Enveloped Solutions Limited
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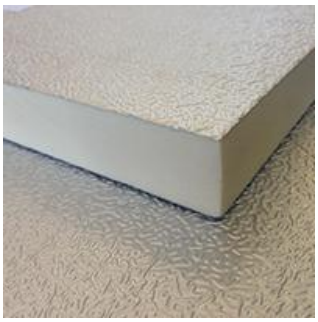
Class 1 Building Product Information Sheet

1. Product name	**PIRMAX Insulation**
2. Product line	**ISO2 Insulation Panel**
3. Example Image	

4. Product description and its intended use

- PIRMAX ISO2 Insulation panel is a Polyisocyanurate (PIR) insulation panel bound by aluminium foil facings on the upward and downward facing surfaces. The insulation is available in set thickness and lengths. The product may be visually described as an embossed aluminium face on both sides (dimpled patterned texture), with a yellowish foam core

- PIRMAX ISO2 Insulation panel has been designed for, but is not limited to, use in residential and commercial construction of walls, ceilings and roofs, and soffits

- PIRMAX ISO2 Insulation panel is non-combustible

- PIRMAX ISO2 Insulation panel is supplied in sheets 1200mm x 2270mm in dimension, in a range of thicknesses as per the following:

  40mm R1.90
  50mm R2.35
  70mm R3.30

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5. Place of Manufacture	Australia (Overseas)
6. Manufacturer	PIRMAX Holdings Pty Ltd. 9/170 Boundary Road Braeside VIC 3196 Website: www.pirmax.com.au / www.pirmax.co.nz Email: info@pirmax.co.nz Phone: +61 (0) 3 9587 0955

7. Importer	Enveloped Solutions Limited 150B Foundry Road Silverdale Auckland 0932 New Zealand Website: www.enveloped.co.nz Email: info@enveloped.co.nz Phone: 021 387 246 NZBN: 9429032798807

8. Relevant Building Code clauses

- B2 Durability, 2.3.1
- E3 Internal Moisture, 3.3.1
- F2 Hazardous Building Materials, 2.3.1
- H1 Energy Efficiency, 1.3.1
- H1 Energy Efficiency, 1.3.2E
- H1 Energy Efficiency, 2.3.1

9. Statement on how the building product is expected to contribute to compliance

B2 Durability, 2.3.1
PIRMAX ISO2 Insulation panel Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or:

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(a) The life of the building, being not less than 50 years, if:
ii. Those building elements are difficult to access or replace, or
Where the building is maintained so that the provisions of NZBC E2 and E3 are met, the PIRMAX ISO2 Insulation panel product can be expected to have a serviceable life of at least 50 years.

E3 Internal Moisture, 3.3.1
An adequate combination of thermal resistance, ventilation, and space temperature must be provided to all habitable spaces, bathrooms, laundries, and other spaces where moisture may be generated or may accumulate. (These requirements do not apply to Communal Non-residential, Commercial, Industrial, Outbuildings, or Ancillary Buildings).
PIRMAX ISO2 Insulation panel will contribute to meeting these requirements.

F2 Hazardous Building Materials, 2.3.1
The quantities of gas, liquid, radiation, or solid particle emitted by a material used in the construction of a building, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space. PIRMAX ISO2 Insulation panel meets these requirements.

H1 Energy Efficiency, 1.3.1
The building envelope enclosing spaces where the temperature or humidity (or both) are modified must be constructed to—
(a) provide adequate thermal resistance; and
(b) limit uncontrollable airflow
PIRMAX ISO2 Insulation panel will contribute to meeting these requirements

H1 Energy Efficiency, 1.3.2E
Buildings must be constructed to ensure that their building performance index does not exceed 1.55. PIRMAX ISO2 Insulation panel will contribute to meeting these requirements

H1 Energy Efficiency, 2.3.1
Acceptable methods for determining the thermal resistance (R-values) of insulation materials are contained in AS/NZ 4859.1. PIRMAX ISO2 Insulation panel will meet these requirements

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10. Relevant standards		
PIRMAX ISO2 Insulation panel, is tested, fabricated and specified to comply with the following standards, as relevant to the project specifications:		
Test Standard	**Test Type**	**Reported Value**
AS/NZS 4859.1:2018	AS/NZS 4859.1:2018	Refer to 4. (Product Description)
AS/NZS 4959.12018 (Appendix E)	Surface Corrosion & Delamination	Pass
ASTM E 408-71	Emittance	0.05
A/NZS 4200.1:2017	Emittance	IR Reflective
AS/NZS 1530.3:1993	Ignitability Index	0
AS/NZS 1530.3:1993	Spread of Flame Index	0
AS/NZS 1530.3:1993	Heat Evolved Index	0
AS/NZS 1530.3:1993	Smoke Development Index	0-1
AS 5637.1:2015	Group Number	2
AS 5637.1:2015	SMOGRA(RC)	<100m2/m2x1000

This BPIR statement is correct as of February 2024 and references the following documents.

- PIRMAX AS/NZS 3837-1988 test report AWTA 18-001500, issue 29Mar2018
- Huntsman 1366.2 evaluation, issue 20 Apr 2017
- CSIRO thermal Value summary report for PIRMAX ISO2 PIR XC3715/R4

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11. Limitations of use

- PIRMAX ISO2 Insulation panel is not considered vapour permeable. Customers should model full construction details in WUFI or similar to check there is no excessive risk of condensation caused by dew-points.
- In exposed applications where the is no internal lining material present and the PIRMAX ISO2 Insulation panel product acts as the internal lining for either walls, roofs, soffits, or floors
- Must not be in proximity to a fixed appliance using controlled combustion and other fixed equipment where that piece of equipment would cause the PIRMAX ISO2 Insulation panel product to exceed 90 degrees Celcius.
- Must not be used as, or part of, an external cladding material
- Buildings with a building height greater than 10 m where upper floors contain sleeping uses or other property must be designed and constructed so that there is a low probability of external vertical fire spread to upper floors in the building.
- Buildings must be designed and constructed so that there is a low probability of fire spread to other property vertically or horizontally across a relevant boundary. Buildings must be designed and constructed so that fire does not spread more than 3.5 m vertically from the fire source over the external cladding of multi-level buildings.
- This BPIR statement intends to cover the most common applications of the PIRMAX ISO2 Insulation panel. This document is not intended, and cannot cover all possible applications of this product, where there is any doubt over the suitability of this product for a specific application always gain approval from the appropriate authorities prior to purchase or installation.
- This BPIR Statement must be read in conjunction with the relevant installation guide. Please refer to www.pirmax.com.au/products

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12. Design requirements
N/A

13. Installation requirements
This BPIR Statement must be read in conjunction with the relevant installation guide. Please refer to www.pirmax.com.au/products

14. Maintenance Requirements
N/A

15. Declaration: Is the building product/building product line subject to warning or ban under section 26?
No