



PRODUCT CERTIFICATE

Metalcraft Insulated Panel System



CERTIFICATE: CMNZ 30078
Version No: Rev E

3 DESCRIPTION OF BUILDING METHOD OR PRODUCT

The Metalcraft Insulated Panel System comprises:

- Fully finished internal/external wall and roofing panels; and
- The following ancillary components:
 - 40x40x1.6mm aluminium angles
 - 12mm hold-down bolts
 - 10mm mushroom bolts
 - Flashings
 - 4.8x14.3mm (ASMG63.66) aluminium rivets
 - 70x50x5mm plate washers
 - 14 gauge self-drilling screws with 25mm steel washer
 - Silicone sealant

The Metalcraft Insulated Panels are branded as ThermoPanel or ThermoSpan.

They are manufactured from a Class S (AS1366.3-1992) expanded EPS core with factory laminated COLORSTEEL® facings of 0.4 to 0.6mm thickness.

The Metalcraft Insulated Panels are available in the following thicknesses (mm): 50, 75, 100, 150, 200, 250 and 300.

4 INTENDED USE OF BUILDING METHOD OR PRODUCT

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

- A fully finished internal/external wall or roof cladding system; or
- A structural wall system providing bracing capacity for wind and seismic loads

5 NEW ZEALAND BUILDING CODE PROVISIONS

Where the Metalcraft Insulated Panel System is designed, installed and maintained in accordance with the scope and conditions of this Certificate, the Metalcraft Insulated Panel System, will comply or contribute to compliance with following 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),(e),(f),(h) and (j)

1	CERTIFICATE HOLDER DETAILS
	<p>Metalcraft Insulated Panels Ltd 139 Rossccommon Rd, Manukau, Auckland sales@metpanels.co.nz Tel: +64 9 277 8844 , https://www.metalcraftgroup.co.nz/products/metal-insulated-panels/</p>

ORIGINAL ISSUE DATE	VERSION DATE	RECERTIFICATION
28/06/2017	03/03/2023	24/02/2026
8 SIGNATURE		
 Herve Michoux, Global Mark Managing Director		

2	PRODUCT CERTIFICATION BODY
	<p>Global-Mark Pty Ltd 57 Willis Street, Wellington, 6011 customer.service@global-mark.co.nz +64 9 889 0622 www.global-mark.co.nz</p>
	<p>The complaints process for this certificate can be found here: https://www.global-mark.com.au/?s=complaint</p>



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CERTIFICATE V2

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Clause B2 DURABILITY: Performance B2.3.1(a)
Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE: C3.4(a) where a material group number 1 is required.
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 and E3.3.6
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), H1.3.2E for the relevant physical conditions of H1.3.3 (c) and (e)

6 CONDITIONS AND LIMITATIONS OF USE

1. The Metalcraft Insulated Panel System is certified for new or existing buildings within the following scope:
 - a. A risk score of 0-20, calculated using Table 1 & Table 2, Acceptable Solution E2/AS1, Third Edition including amendment 10 (05 November 2020); and
 - b. Situated in all corrosion zones as defined in NZS3604:2011 except microclimate and less than 50M from breaking surf; and
 - c. Located further than 1m from the relevant boundary; and
 - d. 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. A building height determined by specific design limited by a maximum design differential wind pressure (ULS) of 2.5kPa.
 - e. Roof pitch minimum of 3 degrees; and
 - f. With timber or steel framing when used as a cladding.
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 Systems Design and Installation Guide (V1, June 2017)
 - b. Metalcraft Insulated Panel Systems Care and Maintenance (V1, May 2017)
 - c. Metalcraft Insulated Panel Systems Specification (V1, June 2017)
 - d. Metalcraft Insulated Panels ThermoSpan EPS Commercial Roofing Details (Ref.: CREPS, 14/12/2018)
 - e. Metalcraft Insulated Panels Thermopanel EPS Controlled Environment Details (Ref.: TPEPS, 14/12/2018)
 - f. Metalcraft Insulated Panels ThermoSpan EPS External Wall Details (Ref.: TPWD, 14/12/2018)
3. Where material used as internal surface lining are to achieve Material Group Number 1 (determined under the condition of ISO9705:1993), the installation must be with ancillary components as follows:
 - a. Steel base tracks.
 - b. Thermopanel EPS panels joined with stainless steel rivets at 500mm centres. and sealed with Holdfast Firecyl intumescent acrylic sealant.
 - c. 60x60x0.5mm steel angles fixed with stainless steel rivets at 200mm centres at wall corner junctions.
 - d. 80x130x0.5mm steel angles fixed with stainless steel rivets at 200mm centres at wall to ceiling junctions, where 130mm leg of the angle is against the wall.

otherwise Material Group Number 2 is achieved:

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4. Joinery must comply with NZS 4211:2008 including amendment 1.
5. Ancillary components are part of the Metalcraft Insulated Panel System. This certificate is not applicable where components are substituted with alternative products.
6. 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.
7. In existing buildings, the designer signing the declaration referred in condition #7 must be satisfied that the existing building is adequate for the intended building work. This assessment is outside the scope of this certificate.
8. 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 SDS must be observed at all time.

9 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 with B1/AS1 and B1/VM1	01 to 08
B2 DURABILITY	Alternate solution	09 to 10
C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE	Verification method C/VM2	11 to 16
E2 EXTERNAL MOISTURE	Verification method E2/VM1	17
E3 INTERNAL MOISTURE	Alternate solution	01, 18 to 20
F2 HAZARDOUS BUILDING MATERIALS	Alternate solution	21 and 22
G3 FOOD PREPARATION & PREVENTION OF CONTAMINATION	Alternate solution – comparison with G3/AS1	19 and 21
H1 THERMAL EFFICIENCY:		17, 20 and 23 to 26

10 SUPPORTING DOCUMENTATION FOR CERTIFICATION

Ref	Author	Title	Date and/or revision
01	IPCA Limited- Insulated Panel Council of Australasia	Code of Practice	004.3:2017
02 *	Red Co	Screw Fixing for Roof Panel - Metalcraft Insulated Panel Systems	02/2017
03 *	SCION	Results – P21:2010 1200mm Polystyrene SIP	22/06/2016
04 *	SCION	Results – P21:2010 610mm Polystyrene SIP	23/06/2016
05 *	SCION	Results – P21:2010 2400mm Polystyrene SIP	23/06/2016
06 *	Airey Consultants	Metalcraft wall panel testing	02/12/2016
07 *	Metecno	Metecno – Measurement of Tensile Strength with New Adhesive (Poly New Glue), 100mm x 100mm Polyisocyanurate (PIR) Metecno Panel	26 May 2021

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08 *	Metecno	Metecno – Measurement of Tensile Strength with Old Adhesive (Poly Old Glue), 100mm x 100mm Polyisocyanurate (PIR) Metecno Panel	26 May 2021
09	New Zealand Steel	Durability Statement for Colorsteel products used in the manufacture of Insulated Panels used in Structural Applications	Issue December 2012
10	Uroxsys Limited	Uroxsys Limited – Uroxsys Panel Laminating Adhesive 180 Second (PLA 180S) Durability Statement,	10 August 2021
11 *	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
12 *	Redco NZ Ltd	Group Numbers for METALCRAFT Insulated Panel Products - ThermoPanel EPS & Thermospan EPS	20 March 2013
13	New Zealand Steel	Council Compliance – Fire Testing – Fire testing of Coated Steel Products	HCA BSS0284
14 *	The Building Business	Assessment – to C/VM2	04/05/2017
15 *	BRANZ	FI 5953-TT [2016] AS ISO 9705 & ISO 9705 Fire Test	16/12/2016
16 *	BRANZ	FI13647-001 Issue 1 AS ISO 9705 & ISO 9705 Fire Test of Metalcraft SUPIR Panel with Conqueror Core 100mm	Issue: 6 May 2021
17 *	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
18	Metalcraft	Thermopanel EPS Controlled Environment Details	2016
19	The Building Business	Assessment – comparison to G3/AS1	04/05/20178
20	Plastics Institute of NZ	Versatile EPS – EPS as Thermal Insulation	-
21	New Zealand Steel	Colorsteel – The roof of New Zealand	113766
22	Uroxsys Limited	Uroxsys Limited – Safety Data Sheet - Panel Laminating Adhesive JV5-5-1 -Moisture cure single pack urethane adhesive	18/06/2019
23	Metalcraft Insulated Panel Systems	Technical Specification Sheet	-
24	Metalcraft Insulated Panel Systems	Metalcraft Standard Product Properties – EPS Panel	-
25	Metalcraft Insulated Panel Systems	ThermoPanel EPS	Issue Date June 2009
26	Metalcraft Insulated Panel Systems	ThermoSpan EPS	Issue Date June 2009
* These documents were provided commercial in confidence and are not publicly available			



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11	SUPPORTING INFORMATION ABOUT DESCRIPTION (OPTIONAL)
Nil	
12	SUPPORTING INFORMATION ABOUT INTENDED USE (OPTIONAL)
Nil	
13	SUPPORTING INFORMATION ABOUT CONDITIONS AND LIMITATIONS OF USE (OPTIONAL)
Nil	

End of document



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