

Certificate no: CMNZ30150

Version: A

Original issue date: 28 August 2023

Version date: 28 August 2023

Renewal date: 28 August 2026

Product Certificate

Metalcraft Insulated Panel Systems AspirePanel & AspireSpan System

1. Certificate Holder Details



Metalcraft Insulated Panels Limited
139 Roscommon Road, Wiri, Auckland, 2033
Phone: +64 9 277 8844
Email: technical@metpanel.co.nz
Web: <https://www.metalcraftgroup.co.nz/>

2. Product Certification Body

Global-Mark Pty Ltd
Trading as Global-Mark
57 Willis Street, Wellington, 6011
customer.service@global-mark.co.nz
+64 9 889 0622
www.global-mark.co.nz

Complaints: The complaints process for this certificate can be found here:
www.global-mark.co.nz/complaints

Global-Mark Managing Director.



Herve Michoux

3. Description of Building Method or Product

The AspirePanel wall panels and AspireSpan roof panels are lightweight, thermally efficient wall and roof panels manufactured in New Zealand. The panels have a polyisocyanurate (PIR) core sandwiched between 0.59 mm layers of galvanised and/or Zinalume steel and with a factory applied Colorsteel finish. The colorsteel finish will depend on the specific exposure zone and use. The panels are supplied in 1,000 mm width, custom lengths and in thicknesses (mm) of 50, 75, 100 & 150. The thickness determines thermal performance and span capability. The panels are supplied with a tongue and groove joint and a lapped corrugation on both edges. The facings are available in the following profiles: Flat smooth profile, Silkline, Mesa and Ribbed indented. See Specification Guide - Metalcraft PIR Panel V1 (Nov 2019) for ancillary items.

4. Intended use of Building Method or Product

AspirePanel and AspireSpan by Metalcraft Insulated Panel Systems may be used as insulated, fire-resistant, fully finished wall and roof panels for all buildings within the scope of limitations detailed below.

5. New Zealand Building Code Provisions

The AspirePanel wall panels and AspireSpan roof panels, if designed, used, installed and maintained in accordance with the conditions of this Certificate will comply with or contribute to compliance with the following performance provisions of the NZ Building Code:

Clause B1 STRUCTURE:	Performance B1.3.1, B1.3.2 & B1.3.4, for the relevant physical conditions of B1.3.3 (a), (b), (f), (g), (h) & (l)
Clause B2 DURABILITY:	Performance B2.3.1 (b) & B2.3.2 (b)
Clause C3 FIRE:	Performance C3.4 (a), C3.5 & C3.7 (a)
Clause E2 EXTERNAL MOISTURE:	Performance E2.3.1, E2.3.2, E2.3.3 & E2.3.7
Clause E3 INTERNAL MOISTURE:	Performance E3.3.1, E3.3.4, E3.3.5 & E3.3.6
Clause F2 HAZARDOUS BUILDING MATERIALS:	Performance F2.3.1
Clause G3 FOOD PREPARATION:	Performance G3.3.2 (a) & (b)
Clause H1 ENERGY EFFICIENCY:	Performance H1.3.1 & H1.3.2E



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6. Conditions and Limitations of Use

- The Metalcraft AspirePanel and AspireSpan insulated panels are certified for use on buildings:
 - In all wind zones up to and including Extra High wind zone as defined in NZS3604:2011 for timber framed buildings, or extra high as defined by NASH Building Envelope Solution:2019 for steel framed buildings, or a calculated wind design pressure (ULS) of no more than 2.5 kPa, and
 - In all Exposure Zones (except Microclimates) as defined in NZS 3604:2011 for timber framed buildings or in all Exposure Zones (except Microclimates) as defined in NASH Building Envelop Solution:2019 for steel framed buildings:
 - In exposure Zone C, Colorsteel Maxx or Endura may be specified, and
 - In exposure Zone D, Colorsteel Maxx must be specified, and
 - Less than 10 metres in building height, and
 - In any proximity to any relevant boundary.
- The Metalcraft AspirePanel insulated panels are certified for use as an Internal Wall or External Wall cladding on buildings:
 - In accordance with published AspirePanel load span tables (reference 23664-1, dated 23 April 2023), and
 - Where the building design requires the wall (external or internal) to be fire rated, a 200mm AspirePanel shall be specified, a Fire Resistance Rating (FRR) greater than —/60/30 is beyond the scope of this certificate and shall be subject to Specific Engineering Design.
- The Metalcraft AspireSpan insulated panels are certified for use as a roofing cladding on buildings:
 - In accordance with published AspireSpan load span tables (reference 23664-1, dated 23 April 2023), and
 - With a minimum roof pitch of 3°, and
 - With a snow loading of up to 1.0 kPa, and
 - With ceiling loadings not exceeding 0.25 kPa and services loadings not exceeding 0.3 kPa.
- All fasteners and fixings shall be in accordance with NZS 3604:2011 Section 4 for timber framed buildings, or Table 20, Table 21 and Table 22 of NASH Building Envelope Solution:2019 for steel framed buildings.
- The Metalcraft AspirePanel and AspireSpan insulated panels must be specified, installed and maintained in accordance with the following applicable technical literature:

a. AspirePanel Brochure	May 2022
b. AspireSpan Brochure	May 2022
c. AspirePanel & AspireSpan Load Span Tables (ref 23664-1)	23 April 2023
d. Specification Guide for Metalcraft SuPIRspan Panels	Ver 1 – Nov 2019
e. AspirePanel – External Wall Details	Rev 1.0 – 19 Dec 2022
f. AspireSpan – Commercial Roofing Details	Rev 1.0 – 30 Jan 2023



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|---|-----------------------|
| g. AspireSpan – Residential Roofing Details | Rev 1.0 – 30 Jan 2023 |
| h. NZ Metal Roof and Wall Cladding Code of Practice | Ver 3.0 – Mar 2023 |
| i. Thermopanel EPS – Controlled Environment Details | 2016 |
6. Joinery shall comply with NZS4211:2008.
7. The designer shall provide a signed declaration for submission with the building consent application that the use of this product in the proposed building work falls within the scope of this certificate and that all design conditions of this certificate have been met.

The installer shall supply a signed Declaration that the product has been installed in accordance with this certificate, for consideration for issuing a Code Compliance Certificate (CCC).

7. Health and Safety Information

Standard industry safety practices and manufacturer safety requirement as detailed in the technical literature including the applicable MSDS and SDS must be observed at all times. Please refer to:

- NZ Steel Safety Data Sheet – Blend Slag, dated 21 Feb 2019
- NZ Steel Safety Data Sheet – KOBM Slag, dated 21 Feb 2019
- Uroxsys Safety Data Sheet – Panel Laminating Adhesive JV6-5-1, dated 18 Jun 2019

8. Basis for Certification

The certification decision is based on independent technical review(s) of test report(s), engineering opinion(s) and other documented evidence(s), factory audit(s) and site review(s)

Code Clause	Compliance pathway	Evidence
B1 STRUCTURE:	Alternate solution – Comparison to B1/AS1 & B1/VM1, testing, assessment and expert judgement	Items 1, 2, 3, 9, 11, 12, 13, 14, 15, 16, 17 & 18
B2 DURABILITY:	Alternate solution – Expert judgement	Items 3, 9, 19, 20, 21 & 22
C3 FIRE:	Verification method – C/VM2, testing and assessment	Items 1, 2, 23, 24, 25 & 26
E2 EXTERNAL MOISTURE:	Verification method – E2/VM1, testing and assessment	Items 1, 2, 4, 5, 6, 7, 8, 9, 10 & 27
E3 INTERNAL MOISTURE:	Acceptable solution – E3/AS1, testing and assessment	Items 1, 2, 4, 7, 8, 10, 31, 32, 33 & 34
F2 HAZARDOUS BUILDING MATERIALS:	Alternate solution – Expert judgement	Items 3, 28, 29 & 30



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G3 FOOD PREPARATION:	Acceptable solution – G3/AS1, assessment	Items 1, 2, 4, 7, 8, 10 & 31
H1 ENERGY EFFICIENCY:	Acceptable solution – H1/AS1, testing and calculation	Items 1, 2, 3, 32, 33 & 34

9. Supporting Documentation for Certification

Rev	Author	Description	Date and/or Revision
1	Metalcraft Insulated Panels	AspirePanel Brochure	May 2022
2	Metalcraft Insulated Panels	AspireSpan Brochure	May 2022
3	Metalcraft Insulated Panels	Specification Guide for Metalcraft SuPIRspan Panels	Ver 1 – Nov 2019
4	Metalcraft Insulated Panels	AspirePanel – External Wall Details	Rev 1.0 – 19 Dec 2022
5	Metalcraft Insulated Panels	AspireSpan – Commercial Roofing	Rev 1.0 – 30 Jan 2023
6	Metalcraft Insulated Panels	AspireSpan – Residential Roofing	Rev 1.0 – 30 Jan 2023
7	Metalcraft Insulated Panels	Aluminium Extrusions Brochure	Sep 2019
8	Metalcraft Insulated Panels	Ancillaries Brochure	Ver 1.0 – Nov 2019
9	NZ MRM	NZ Metal Roof and Wall Cladding Code of Practice	Ver 3.0 – Mar 2023
10	Metalcraft Insulated Panels	Thermopanel EPS – Controlled Environment (Standard details)	2016
11	Airey Consultants	Metalcraft wall panel structural performance	2 Dec 2016
12	RedCo Engineers	Screw fixing for roof panel	21 Feb 2014
13	RedCo Engineers	PIR Panel Roof, Project 19824	Issue 1 – 24 Oct 2019
14	RedCo Engineers	Metalcraft Insulated Panels – AspirePanel & AspireSpan Load-span Curves (ref 23664-1)	23 April 2023



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15	RedCo Engineers	Aspire Span Guidelines for Metalcraft Insulated Panels – Structural Report (ref 23950-1)	4 May 2023
16	BRANZ	Test report DC11701-002 – Report on testing of foam panels	14 Nov 2019
17	Metecno PIR	Measurement of Tensile Strength – Poly New Glue	26 May 2021
18	Metecno PIR	Measurement of Tensile Strength – Poly Old Glue	26 May 2021
19	New Zealand Steel	Information Bulletin 12 – Maintenance Recommendations – Steel Roofing and Cladding	Jun 2015
20	New Zealand Steel	Incompatible Materials Bulletin	Oct 2018
21	New Zealand Steel	Environmental Categories, Warranty & Product Maintenance Recommendations	Oct 2018
22	Uroxsys	Uroxsys Panel Laminating Adhesive 180 Second (PLA 180S) Durability Statement	10 Aug 2021
23	BRANZ	Test report FI11055-001 – AS ISO9705 & ISO 9705 Fire Test of ThermoPanel PIR	17 Apr 2019
24	BRANZ	Test certificate FI13356-002 – ISO 9705 Group Classification Number	22 Oct 2020
25	BRANZ	Test report FI13647-001 Issue 1 – AS ISO 9705 & ISO 9705 Fire Test of Metalcraft SUPIR Panel with Conqueror Core 100mm	6 May 2021
26	BRANZ	Test summary – FR 11229 TT – AS 1530.4 Testing of NZPIR Insulated Wall	11 Apr 2019
27	WEC	Performance tests on Metalcraft Insulated Panel façade system in accordance with AS/NZS 4284:2008 ‘Testing of Building Facades’	21 Jun 2016
28	New Zealand Steel	Safety Data Sheet – Blend Slag	Ver 4.0 – 21 Feb 2019
29	New Zealand Steel	Safety Data Sheet – KOBM Slag	Ver 3.0 – 21 Feb 2019



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30	Uroxsys	Safety Data Sheet – Panel Laminating Adhesive JV6-5-1	Ver 1.1 – 18 Jun 2019
31	The Building Business	G3: Food Preparation & Prevention of Contamination	4 May 2017
32	BRANZ	Test Report DC11701-001 – Thermal Testing of an Insulation Product	14 Nov 2019
33	BRANZ	Test Report DC13505-001-01 – Thermal Testing of an Insulation Product	14 May 2021
34	CNZ Insulation	CNZ Insulation Board Brochure	2021

* These documents were provided commercial in confidence and are not publicly available

10. Supporting Information About Description (Optional)

The AspirePanel wall panels and AspireSpan roof panels are manufactured using a polyisocyanurate (PIR) core sandwiched between 0.59 mm layers of galvanised and/or Zinalume steel and with a factory applied Colorsteel finish and may be fixed to structural framing and finished with proprietary aluminium extrusions and ancillary products, as detailed in:

- Metalcraft Insulated Panels – Aluminium Extrusions Brochure, September 2019
- Metalcraft Insulated Panels – Ancillaries Brochure, November 2019

11. Supporting Information About Intended Use (Optional)

The AspirePanel wall panels and AspireSpan roof panels, extrusions, accessories and approved construction details are detailed in the following technical documentation:

- Metalcraft Insulated Panels – Specification Guide for Metalcraft SuPIRspan Panels, November 2019
- Metalcraft Insulated Panels – AspirePanel – External Wall Details, December 2022
- Metalcraft Insulated Panels – AspireSpan – Commercial Roofing, January 2023
- Metalcraft Insulated Panels – AspireSpan – Residential Roofing, January 2023
- Metalcraft Insulated Panels – Thermopanel EPS – Controlled Environment (Standard details), 2016

12. Supporting Use About Conditions and Limitations of Use (Optional)

- In addition to the limitations of Condition 1 (b), other design features and parameters that limit the scope of E2/VM2 (BRANZ EM7) may also limit the scope of this certificate and must be taken into account by the designer.



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Signatures

If the signature does not fit on the first page in the column on the left please include the relevant signatures here:

Nil

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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