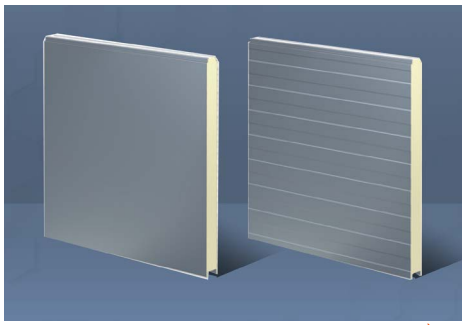
pass™ PRODUCT ASSURANCE SUPPLIER STATEMENT
pass™ no: 19032 | Expires: 08/2020

Metalcraft Insulated Panel Systems

METALCRAFT PIR PANEL



PURPOSE

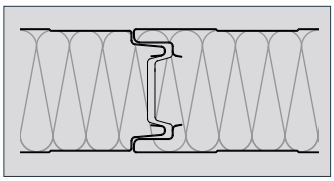
The Metalcraft PIR Panel is a thermally insulated panel suitable for use as self-supporting, non-load bearing wall and roof panels.

EXPLANATION

Manufactured in Korea by SY, the Metalcraft PIR Panel (the panel) is lightweight and thermally efficient. It is fully finished; the core of polyisocyanurate (PIR) is sandwiched between 0.5 mm layers of galvanised steel which is finished with a factory-applied PVDF or antibacterial coating.

The panels are supplied with a double slip-joint tongue and groove edge and are available smooth-faced or profiled.

The panels are available in the following thicknesses: 50 mm, 75 mm, 100 mm, 125 mm and 150 mm and in lengths up to a maximum of 12 m.



WE COMPLY s14G BUILDING ACT 2004

For further assistance please contact:

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metalcraftgroup.co.nz

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
All wind zones up to and including very high wind as defined in NZS 3604:2011 or a calculated wind design pressure (ULS) of 2.15kPa.	
Snow loading up to 1kPa.	
All corrosion zones as defined in NZS 3604:2011.	› Where the system is to be used in a micro-climate (as defined in clause 4.2.2, NZS 3604:2011), Metalcraft Insulated Panel Systems is to be consulted.
Building	
In all building uses.	› Steel faced composite panels achieve a material group 1S rating.
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.	› Span of the panels is to be in accordance with span table TAN-001009.
With steel or timber structural framing; and concrete, steel or timber sub-floor and flooring structure.	
Greater than 1m from a relevant boundary.	› In buildings that require fire resistance rating (FRR) for passive fire protection. Passive fire protection systems must be specifically designed.
In buildings with a maximum building height of 10 m.	
In buildings with a minimum roof pitch of 3°, where a roof panel system is being used.	

USEFUL INFORMATION:

For information on the design, installation and maintenance of the Metalcraft PIR Panel and for our warranty refer to name www.metalgroup.co.nz.

OTHER CERTIFICATIONS AND APPROVALS HELD BY SY PANELS:

- ISO 14001:2015 Environment Management System Certificate number AK16EM1968.
- ISO 9001:2015 Quality Management System Certificate number AK15QM1797.
- FM Approval Report [06/2012] number 3044346. Classes 4880, 4881, 4471

VERSION: V1.0

Metalcraft
Insulated Panel Systems

PERFORMANCE CLAIMS

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

N.Z. Building Code clauses	BASIS OF COMPLIANCE[1]	
	Compliance statement	Demonstrated by
B1 Structure 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)	ALTERNATIVE SOLUTION	❯ Span tables specifically engineered TAN-001009 ❯ FM approval
B2 Durability B2.3.1(a)	ALTERNATIVE SOLUTION	❯ PVDF coating well-used coating system for metal-faced building products. ❯ SY Panels ISO 9001 accreditation
C3 Fire affecting areas beyond the fire source: C3.4 (a)	ACCEPTABLE SOLUTION C/AS2 1st Edition June 2019	❯ Steel is non-combustible refer para 5.8. ❯ Steel faced composite panels achieve a material group 1S rating.
E3 Internal Moisture E3.3.1, E3.3.3, E3.3.4, E3.3.5	ACCEPTABLE SOLUTION E3/AS1	❯ PVDF coated steel is impervious ❯ PIR core has an insulation value (refer H1)
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	❯ Coating system is inert once dry
G3 Food Preparation & Prevention of Contamination: G3.3.2 (a) & (b)	ACCEPTABLE SOLUTION G3/AS1	❯ PVDF coated steel is impervious.
H1 Thermal Efficiency: H1.3.1 (a), (b), H1.3.2E, H1.3.3 (c) & (e)	ACCEPTABLE SOLUTION H1/AS1	❯ PIR cores R value of 5.11 for 100 mm thick core.

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION

- ❯ Building Regulations 1992
- ❯ Ministry Building, Innovation and Employment Acceptable Solutions
- ❯ FM Approval Report [27/06/2012] Classes
  - 4880 Class 1 fire rating of insulated wall or wall and roof/ceiling panels, interior finish materials or coatings, and exterior wall systems.
  - 4881 Class 1. External wall systems
  - 4471 Class 1 Panel roofs
- ❯ Ministry Building Innovation and Employment Multiproof evaluation for certificates: A10146, A10147, A10148.

VERSION: V1.0 **DATE:** 14/08/19

Note: Uncontrolled in printed format.

NAME: Peter Zeeman

POSITION: Manager

Signed on behalf of Metalcraft Insulated Panels:

Peter Zeeman

Digitally signed by Peter Zeeman
Date: 2019.08.14 10:01:58 +12'00'

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.

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