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Certificate no: CMNZ30078
Version: F
Original issue date: 28 June 2017
Version date: 14 August 2025
Renewal date: 14 August 2028

Product Certificate

Metalcraft Insulated Panel Systems

1. Certificate Holder Details

Metalcraft Insulated Panel Systems

Metalcraft Insulated Panels Limited
139 Rosscommon Road, Wiri, Auckland, 2033
Phone: +64 9 277 8844
Email: technical@metpanels.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 4 280 6672
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 Metalcraft Insulated Panel Systems comprise Thermospan and Thermopanel panels, and ancillary components such as angles, fixings and flashings. Thermospan and Thermopanel panels consists of steel facings laminated to a Class S (AS1366.3-1992) expanded EPS foam core. The steel facings are as follows:

- Thermospan – external steel facing is 0.59mm COLORSTEEL® MAXAM® G300 AM150 and the internal steel facing is 0.59mm COLORSTEEL® MAXAM®.
- Thermopanel – external and internal facings consist of 0.59mm CP Grade Pre-painted Galvanised Steel G300 Z275, or 0.59mm COLORSTEEL® MAXAM® G300 AM150 depending on application and environmental category.

The Metalcraft Insulated Panels are available in the following thicknesses (mm): 50, 75, 100, 150, 175, 200 and 250.

4. Intended use of Building Method or Product

The Metalcraft Insulated Panel System is certified for use as either:

- a fully finished internal or external wall or
- a roof or wall cladding system

5. New Zealand Building Code Provisions

The System 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), (h) and (j)

Clause B2 DURABILITY: Performance B2.3.1(b) and B2.3.2(b) for roofing and wall cladding elements.
Performance B2.3.1 (a) and B2.3.2 (a) when designed as structural elements

Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE: Performance C3.4(a)

Clause E2 EXTERNAL MOISTURE: Performance E2.3.2, E2.3.5 (contributes to), E2.3.6 (contributes to), E2.3.7.

Clause E3 INTERNAL MOISTURE: Performance E3.3.1 (contributes to), E3.3.4, E3.3.5 and E3.3.6

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Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

Clause G3 FOOD PREPARATION & PREVENTION OF CONTAMINATION: Performance G3.3.2 (a) and (b)

Clause H1 THERMAL EFFICIENCY: Performance H1.3.1 (a) and (b) (contributes to), H1.3.2E (contributes to), and H1.3.3 (c) and (e) (contributes to)

6. Conditions and Limitations of Use

1. The Metalcraft Insulated Panel System is certified for new or existing buildings within the following scope:
    a. Situated in-corrosion zones as defined in NZS3604:2011 with exception of external environmental limitations as categorised as per Manufacturer's Maintenance Guide; and
    b. Located further than 1m from the relevant boundary; and
    c. With either:
        i. A building height of up to 10m in wind zones up to and including extra high as defined in NZS3604:2011; or
        ii. SED by a Chartered Professional Engineer to not exceeding the manufacturer's loadspan tables for Thermospan and Thermopanel when subjected to loads calculated in accordance with AS/NZS 1170 series
    d. Roof pitch minimum of 3 degrees; and
    e. With timber or steel framing.
2. The Metalcraft Insulated Panel System must be specified, designed, installed and maintained in accordance with the set of documents below collectively referenced as Applicable Technical Documentation:
    a. Metalcraft Insulated Panel - Design and Install Guide ThermoSpan | ThermoPanel | AspireSpan® | AspirePanel® (V1.0 May 2025)
    b. Metalcraft Insulated Panel - Maintenance Guide (28/05/2025)
    c. Metalcraft Insulated Panel - ThermoPanel Loadspan Tables and Product Guide (28/05/2025)
    d. Metalcraft Insulated Panel - ThermoSpan Loadspan Tables and Product Guide 28/05/2025)
    e. Metalcraft Insulated Panel - ThermoPanel EPS - Controlled Environment Details (Ref.: TPEPS, 14/04/2025)
    f. Metalcraft Insulated Panel - ThermoPanel EPS - External Wall Details, Vertically Laid (Ref.: TPWD, 07/04/2025)
    g. Metalcraft Insulated Panel - ThermoSpan EPS - Commercial Roofing (Ref: CREPS, 19/12/2024)
    h. Metalcraft Insulated Panel - ThermoSpan EPS - External Wall Details, Vertically Laid (Ref.: TSEW, 24/03/2025)
    i. Metalcraft Insulated Panel - ThermoSpan EPS – Residential Roofing (Ref: RREPS, 19/12/2024)
    j. Redco NZ Ltd Axial Load Capacity Tables for Structural Insulated Panels for Metalcraft Insulated Panels Ltd (Project No. 25690 Issue No. 3, 2 April 2025).
3. Where material used as internal surface lining are to achieve Material Group Number 1-S , the panels must be installed with ancillary components in accordance with the BRANZ Test Report Ref.: FI14228-01-1, otherwise, Material Group Number 2 or 3 is achieved with installation in accordance with BRANZ Report Ref.: FAR 2489.
4. Joinery must comply with SNZ TS 4211:2022.

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5. Ancillary components defined in the Applicable Technical Documentation are part of the Metalcraft Insulated Panel System. This certificate is not applicable where components are substituted with alternative products.
6. Where the panels are intended for use as a loadbearing wall element, diaphragm roof or bracing for wind and seismic loads, the design shall be carried out by a chartered professional engineer and satisfy the following documentation:
    a. Redco Report:24340 Issue 1 Wall to Roof Fixings
    b. Redco Report: 24340 Wall to Roof Fixings Sheets (01-04)
    c. Redco Report: 20295 Issue 3 Bracing Assessment and Bracing Capacities
    d. Redco Specification: TP1 Wall Bracing for Small buildings (70 BU/m)
    e. Redco Specification: TP2 Wall Bracing for Small Buildings (140 BU/m)
    f. Redco Specification: RD1 Wall Bracing for Small Buildings (Roof Panels)
    g. Redco Report: 25690 Issue 3 Axial Load Capacity Tables for Structural Insulated Panels for Metalcraft Insulated Panels Ltd.
7. Where the panels are intended to support suspended ceilings, the design shall be carried out by a Chartered Professional Engineer and satisfy the requirements of Redco Report Ref.: 23950, Issue 5.
8. The product steel facings must be selected and maintained to suit the exposure conditions in accordance with:
    a. New Zealand Steel - Durability Statement for COLORSTEEL® products used in the manufacture of Insulated Panels used in Structural Applications- Issue December 2012; and
    b. New Zealand Steel - COLORSTEEL® Environmental Categories & Warranty Guide – June 2024
9. 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.
10. In existing buildings, the designer signing the declaration referred in condition no 9 must be satisfied that the existing building is adequate for the intended building work. This assessment is outside the scope of this certificate.
11. 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 requirements as detailed in the technical literature including the applicable SDS must be observed at all times.

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 Objective Clause	Compliance pathway
B1 STRUCTURE	Alternative solution – comparison with B1/AS1 and B1/VM1

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B2 DURABILITY	Alternative solution
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	Verification method C/VM2 – by testing
E2 EXTERNAL MOISTURE	Alternative solution - comparison with E2/AS1, NZMRM Code of Practice, wall cladding Verification Method E2/VM1 and referenced standard AS/NZS 4248:2008
E3 INTERNAL MOISTURE	Alternative solution – comparison with E3/AS1
F2 HAZARDOUS BUILDING MATERIALS	Alternative solution
G3 FOOD PREPARATION & PREVENTION OF CONTAMINATION	Alternative solution – comparison with G3/AS1
H1 THERMAL EFFICIENCY:	Acceptable solution – H1/AS1, testing and calculation with Verification Method H1/VM1 and H1/VM2

9. Supporting Documentation for Certification

Nb	Author	Description	Date and/or Revision
01	Metalcraft Insulated Panel	Design and Install Guide ThermoSpan | ThermoPanel | AspireSpan® | AspirePanel®	V1.0 May 2025
02	Metalcraft Insulated Panel	Maintenance Guide	28/05/2025
03	Metalcraft Insulated Panel	ThermoPanel	28/05/2025
04	Metalcraft Insulated Panel	ThermoSpan	28/05/2025
05	Metalcraft Insulated Panel	ThermoPanel EPS - Controlled Environment Details	TPEPS, 14/04/2025
06	Metalcraft Insulated Panel	External Wall Details, Vertically Laid	TPWD, 07/04/2025
07	Metalcraft Insulated Panel	Commercial Roofing	CREPS, 19/12/2024
08	Metalcraft Insulated Panel	External Wall Details, Vertically Laid	TSEW, 24/03/2025

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09	Metalcraft Insulated Panel	Residential Roofing	RREPS, 19/12/2024
10	Redco NZ Ltd	Screw Fixing for Roof Panel - Metalcraft Insulated Panel Systems, Ref.: 13271.	02/2014
11	Redco NZ Ltd	Report: 20295. Issue 3 Bracing Assessment and Bracing Capacities Specifications: - TP1 Wall Bracing for Small Buildings (BU/m 70) - TP2 Wall Bracing for Small Buildings (BU/m 140) RD1 Wall Bracing for Small Buildings (Roof Panels)	5 May 2023 22/04/2014 22/04/2014 October 2016
12	Redco NZ Ltd	Report No: 24340. Structural Report – Wall to Roof Fixings for Metalcraft Insulated Panels at Sites within New Zealand Wall to Roof Fixing Sheets 01 to 04	Issue No. 1, 18/09/2023 04/07/2023
13	Redco NZ Ltd	Project No. 23950. Structural Report – Fixing to Underside of Metalcraft Insulated Panels for Metalcraft Insulated Panels Limited	Issue No. 5 25 March 2025
14	Redco NZ Ltd	Axial Load Capacity Tables for Structural Insulated Panels for Metalcraft Insulated Panels Ltd, Project No. 25690	Issue No. 3 2 April 2025
15	New Zealand Steel	Durability Statement for COLORSTEEL® products used in the manufacture of Insulated Panels used in Structural Applications	Issue December 2012
16	Uroxsys Limited	Uroxsys Limited – Uroxsys Panel Laminating Adhesive 180 Second (PLA 180S) Durability Statement,	10 August 2021
17	New Zealand Steel	COLORSTEEL® Environmental Categories & Warranty Guide	June 2024
18	BRANZ	FAR 2489 Assessment of the Performance of Metal Clad Expanded Polystyrene Sandwich Panels in the AS ISO 9705 Room Fire Test	28 September 2005
19	New Zealand Steel	Council Compliance – Fire Testing – Fire testing of Coated Steel Products	HCA BSS0284
20	The Building Business	Assessment – to C/VM2	04/05/2017

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21	BRANZ	FI14228-01-1-C1 Group Number Classification – Thermopanel EPS 100 mm NZBC Verification Method C/VM2 Appendix A Group Number Classification - 1-S	26/10/2021
22	WEC	Test report: 1437 -Performance tests on Metalcraft Insulated Panel façade system in accordance with AS/NZS 4248:2008 'Testing of Building Facades'	20 21 June 2016
23	Uroxsys Limited	Uroxsys Limited – Safety Data Sheet - Panel Laminating Adhesive JV6-5-1 -Moisture cure single pack urethane adhesive	V1.1 18/06/2019
24	The Building Business	Assessment – comparison to G3/AS1	04/05/2017
25	Plastics Institute of NZ	Versatile EPS – EPS as Thermal Insulation	-

10. Supporting Information About Description (Optional)

Nil

11. Supporting Information About Intended Use (Optional)

Nil

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

Referenced documents (reports, specifications and manuals) can be found at:
https://www.metalcraftinsulatedpanels.co.nz/technical-resources

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.