

# THERMOPANEL & THERMOSPAN

## THERMOPANEL AND THERMOSPAN INSULATED PANEL SYSTEM EXPLAINED

The Thermopanel and Thermospan Insulated Panel system (the system) is lightweight, thermally efficient, and comprises:

- › Fully finished insulated panels manufactured from a core of expanded polystyrene (EPS) sandwiched between 0.59mm layers of Colorsteel®, and,
- › ancillary components.

Panels are supplied in a variety of colours, profiles and joints, and are available in the following thicknesses (mm): 50, 75, 100, 150, 200, 250, 300. The panels are supplied with a weathertight tongue & groove edge.

### PURPOSE:

Metalcraft Insulated Panels supplies the system for use as load bearing and non-load bearing walls and roofing panels.

### SCOPE OF USE:

Thermospan and Thermopanel may be used as follows:

#### LOCATION

- › In all wind zones up to and included extra high as defined in NZS3604:2011.
- › Up to a maximum wind pressure (ULS) of 2.5kPa where specifically engineered.
- › All corrosion zones as defined in NZS3604:2011. If the panels are to be used in a microclimate (as defined in cl 4.2.2, NZS3604:2011) then Metalcraft Insulated Panels Ltd is to be consulted for technical advice.
- › Any proximity with respect to the relevant boundary.

#### BUILDING:

- › In new buildings where the relevant part of the building complies with the NZ Building Code or in existing buildings where the designer and installer have assured themselves that the relevant part of the building is adequate for the intended building work.
- › A maximum building height of 10m.
- › A minimum roof pitch of 30° (applies to roof panels only).
- › In conjunction with a concrete, steel or timber sub-floor and flooring structure (where panels are to be load bearing).
- › In conjunction with steel or timber structural framing and concrete, steel or timber sub-floor and flooring structure (non-load bearing).
- › Joinery that complies with NZS4211:2008.



### VERSION:

*NOTE: Uncontrolled in printed format.*

### DATE:

### Name:

### Position:

Signed on behalf of: Metalcraft Roofing.

By signing this pass<sup>TM</sup>, the signatory confirms that the product described by this pass<sup>TM</sup> complies with s14G, Building Act 2004.

### FURTHER INFORMATION

For further product assistance please contact:

[www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz)

## LIMITATIONS OF USE:

### LOCATION

- › Where the system is to be used in a micro-climate (as defined in clauses 4.2.2, NZS3604:2011), Metalcraft Insulated Panels are to be consulted.
- › Where the panels are to be located within 1m of a relevant boundary the system may only be used as a non-load bearing external wall cladding system.
- › Where fire resistance rating (FRR) is required this is subject to specific design.

### BUILDING

- › Where compliance with G3.3.2(a, b) is required, Colorsteel® CP-Antibacterial must be specified as the internal lining of the panel.

## USEFUL INFORMATION


To assist in the design, specification and installation of the Thermopanel and Thermospan Insulated Panel system refer to:

- › Metalcraft Insulated Panel Specification
- › Metalcraft Insulated Panel Installation & details
- › NZ Steel Maintenance for environmental categories
- › Metalcraft Insulated Panel warranty

Available at [www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz)

## PERFORMANCE CLAIMS:

If designed, installed and maintained in accordance with the all Metalcraft Insulated Panel requirements, the Thermospan and Thermopanel Insulated Panel system will meet the following performance claims.

NZBC Clause	Means of compliance	Basis of compliance Relevance
<b>B1 Structure:</b> B1.3.1, B1.3.2, B1.3.3 (a), (b), (c), (f), (e), (g), (i), (j), (l), (m) & (q), B1.3.4 (a), (b), (c), (d) & (e)		<ul style="list-style-type: none"> <li>› Under Section 19 of the Building Act 2004, a current product certificate issued under the CodeMark scheme for New Zealand must be accepted by building consent authorities (BCAs) as evidence of compliance with the NZBC for the clauses listed on the certificate provided that all conditions of that certificate have been met.</li> </ul>
<b>B2 Durability:</b> B2.3.1 (a)		
<b>C3 Fire affecting areas beyond the fire source:</b> C3.4 (a)		
<b>E2 External Moisture:</b> E2.3.1, E2.3.2, E2.3.3, E2.3.4, E2.3.7 (b) & (c)		
<b>E3 Internal Moisture:</b> E3.3.1, E3.3.4, E3.3.5, E3.3.6		
<b>F2 Hazardous building material:</b> F2.3.1		
<b>G3 Food Preparation &amp; Prevention of Contamination:</b> G3.3.2 (a) & (b)		
<b>H1 Thermal Efficiency:</b> H1.3.1 (a), (b), H1.3.2E, H1.3.3 (c) & (e)		