

## PANELTEC INDURAPLATE SOLID ALUMINIUM CASSETTE CLADDING SYSTEM



### PURPOSE

Paneltec New Zealand Ltd supplies the Induraplate Solid Aluminium Cassette Cladding system (Induraplate) for use as an external wall cladding or ventilated rainscreen façade over flexible or rigid membrane.

### EXPLANATION

Induraplate cassette panels are comprised of 3 mm thick, minimum 3001 series grade aluminium and finished with a 22–28 micron thickness Kynar 500® PVDF or FEVE coating system to AAMA 2605. The support system comprises extruded aluminium brackets that are screw-fixed and junctions sealed. The required ventilated cavity is achieved with either packers under the angles or supplied top hats.

Panels are supplied with a removable protective film which provides 45 days protection against construction-related damage once installed.

The panels come in 3 length options (2500 mm, 3200 mm, 4000 mm) and 1 width options (1575 mm). The face area density is 8.1 kg/m². A range of custom shapes, curves, dimensions, colours, and surface finishes are available on request.

Supplied support system components include:

- Indurafix 1st Fix Z (AZ2310)
- Indurafix 2nd Fix Z (AZ4025)
- Indurafix Top hat 24mm (T2050) (custom heights available)
- Exterior façade grade sealant.



For further assistance please contact:

- ☎ 0508 726 358
- ✉ [info@paneltec.co.nz](mailto:info@paneltec.co.nz)
- 🌐 [paneltec.co.nz](https://paneltec.co.nz)

### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b>	
Up to a design wind pressure (ULS) of 4.5 kPa, which includes all wind zones defined in NZS 3604:2011.	➤ Maximum design wind pressure (ULS) for flexible membrane is 4 kPa.
In all exposure zones as defined in NZS 3604:2011.	➤ For use where adverse microclimatic conditions apply (refer to paragraph 4.2.4, NZS 3604:2011), refer to Paneltec.
Any proximity to a relevant boundary.	➤ All other parts of the external wall assembly must comply with all relevant NZ Building Code Protection from fire clauses.
<b>Building</b>	
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.	<ul style="list-style-type: none"> <li>➤ Where the design wind pressure exceeds 2.5 kPa, the primary structure is subject to specific design.</li> <li>➤ Induraplate must be connected to an earthing system (ground).</li> </ul>
On timber or lightweight steel framing.	
As an external cladding.	<ul style="list-style-type: none"> <li>➤ Induraplate must be installed over a drained and ventilated cavity.</li> <li>➤ A weathertight, flexible or rigid underlay must be installed that meets the characteristics of Table 23 of E2/AS1.</li> </ul>
On buildings of any building height.	➤ All other parts of the external wall assembly must comply with all relevant NZ Building Code Protection from fire clauses.

### CONDITIONS OF USE

Induraplate must be designed and installed in accordance with the Paneltec Induraplate Solid Aluminium Panels Technical Manual [01/2020] and Paneltec details [n.d.a, n.d.b].

### USEFUL INFORMATION

For design, installation and maintenance information, refer to [paneltec.co.nz](https://paneltec.co.nz).

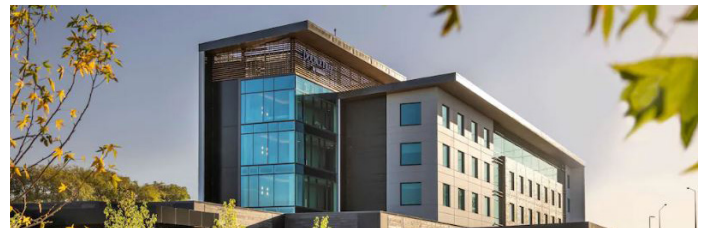
## PERFORMANCE CLAIMS

If designed, installed, and maintained in accordance with all Paneltec New Zealand Ltd's requirements, Induraplate will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
<b>B1 Structure</b> B1.3.1, B1.3.2, B1.3.3 (a, b, c, e, h, j, m, q), B1.3.4 (a, b, c, d, e)	VERIFICATION METHOD B1/VM1	<ul style="list-style-type: none"> <li>Engineering Span Tables calculated to AS/NZS 1170.2 [Enertren, 23/01/2019].</li> <li>Tested to AS 4284:2008 [Vipac, 11/11/2020a, 11/11/2020b].</li> <li>Hail Impact Testing to ANSI FM: 4473 [Ian Bennie &amp; Associates, 08/2018].</li> </ul>
<b>B2 Durability</b> B2.3.1 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Powder coating tested according to AAMA 2605 which has greater performance requirements than AAMA 2604, which is cited in SNZ TS 3404:2018 for structural steelwork [Intertek, 30/08/2018, 18/04/2019].</li> </ul>
<b>C3 Fire affecting areas beyond the fire source</b> C3.5, C3.7 (a)	ACCEPTABLE SOLUTION C/AS2	<ul style="list-style-type: none"> <li>Non-combustible in accordance with AS 1530.1-1994, cited in AS 1530.4-2005, tested by NATA accredited facility [CSIRO, 21/06/2016].</li> </ul>
<b>E2 External Moisture</b> E2.3.2, E2.3.5, E2.3.7 (a, b, c)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Tested to AS/NZS 4284:2008 for both a rigid and flexible membrane [Vipac, 11/11/2020a, 11/11/2020b].</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Aluminium is an inert metal.</li> <li>Kynar 500® PVDF coating claimed to be PFAS surfactant-free [Arkema, n.d.].</li> <li>Use in accordance with supplier's safety requirements.</li> </ul>

## SOURCES OF INFORMATION

- Paneltec. [01/2020] Induraplate Solid Aluminium Panels Technical Manual. Version 1.1.
- Paneltec. [n.d.a] Induraplate Direct Fix System.
- Paneltec. [n.d.b] Induraplate Top Hat System.
- Enertren. [23/01/2019] *Vitradual Wind Loading to AS1170.2*. Doc number FAR-092.
- Vipac Engineers and Scientists Limited. [11/11/2020a] *AS 4284 testing on facades Test Report - Vitradual with Flexible Membrane*. Report no. 30B-19-0059-TRP-6774697-2.
- Vipac Engineers and Scientists Limited. [11/11/2020b] *AS 4284 testing on facades Test Report - Vitradual with Rigid Membrane*. Report no. 30B-19-0059-TRP-6774698-2.
- Ian Bennie & Associates. [08/2018] *Vitradual 3mm Aluminium Cladding Panel Hail Impact Test*. Test report number. 2018-040-S2.
- Intertek. [30/08/2018] *Test Report AAMA 2605-17*. Report no. 180710004SHF-BP-8.
- Intertek. [18/04/2019] *Test Report AAMA 2605-05*. Report no. 180712001SHF-BP-3.
- CSIRO. [21/06/2016] *Combustibility Test for Materials in accordance with AS 1530.1-1994*. Report No. FNC11690.
- Arkema. [n.d.] *Fluorosurfactant Free Kynar® PVDF Resin*. Retrieved from <https://www.kynar500.arkema.com/en/product-information/fluorosurfactant-free/>. [Accessed on 20/10/2022].



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™.

[paneltec.co.nz/project/induraplate/](https://paneltec.co.nz/project/induraplate/)



Paneltec New Zealand Ltd confirms that if the Induraplate Solid Aluminium Cassette 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.

**Date of first issue:** 28/11/2022

**Date of current issue:** 28/02/2025

**NZBN:** 9429048397919

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Paneltec New Zealand 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.

90566D6A68E04C0DCA258AB4001045C0