Certificate of Conformity

Agreed Certification Body:

SAI Global Certification Services Pty Limited

(ACN 108 716 669) Operating as "Intertek & Intertek SAI Global"

JAS-ANZ Accreditation No. Z1440295AS

Address: 650 Lorimer Street Port, Melbourne, VIC, 3207 Australia

Website: www.saiglobal.com

Certificate Holder:
Pirmax Pty Ltd
9/170 Boundary Road
Braeside VIC 3195
Ph: +61 (0) 3 9587 0955
Website: www.pirmax.com.au

Certificate number: CM20328

THIS TO CERTIFY THAT

PIRMAX ISO^2 Insulation Panels

Type and/or use of product:
PIRMAX ISO^2 Insulation Panels are PIR thermal panel used for internal lining materials.

Description of product:
PIRMAX ISO^2 PIR Panels are a modified polyisocyanurate (PIR) rigid thermal panels. They comprise of closed cell PIR consisting of a foam inner core thermoset between two layers of embossed aluminium foil facings.
Available in nominal thicknesses ranging between 25mm to 100mm

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2019 Amdt 1**

	Volume One		Volume Two	
Performance Requirement(s)	**N/A**	**N/A**	**N/A**	**N/A**
Deemed-to-Satisfy Provision(s):	**C1.10(a)(ii) including Spec. C1.10 Clause 4 & Clause 7**	**Fire Hazard Properties -** Wall and ceiling linings Other Materials	**3.12.1.1**	**Building fabric -** Building fabric thermal insulation. (must be used in conjunction with other building elements to achieve a total R value outlined in clause 3.12.1.2 'Roofs', 3.12.1.4 'External Walls' & 3.12.1.5 'Floors') subject to state and territory variations.
	J1.2	**Building Fabric –** Thermal construction — general (must be used in conjunction with other building elements to achieve a total R value outlined in clause J1.3 'Roof and ceiling construction', J1.5 'Walls and Glazing' & J1.6 'Floors') subject to state and territory variations.		
State or territory variation(s):	**NSW Spec. C1.10 NSW 7**	**Fire hazard properties** Other materials	**NSW-3.12**	**ENERGY EFFICIENCY** In New South Wales, Part 3.12 does not apply. Note: The New South Wales Additions contain energy efficiency measures that apply in New South Wales to support and complement BASIX.
	NSW Section J	Section J is replaced with NSW Section J which consists of two (2) subsections: • J(A) Energy Efficiency – Class 2 buildings & Class 4 part (BASIX)	**NT-3.12**	In the Northern Territory, Part 3.12 is replaced with BCA 2009 Part 3.12.

SAI Global Certification Services

Calin Moldovean
President, Business Assurance
SAI Global Assurance

Harley Parkes – Unrestricted Building Certifier

Date of issue: 15/08/2023

Date of expiry: 14/08/2026

- J(B) Energy Efficiency – Class 3 & Class 5 to 9 buildings

NT Section J	For a Class2 building and a Class4 part of a building, Section J is replaced with Section J of BCA 2009. Section J does not apply to Class 3 and 5-9 buildings.
QLD Section J	In Queensland, for a Class 2 building, Section J is replaced with Section J of BCA 2009

SA-3.12	In South Australia, for the purposes of this Part, a sunroom or the like is deemed to be a Class 10a building and must comply with 3.12.1.6.
QLD-3.12	In Queensland, building work for the energy efficiency of Class 1 buildings is also regulated by the Building Act 1975 and the Queensland Development Code MP 4.1—Sustainable buildings.
ACT-3.12	In the Australian Capital Territory, see the ACT Appendix for further information on application to building work on new buildings and additions to existing buildings in the ACT.

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. This product must be installed as per the documented information in section A5 of this certificate.
2. PIRMAX ISO^2 PIR Panel has not demonstrated compliance with BCA clause C1.9, therefore in Type A and Type B construction is not suitable for use:
    a. on external walls or common walls, or
    b. internal non-loadbearing walls required to be fire resisting.
3. PIRMAX ISO^2 PIR Panel has been tested and achieved Material **Group number 2** when assessed in accordance with the requirements of AS5637.1-2015.

Building classification/s:

Volume 1 – Class 2 to Class 9 buildings
Volume 2 – Class 1 and Class 10a buildings

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the certificate holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this certificate.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

Refer to Page 1 of this certificate.

A2 Description of product

Refer to Page 1 of this certificate.

A3 Product specification

Product Name	**PIRMAX ISO² PIR Panels**
Nominal Product Thickness	25mm, 30mm, 40mm, 50mm, 60mm, 70mm, 75mm, 80mm, 90mm and 100mm
Product Dimensions	2400mm x 1200mm (2.88m²)
Declared Material R-value	25mm – R1.05m².K/W at 23°C 30mm – R1.30m².K/W at 23°C 40mm – R1.90m².K/W at 23°C 50mm – R2.35m².K/W at 23°C 60mm – R2.85 m².K/W at 23°C 70mm – R3.30 m².K/W at 23°C 75mm – R3.55 m².K/W at 23°C 80mm – R4.00 m².K/W at 23°C 90mm – R4.50 m².K/W at 23°C 100mm – R4.85 m².K/W at 23°C
Declared Thermal Conductivity (λ-value)	0.023 W/m.K at 23°C (insulant Thickness 20 – 35mm) 0.021 W/m.K at 23°C (insulant Thickness 40 – 75mm) 0.020 W/m.K at 23°C (insulant Thickness 80 – 95mm) 0.021 W/m.K at 23°C (insulant Thickness 100mm)
Emittance	E0.05 – Foil Face

A4 Manufacturer and manufacturing plant(s)

8/170 Boundary Rd, Braeside VIC 3195

A5 Installation requirements

Refer to Page 2 of this certificate and the following;

1. PIRMAX ISO^2 PANEL SYSTEM INSTALLATION GUIDE: WALLS AND CEILINGS - Version 01/02/23 V3
2. PIRMAX ISO^2 PANEL SYSTEM INSTALLATION GUIDE: CEILINGS AND SOFFITS – Version 11/04/23 V5

A6 Other relevant technical data

Refer to Reports documented below (B2 Reports) and the following:

- ISO^2 Product Technical Statement, Group 2 Modified Polyisocyanurate Rigid Thermal Insulation Panel, V12, dated 05/04/23.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The system has been assessed as complying with the identified Performance Requirements of the BCA 2019 Amdt 1. This involved a review of product specifications, test reports, installation manuals, and associated documentation.

1. Fire Hazard Properties assessment:
   a) A2.3(2)(a)/A5.2(1)(d) – Report from accredited testing laboratory – 'AWTA' Australian Wool Testing Authority (NATA Accreditation No. 1356) & BRANZ – (IANZ Accreditation No. 37)
2. Energy Efficiency Assessment:
   a) A2.3(2)(a) / A5.2(1)(d) - A report issued by an Accredited Testing Laboratory – 'AWTA' Australian Wool Testing Authority (NATA accreditation No. 1356) & CSIRO (NATA accreditation No. 165)
   b) A2.3(2)(a)/A5.2(1)(e) - Report from a professional engineer or suitably qualified person ('AWTA' Australian Wool Testing Authority & CSIRO)

B2 Reports

Evaluation methods	Related Reports
Fire Hazard Properties assessment	1, 2, 3, 4, 5, 6, and 7
Energy Efficiency Assessment	8,9, 10, 11, and 12

Fire Hazard Properties

1. **AWTA Product Testing, Test Report to the requirements of AS/NZS 1530.3-1999, Test # 20-003292 (dated 10 July 2020) -** *This report provides the results to testing to AS/NZS 1530.3-1999 for Pirmax ISO^2 Silver 40mm and determines that the product has a Spread of Flame Index of 0 and Smoke Developed Index of 0-1.*
2. **AWTA Product Testing, Test Report to the requirements of AS/NZS 1530.3-1999, Test # 20-005378 (dated 02 November 2020) -** *This report provides the results to testing to AS/NZS 1530.3-1999 for Pirmax ISO^2 Silver 50mm and determines that the product has a Spread of Flame Index of 0 and Smoke Developed Index of 0-1.*

3. **AWTA Product Testing, Test Report to the requirements of AS/NZS 1530.3-1999, Test # 23-001608 (dated 07 June 2023) -** *This report provides the results to testing to AS/NZS 1530.3-1999 for Pirmax ISO² Silver 60mm and determines that the product has a Spread of Flame Index of 0 and Smoke Developed Index of 2.*
4. **AWTA Product Testing, Test Report to the requirements of AS/NZS 1530.3-1999, Test # 23-001607 (dated 02 June 2023) -** *This report provides the results to testing to AS/NZS 1530.3-1999 for Pirmax ISO² Silver 100mm and determines that the product has a Spread of Flame Index of 0 and Smoke Developed Index of 0-1.*
5. **BRANZ, Type Test Report to AS ISO 9705-2003, Report No. FI11441-001, (dated 22 April 2020) -** *This report provides the results to testing to AS ISO 9705-2003 and assessment to AS5637.1-2015 for Pirmax ISO² Silver 40mm and determines that the product achieves a Group Number 2 and $SMOGRA_{RC}$ of 15.8m²/s² x 1000*
6. **BRANZ, Type Test Report to AS ISO 9705-2003, Report No. FI13054-001, (dated 9 September 2021) -** *This report provides the results to testing to AS ISO 9705-2003 and assessment to AS5637.1-2015 for Pirmax ISO² Silver 60mm and determines that the product achieves a Group Number 2 and $SMOGRA_{RC}$ of 28.8m²/s² x 1000*
7. **BRANZ, Type Test Report to AS ISO 9705-2003, Report No. FI14361-01-1, (dated 11 November 2021) -** *This report provides the results to testing to AS ISO 9705-2003 and assessment to AS5637.1-2015 for Pirmax ISO² Silver 100mm and determines that the product achieves a Group Number 2 and $SMOGRA_{RC}$ of 28.8m²/s² x 1000*

Thermal Properties

8. **AWTA Product Testing, Test Report to the requirements of AS/NZS4859.1-2018 Appendix E, Test # 21-005519 (dated 02 December 2021) -** *This report provides the results to testing to AS/NZS 4859.1-2018 Clause 9.3.3 for surface corrosion and wet delamination of silver foil used in Pirmax ISO² and determines that the product passes the requirement for both parameters.*
9. **AWTA Product Testing, Test Report to the requirements of AS/NZS4859.1-2018 Section 2 (Clause 2.4), Test Report No. 19-002613, (dated 07 June 2019) -** *This report provides the results to testing of the foil used in Pirmax ISO² to the requirements of ASTM E408-71 for infrared emittance.*
10. **AWTA Product Testing, Test Report to the requirements of AS/NZS4859.1-2018 Section 2 (Clause 2.4), Test Report No. 19-002613, (dated 07 June 2019) -** *This report provides the results to testing to AS/NZS 4201.1-1994 of Pirmax IS02 Silver 50mm and determines that the product passed the requirements of Resistance to dry delamination.*
11. **CSIRO, Thermal value summary report for PIRMAX ISO² polyisocyanurate rigid thermal insulation panel, Report No. XC3715/R4a (dated 17 September 2020)** - *This report provides the declared thermal conductivity, λ and declared thermal resistance for Pirmax ISO² polyisocyanurate rigid thermal insulation panel based upon test results contained in CSIRO reports XC3715/R1, XC3715/R2, XC3715/3 and AWTA Reports 20-003306 and 20-003300.*
12. **CSIRO, Thermal value summary report for PIRMAX ISO² polyisocyanurate rigid thermal insulation panel, Report No. XC3875-R2 (dated 13 December 2022) -** *This report provides the declared thermal conductivity, λ and declared thermal resistance, R for 100mm nominal thickness Primax ISO² polyisocyanurate rigid thermal insulation panel based upon test results contained in CSIRO reports XC3875/R1, XC3715/R4a, and AWTA Reports 20-003306 and 20-003300.*