

### MODIFIED POLYISOCYANURATE RIGID THERMAL INSULATION HIGH R-VALUE INSULATION PANEL

#### PRODUCT INFORMATION

**PIRmax HR PANEL** is a modified PIR (Polyisocyanurate) rigid thermal panel that can be used in many applications. It is the next generation in high performance insulation products for commercial and residential developments. Designed to achieve excellent thermal value where minimal cavity is available.

**PIRmax HR PANEL** has amongst the highest thermal values of rigid board insulation products, giving buildings continued thermal efficiency throughout their life span. A light weight closed cell Polyisocyanurate foam core panel, easy to handle and allows fast fixing to any application.

CFC free with zero Ozone Depletion Potential (ODP), and contains zero Volatile Organic Compounds (VOC's)

- ▶ Complies with AS/NZS 4859.1.
- ▶ Amongst the highest thermal values of rigid board insulation due to the product's low thermal conductivity.
- ▶ Achieves a Group 1 BCA/NCC fire classification when tested to AS 5637.1 (ISO 9705), compliant to the National Construction Code, NCC/BCA Volume 1; Specification C1.10.
- ▶ Achieves excellent fire hazard results when tested to AS/NZS 1530.3
- ▶ Not corrosive to metal over time.
- ▶ Able to custom manufacture to different sizes and facing colours.
- ▶ Fast manufacturing turnaround times.

#### APPLICATIONS

Soffit (Carpark Application), Walls, Raised Underfloor, Ground Floor Slabs, Ceilings, Roofs, Domestic and Commercial Ducting.

**PIRmax HR PANEL** is manufactured in Australian owned and operated company, and guarantee the highest quality insulation material. Raw materials and chemicals are also sourced from Australian companies wherever possible. We take pride in our manufacturing to ensure a high standard of quality, service and value.



# PRODUCT SPECIFICATIONS

## PIRmax HR PANEL Product Details

<b>Product Name</b>	PIRMAX - HR Panel “modified PIR rigid thermal insulation”
<b>Product Code</b>	PIRMAX HR _____ (mm)
<b>Thickness</b>	20mm/25mm/30mm/40mm/50mm/60mm/70mm/75mm/80mm/ 90mm/100mm
<b>Panel Size</b>	2270mm x 1200mm (2.72m <sup>2</sup> ) Also can be cut to custom lengths and sizes.
<b>Facings</b>	Silver/White/Black. Embossed aluminium sheet laminated to both sides.

## PIRmax HR PANEL Product Data

<b>Thermal Conductivity:</b>	0.0195 W/mK
<b>Emittance</b>	E0.03 (silver foil face)
<b>Edge Treatment</b>	Square Edge

## PIRmax HR PANEL Product R-Values NZ

<b>Product Thickness</b>	<b>Product R-Value</b>
PIRMAX HR 20mm	R1.0
PIRMAX HR 25mm	R1.3
PIRMAX HR 30mm	R1.5
PIRMAX HR 40mm	R2.1
PIRMAX HR 50mm	R2.6
PIRMAX HR 60mm	R3.1
PIRMAX HR 70mm	R3.6
PIRMAX HR 75mm	R3.8
PIRMAX HR 80mm	R4.1
PIRMAX HR 90mm	R4.6
PIRMAX HR 100mm	R5.1



# PRODUCT SPECIFICATIONS

## PIRmax HR PANEL Product Testing

Complies to AS/NZ 4859.1 and NCC/BCA Compliant		
Group Classification	AS 5637.1 (ISO 9705)	Group 1
Peak Heat Release	AS 5637.1 (ISO 9705)	831 kW (No Flashover)
Ignitability Index	AS/NZS 1530.3	0 Range 0-20
Spread of Flame Index	AS/NZS 1530.3	0 Range 0-10
Heat Evolved Index	AS/NZS 1530.3	0 Range 0-10
Smoke Developed Index	AS/NZS 1530.3	1 Range 0-10
Compressive Strength	AS 2498.3	>125 (kPa)
Water Vapour Resistivity	ASTM E96	>100 (MNs/gm)

## PIRmax HR PANEL Specification Notes

When specifying, state the following:

**Product Name: PIRMAX HR PANEL \_\_\_\_\_ mm**

The insulation to be installed shall be PIRMAX HR Panel double sided reflective PIR insulation, comprised of Modified Polyisocyanurate Rigid Panel with a foil facing on both sides, Group 1 BCA fire classification and an R Value of \_\_\_\_\_. Product is Australian Made, manufactured by PIRMAX Pty Ltd and shall be installed in accordance with manufacturers installation instructions.



AUSTRALIAN OWNED, AUSTRALIAN MANUFACTURED. Manufactured by: PIRMAX Pty Ltd 9/170 Boundary Road, Braeside VIC 3195 T: 03 9587 0955 F: 03 9587 0966 E: pirms@bigpond.com © 2016 Reflex Insulation Pty Ltd All Rights Reserved. Disclaimer: The installer/user of these products will need to determine if the product is suitable for the use in the intended application. Information on this brochure is believed to be correct at the time of publication. Pirms Pty Ltd take no responsibility for the misinterpretation, misuse and misrepresentation of information provided on this brochure. Pirms Pty Ltd reserves the right to change the content of this publication without any notice.

