

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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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location 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. In all exposure zones as defined in NZS 3604:2011. Any proximity to a relevant boundary.	> Where 'microclimatic conditions' (sec 4.2.4, NZS 3604:2011) apply, contact ZX® Panel for technical advice. > The balance of the external wall is to comply with all NZ Building Code obligations.
Building All building uses. 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. On a drained and ventilated cavity system. With aluminium joinery.	> Where material group 1 or greater is required. > 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. > ZX® Panel must be connected to an earthing system (ground). > 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. > 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.

USEFUL INFORMATION

For design, installation and maintenance information, refer to zxpanel.com.

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	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"> ➤ Engineering calculations to AS/NZS 1170, AS/NZS 4600 and NZS 3604. ➤ Wind load tested to 2.5 kPa in accordance with AS/NZS 4284 and E2/VM1 by IANZ accredited test facilities [Façade Lab, 30/06/2014; Atlas, 09/05/2018].
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 [ZX® Panel, 2020].
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 and ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Tested in accordance with AS/NZS 4284 and E2/VM1 by IANZ accredited test facilities [Façade Lab, 30/06/2014; Atlas, 09/05/2018]. ➤ System in keeping with the principles of E2/AS1 for cavity construction.
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Flash-off met in accordance with AAMA 2603-02 [ZX® Panel, 2020].

SOURCES OF INFORMATION

- Façade Lab. [30/06/2014]. *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. Weathertightness Testing on ZX Panel Pertaining to AS/NZS 4284:2008 and E2/VM1.*
- ZX® Panel [2020]. *Technical Datasheet.*

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™.

ZX® Panel Ltd confirms that if ZX® Panel 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.

Date of first issue: 15/11/2018

Date of current issue: 27/10/2023

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zxpanel.com/why-zx-pane.phpl



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of ZX® Panel Ltd 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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