

PYRAMID-ALIPANEL

PURPOSE

Pyramid-AliPanel (AliPanel) is a prefinished aluminium composite panel (ACP) suitable for use as a wet wall lining in commercial or residential building applications. The focus of this pass™ relates to AliPanel's use in a building context, but it is also suitable for use as signage board and in the transport industry.

EXPLANATION

The panel consists of a polyethylene core, sandwiched between two 0.30 mm or thicker aluminium sheets, finished with a polyester coating. They are supplied in numerous colours including white, black, silver, red, blue, yellow. Polyester (PE) paint is the most common surface coating, but sheets may also be available in FEVE and PVDF coatings.

The panels have the following dimensions:

- > Length (mm): 2400, 2440, 3050, 3660
- > Width (mm): 1200, 1220, 1500, 1550
- > Thickness (mm): 4

The above lengths and widths are the most common, other dimensions may be available on request. Plywood City Ltd supplies mouldings and jointers for use when installing the panel as a lining.



For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope

Location

In conjunction with a timber or steel framed structure that complies with the N.Z. Building Code or where the designer and/or installer has established that the existing structure is suitable for the intended building work.

In all internal uses where fire rating is required up to and including Material Group 1.

Limitations

- > The panel must be earthed when surrounding or touching an electric installation or power source.



USEFUL INFORMATION

For information on the design, installation, and maintenance of AliPanel, and for our warranty refer to www.pyramidpanels.co.nz

PERFORMANCE CLAIMS

If designed, installed, and maintained in accordance with all Plywood City Ltd requirements, AliPanel will comply with or contribute to compliance with the following performance claims:

N.Z. Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
B1 Structure B1.3.1. B1.3.2 B1.3.3 (a, e)	ALTERNATIVE SOLUTION	➤ Passed ASTM tests D790 for flexural elasticity and bending radius, D732 for shear resistance, E330 for wind pressure resistance, D903 for adhesive strength. [Jiangsu Aluwedo® Aluminium Composite Panel Co. Ltd, n.d.].
B2 Durability B2.3.1 (c)	ALTERNATIVE SOLUTION	➤ Tested in accordance with ISO 13501-1:2018, achieves B-s1, d0, and tested to ASTM E84-17 for surface burning [SGS, 08/08/2022; Intertek Testing Service Ltd, 2017]. ➤ Passed ASTM tests E331 for properties against water, E283 for properties against air, D648 for thermal deformation, D696 for thermal expansion. [Jiangsu Aluwedo® Aluminium Composite Panel Co. Ltd, n.d.].
C3 Fire affecting areas beyond the source C3.4 (a) (Material group no.1)	ACCEPTABLE SOLUTION C/AS2 – C/AS6	➤ Tested in accordance with ISO 13501-1:2018, achieves B-s1, d0, and tested to ASTM E84-17 for surface burning [SGS, 08/08/2022; Intertek Testing Service Ltd, 2017].
E3 Internal moisture E3.3.4, E3.3.5, E3.3.6	ALTERNATIVE SOLUTION	➤ Passed ASTM E331 tests for properties against water. [Jiangsu Aluwedo® Aluminium Composite Panel Co. Ltd, n.d.].
F2 Hazardous building materials F2.3.1	ALTERNATIVE SOLUTION	➤ Passed test IEC 62321:2008 for cadmium, lead, mercury, hexavalent chromium, sum of PBBs, sum of PBDEs. [Jiangsu Aluwedo® Aluminium Composite Panel Co. Ltd, n.d.].
G3 Food preparation and prevention of contamination G3.3.2 (a)	ALTERNATIVE SOLUTION	➤ Polyester coating does not support growth of bacteria or fungi and withstands regular cleaning. ➤ Passed ASTM E331 tests for properties against water. [Jiangsu Aluwedo® Aluminium Composite Panel Co. Ltd, n.d.].

SOURCES OF INFORMATION

The following information was relied upon to prepare this pass:

- Certification ECM Mark (2017). No. OP 170110.JAA0084. EN 14509:2013. *Self-supporting double skin metal faced insulating panels. Factory-made products.*
- Intertek Testing Service Ltd (2017). Report No. 171114002SHF-BP-2. ASTM E84. *Fire classification of construction products and building elements. Classification using test data from reaction to fire tests.*

- Jiangsu Aluwedo® Aluminium Composite Panel Co. Ltd (n.d.) Product data sheet. Aluwedo® Aluminium Composite Panel
- SGS (08/08/2022). Test Report No.: SHFS2207000356FF.

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 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™.

Plywood City confirms that if Pyramid-AliPanel 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 s14 G of the Building Act.

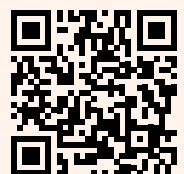
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SCAN OR CLICK THIS QR CODE FOR A FULL DOWNLOAD OF COMPLIANCE DOCUMENTATION FOR THIS PASS™.

www.plywoodcity.co.nz



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of Plywood City and 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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