

## METECNOSPAN® PIR PANELS

### PURPOSE

MetecnoSpan® PIR Panels are supplied by Metalcraft Insulated Panels for use as self-supporting, insulated, fully finished roof panels.

### EXPLANATION

MetecnoSpan® PIR Panels are manufactured in Australia. The panels have a polyisocyanurate (PIR) foam core with factory laminated COLORBOND®-coated, internal and external facings.

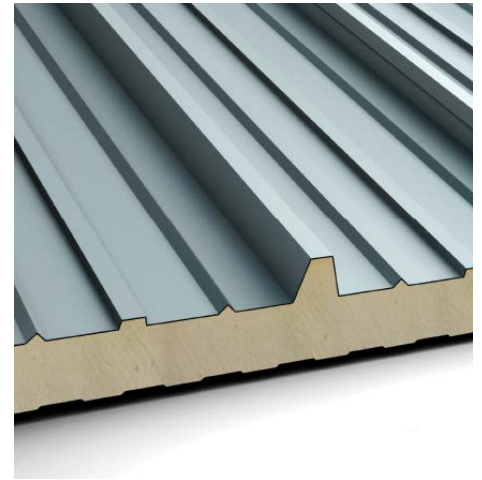
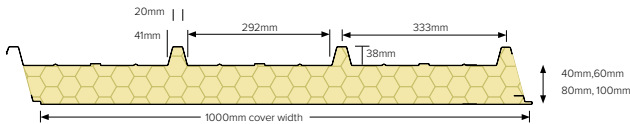
The external facing is 0.42 mm hot-dipped, zinc-coated structural steel formed in a trapezoidal profile with a single lap corrugation.

The internal facing is 0.5 mm hot-dipped, zinc-coated structural steel formed in an indented Micro V Rib, Satinline or Finline profile.

The panels are available in:

- Thicknesses (mm): 40, 60, 80, 100
- Width (mm): 1000
- Length (mm): maximum 11900.

The panels are supplied with ancillary components necessary for installation.



For further assistance please contact:

- +64 9 277 8844
- peter.z@metpanels.co.nz
- metalcraftgroup.co.nz



## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> In locations with a wind design pressure (ULS) of up to and including 2.5 kPa which includes all NZS 3604:2011 wind zones. In all exposure zones as defined in NZS 3604:2011. In all seismic zones. In all snow zones. Any distance from a relevant boundary.	➤ Where the panels are to be used in a micro-climate (as defined in paragraph 4.2.2 of NZS 3604:2011), Metalcraft Insulated Panels is to be consulted.
<b>Building</b> 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. With a steel or timber framing structure. On buildings with a minimum roof pitch of 3°. As internal and external roof panels.	➤ The span of the panels must be in accordance with the MetecnoSpan® span tables [Metalcraft Insulated Panels, 07/2020].

### USEFUL INFORMATION

For information on the design, installation and maintenance of MetecnoSpan® PIR Panels and for our warranty refer to name [www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz).

### OTHER CERTIFICATIONS AND APPROVALS HELD BY THE STEEL MANUFACTURER

As the manufacturer of the steel from which MetecnoSpan® PIR Panels are fabricated, BlueScope provides assurance that the steel has been manufactured in accordance with AS 1397-2001 and is coated in accordance with AS/NZS 2728:2013.



## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Metalcraft Insulated Panels requirements, the MetecnoSpan® PIR Panels will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
<b>B1 Structure</b> B1.3.1, B1.3.2, B1.3.3 (a, b, c, e, f, i, j, l, m, q), B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Loadspan capacities for permissible wind pressure up to 2.5 kPa [Metalcraft Insulated Panels, 07/2020].</li> <li>FM Approvals Standard 4881 [18/06/2013].</li> </ul>
<b>B2 Durability</b> B2.3.2 (a)	ACCEPTABLE SOLUTION B2/AS1	<ul style="list-style-type: none"> <li>COLORBOND® coated in accordance with AS/NZS 2728:2013 [BlueScope].</li> </ul>
<b>C3 Fire affecting area beyond the fire source</b> C3.4 (a)	ACCEPTABLE SOLUTION C/AS1, C/AS2 1 <sup>st</sup> edition June 2019	<ul style="list-style-type: none"> <li>FM Approvals Standard 4881 [18/06/2013].</li> <li>Testing to AS/NZS 3837 [Metecno PIR, 17/07/2019].</li> <li>Meets material group number 1S.</li> </ul>
<b>E2 External moisture</b> E2.3.1, E2.3.2, E2.3.3, E2.3.4, E2.3.5, E2.3.7 (b, c)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Comparison with Thermospan Insulated Panels roofing panels and CodeMark evaluation of Metalcraft Insulated Panel System for Thermospan [Global-Mark, 28/06/2017].</li> </ul>
<b>E3 Internal moisture</b> E3.3.1, E3.3.4, E3.3.5, E3.3.6	ACCEPTABLE SOLUTION E3/AS1	<ul style="list-style-type: none"> <li>COLORBOND® coated steel is impervious to moisture.</li> <li>PIR core has an insulation value (refer to H1).</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>Coating is inert once dry.</li> </ul>
<b>H1 Thermal efficiency</b> H1.3.1 (a, b), H1.3.2E, H1.3.3 (c, e)	ACCEPTABLE SOLUTION H1/AS1	<ul style="list-style-type: none"> <li>R values for panels at 15 °C of 2.3 (40 mm), 3.3 (60 mm), 4.4 (80 mm), 5.5 (100 mm) [Metalcraft Insulated Panels, 07/2020].</li> </ul>

## Other performance statement

## BASIS OF STATEMENT

### Demonstrated by

MetecnoSpan® PIR Panels will not contaminate potable water.

BRANZ classification of roof materials suitable for drinking water collection [BRANZ, 20/05/2020].

## SOURCES OF INFORMATION

- BlueScope. [06/2020] *COLORBOND® steel*. Retrieved from [https://www.nsbuescope.com/my/wp-content/uploads/sites/7/2020/06/CB-XRW\\_Rev14\\_20200617.pdf](https://www.nsbuescope.com/my/wp-content/uploads/sites/7/2020/06/CB-XRW_Rev14_20200617.pdf). [Accessed on 06/09/2021].
- BRANZ. [20/05/2020] *Harvesting rainwater*. Retrieved from <https://www.level.org.nz/water/water-supply/mains-or-rainwater/harvesting-rainwater/>. [Accessed on 07/09/2021].
- FM Approvals. [18/06/2013] *Certificate of Compliance – FM Approval of MetecnoPanel and MetecnoSpan Wall Panels in Accordance with FM Approval Standard 4881*. Approval Identification: 0003044255.
- Global-Mark. [28/06/2017] *Certificate of Conformity, Metalcraft Insulated Panel System*. Certificate Number:GM-CM300078-RevC.
- Metalcraft Insulated Panels. [07/2020] *MetecnoSpan®*. Retrieved from <https://d1ki6btnkplpf.cloudfront.net/1001/mc-6pp-metecnospan-brochure-webjuly2020-1.pdf>. [Accessed on 6/09/2021].
- Metecno PIR. [17/07/2019] *MetecnoSpan – Polyisocyanurate (PIR) cored Insulated Composite Roofing Panel Fire Properties – Heat Release Rates*.

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



- Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
- 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.

Metalcraft Insulated Panels confirms that if Metecnospan 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:** 9429036310852

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the Metalcraft Insulated Panels 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.

9606D66ADE51EA6CCC25850D00239F99