

# ALPOLIC® NC PANEL

## PURPOSE

ALPOLIC® NC is supplied by PSP that, once folded or otherwise fabricated, may be used as part of an external wall cladding or as an internal wall lining, including in wet areas. It is intended to be used in conjunction with a fixing system designed specifically for use with aluminium composite panels.

## EXPLANATION

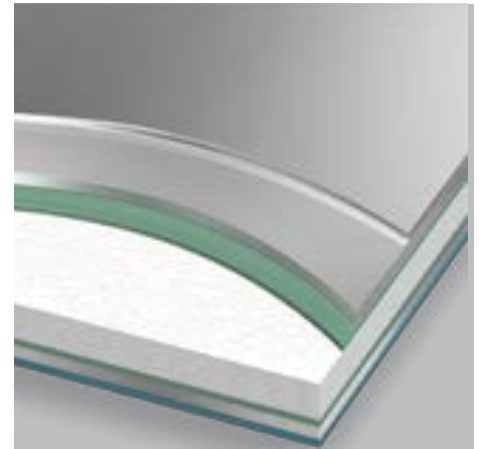
ALPOLIC® NC is a flat 4 mm aluminium composite sheet made from two aluminium alloy 3105-H14 outer skins of 0.5 mm thickness with a 3 mm non-combustible mineral core.

The sheets are coated with a LUMIFLON® FEVE resin.

ALPOLIC® NC is available in panels with the following sizes:

- › thickness (mm) 4
- › width (mm) 1270, 1575
- › length (mm) 2498, 3099, 4000, 5000 (special sheet lengths, between 1800 mm and 7200 mm, on request).

The manufacture of ALPOLIC® NC uses some recycled materials. Following its use as an external cladding, the aluminium and core material can be reutilised.



For further assistance please contact:

- ☎ 09 415 2800
- ✉ customerservices@psp.co.nz
- 🌐 www.psp.co.nz



## SCOPE AND LIMITATIONS OF USE

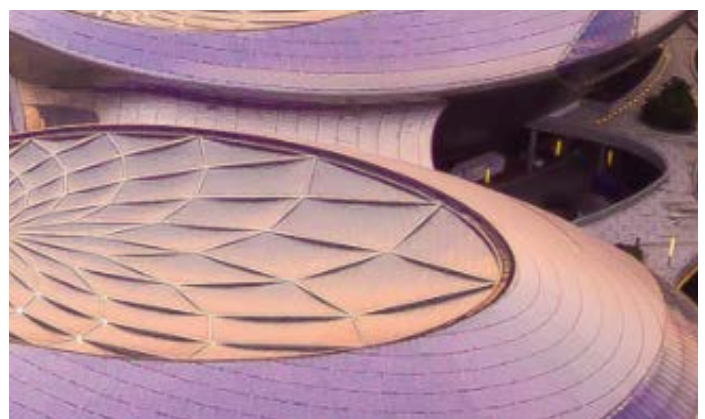
Scope	Limitations
<p><b>Location</b> <i>Only applies where used as an external cladding.</i></p> <p>In all exposure zones as defined in NZS 3604:2011.</p> <p>Any proximity to a relevant boundary.</p>	<ul style="list-style-type: none"> <li>› The panel may not be used where adverse microclimatic conditions apply as set out in paragraph 4.2.4 of NZS 3604:2011.</li> <li>› Where fire code obligations apply, the balance of the external wall must meet these requirements.</li> </ul>
<p><b>Building</b></p> <p>In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work.</p> <p>On building heights up to a design SLS of 4.58 kPa.</p> <p>As an internal lining.</p>	<ul style="list-style-type: none"> <li>› Must be fixed at 300 mm centres.</li> <li>› Where fire code obligations apply, the balance of the external wall must meet these requirements.</li> <li>› The panel must be earthed where surrounding or touching an electric installation or power source.</li> <li>› Where material with a fire rating Material Group Number 1S or greater is required.</li> </ul>

### USEFUL INFORMATION

For further information on ALPOLIC® NC and for our warranty refer to [www.psp.co.nz](http://www.psp.co.nz).

### OTHER CERTIFICATIONS AND APPROVALS HELD BY MITSUBISHI CHEMICALS

- › JCQA. [7/12/2020] ISO 9001:2015 [exp 27/10/2023] Certificate No: JCQA-0161. Retrieved from [https://www.alpolic.com/alpolic-intl/tech\\_quality/](https://www.alpolic.com/alpolic-intl/tech_quality/) [Accessed on 25/08/2021].



## PERFORMANCE CLAIMS

If all relevant PSP requirements are met, ALPOLIC® NC 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, e, f, h, j, q)	Alternative solution	<ul style="list-style-type: none"> <li>› Summary of Technical Data Sheet – ALPOLIC™ NC [Mitsubishi Chemical Infratec, 4/2020].</li> <li>› Serviceability &amp; Cyclic Strength Wind Load Test [James Cook University, 24/02/2011].</li> </ul>
<b>B2 DURABILITY</b> B2.3.1 (b)	Alternative solution	<ul style="list-style-type: none"> <li>› Summary of Technical Data Sheet – ALPOLIC™ NC [Mitsubishi Chemical Infratec, 4/2020].</li> </ul>
<b>C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE</b> C3.4 (a), C3.5, C3.7 (b, c)	Acceptable solution C/AS2	<ul style="list-style-type: none"> <li>› Summary of Technical Data Sheet – ALPOLIC™ NC [Mitsubishi Chemical Infratec, 4/2020].</li> <li>› BRANZ Type Test FH12423-001-C1 Issue 1 [09/02/2021].</li> <li>› BRANZ Type Test FH12423-002-C1 [09/02/2021].</li> <li>› Material Group Number 1S.</li> </ul>
<b>E2 EXTERNAL MOISTURE</b> E2.3.2	Alternative solution	<ul style="list-style-type: none"> <li>› Aluminium is impervious to moisture.</li> <li>› Must be installed in conjunction with a fixing system designed for an ACM with compatible performance metrics.</li> </ul>
<b>E3 INTERNAL MOISTURE</b> E3.3.4	Alternative solution	<ul style="list-style-type: none"> <li>› Aluminium is impervious to moisture.</li> </ul>
<b>F2 HAZARDOUS MATERIALS</b> F2.3.1	Alternative solution	<ul style="list-style-type: none"> <li>› Safety data sheet [Mitsubishi Chemical Infratec, 01/12/2018].</li> </ul>

## SOURCES OF INFORMATION<sup>1</sup>

- › Mitsubishi Chemical Infratec. [01/12/2018] *Safety data sheet (SDS)*. Retrieved from [https://www.alpolic.com/alpolic-intl/wp-content/uploads/2019/10/msds\\_a1.pdf](https://www.alpolic.com/alpolic-intl/wp-content/uploads/2019/10/msds_a1.pdf). [Accessed on 04/10/2021].
- › Mitsubishi Chemical Infratec. [04/2020] *Summary of Technical Data Sheet – ALPOLIC™ NC / ALPOLIC™ A1*. Retrieved from [https://www.alpolic.com/alpolic-intl/wp-content/uploads/2019/10/specs\\_a1.pdf](https://www.alpolic.com/alpolic-intl/wp-content/uploads/2019/10/specs_a1.pdf). [Accessed on 04/10/2021].
- › BRANZ. [09/02/2021] *Type test ISO 5660 parts 1 & 2*. Report no. FH12423-001-C1 Issue 1. Retrieved from <https://www.branz.co.nz/appraisal-codemark-certificates/alpolic-nc/>. [Accessed on 04/10/2021].
- › BRANZ. [09/02/2021] *Type test ISO 5660-1:2002 as modified by section 5.8.1 C/AS2 Appendix 7C.1.2*. Report no. FH12423-002-C1. Retrieved from <https://www.branz.co.nz/appraisal-codemark-certificates/alpolic-nc/>. [Accessed on 04/10/2021].
- › Frye, U. James Cook University. [24/02/2011] *Serviceability and Cyclic Strength Wind Load Testing of ALPOLIC/fr 4 mm Wall Cladding*. Report No. TS805.

1. 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.

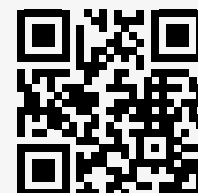
PSP Ltd confirms that if ALPOLIC® NC is used in accordance with the requirements of this pass™ the product will comply with the Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14 G of the Building Act.

**Date of first issue:**

**Date of current issue:**

**NZBN:** NZBN 9429038193958

Scan or click this QR code for a full download of Compliance Documentation for this pass™.  
[www.psp.co.nz](http://www.psp.co.nz)



*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the PSP Ltd 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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