as defined in NZS 3604:2011.</p> <p>Any proximity to a relevant boundary.</p>	<p>➤ Where 'microclimatic conditions' (sec 4.2.4, NZS 3604:2011) apply, contact ZX® Panel for technical advice.</p> <p>➤ The balance of the external wall is to comply with all building code obligations.</p>
<p>Building</p> <p>All building uses.</p> <p>In all new buildings, where the building structure to which ZX® Panel is to be installed complies with the NZ Building Code, or in existing buildings where it has been established by the designer and installer have established that that the building structure is suitable for the intended building work.</p> <p>On a drained and ventilated cavity system.</p> <p>Aluminium joinery.</p>	<p>➤ Where material group 1 or greater is required.</p> <p>➤ All building heights subject to wind design load limitations. The balance of the external wall (design & construction) must comply with the relevant fire provisions of the NZ Building Code.</p> <p>➤ ZX® Panel must be connected to an earthing system (ground).</p> <p>➤ With a rigid air barrier in accordance with table 23, E2/AS1 or that has a current product certificate and where the conditions of that certificate may be met.</p> <p>➤ Joinery that has been manufactured to NZS 4211:2008 or that has a current product certificate and where the conditions of that certificate may be met.</p>

USEFUL INFORMATION

For information on the design, installation and maintenance of ZX® Panel and for our warranty refer to www.zxpanel.com.

VERSION:

CONDITIONS OF USE

- No product substitution of any ZX® Panel componentry is allowed
- ZX® Panel must be installed by an approved ZX® Panel installer who is able to meet their obligations where Restricted Building Work (RBW) applies.

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all ZX® Panel requirements, ZX® Panel will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement ¹	Demonstrated by
B1 Structure B1.3.1 B1.3.2 B1.3.3 (a, b, c, f, h, l, j, m & q) B1.3.4 (a, b, c, d, e).	Verification Method B1/VM1.	<ul style="list-style-type: none"> ➤ Façade Lab test to NZS 4284: 2008 incl. E2/VM1. ➤ Façade Lab is IANZ accredited. ➤ Altus Lab test to E2/VM1. ➤ Altus Lab IANZ. ➤ Engineering calculations to AS/NZS 1170, AS/NZS 4600, AS/NZS 3604.
B2 Durability B2.3.1(b) B2.3.2 (a).	Verification Method B2/VM1.	<ul style="list-style-type: none"> ➤ Powder coated to AAMA 2603-02.
C3 Fire affecting Areas Beyond the Fire Source C3.7 (a).	Acceptable solution C/AS2 1st Edition, June 2019.	<ul style="list-style-type: none"> ➤ Metal is non-combustible.
E2 External Moisture E2.3.2, E2.3.5 E2.3.7 (a) & (b).	Verification Method E2/VM1. AS/NZS 4284.	<ul style="list-style-type: none"> ➤ Façade Lab test to NZS 4284: 2008 incl E2/VM1. ➤ Façade Lab is IANZ accredited. ➤ Altus Lab test to E2/VM1. ➤ Altus Lab IANZ.
F2 Hazardous Building Materials F2.3.1	Historic flash-off of powder-coating applications and inert aluminium metal.	<ul style="list-style-type: none"> ➤ Flash-off met in accordance with AAMA 2603-02.

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

- Façade Lab. [2014]. Test Report No. 14/02. *Performance tests on 'ZX Panel' cladding systems in accordance with NZ Building Code E2/VM1:2011.*
- Barnard, D [2015]. *Structural Calculations to AS/NZS 1170, AS/NZS 4600 and NZS 3604.* Red Co Consulting Engineers.
- Pearse-Danker, H. [2016]. *ZX Panel Fixing System Peer Review.* E3 Professional Consulting Engineers.
- Altus. [2018]. Test Report No. T541. *Weather-tightness Testing on ZX Panel Pertaining to AS/NZS 4284:2008 and E2/VM1.*
- ZX® Panel [2020]. *Technical Datasheet.*



VERSION:

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Note: Uncontrolled in printed format.

NAME:

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POSITION:

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DATE:

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Len Helms

Managing Director

Signed on behalf of ZX® Panel Ltd:

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.



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