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Certificate Holder:

Stile Board Pty Ltd
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Certificate of Conformity

Certificate number: CM 30172

THIS IS TO CERTIFY THAT

STILE BOARD Waterproofing System

Type and/or use of product:

Stile Boards are floor and wall panels intended for internal use as a waterproofing system in wet areas in all building types.

Description of product:

Stile Boards are rigid extruded polystyrene (XPS Closed cell) foam core panels with Fibreglass mesh on both sides embedded in a modified polymer-cement mortar.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2022

| | Volume One | | Volume Two including Housing Provisions | |
|---|------------------|---|---|--|
| Performance Requirement(s) | B1P1 (1), (2)(b) | Structural Reliability | H1P1 (1), (2)(b) | Structural stability and resistance |
| | F2P2 | Wet areas | H4P1 | Wet areas |
| Deemed-to-Satisfy Provision(s): | C2D11 | Fire hazard properties | | |
| | J4D6 | Energy Efficiency - building fabric - walls and glazing | HP 13.2.5 | Energy Efficiency - building fabric - external walls |
| State or Territory variation(s): | SA F2P3 | Prevention of surface water accumulation | SA H4P1 (2) | Wet areas |
| | NSW J4D6 | Energy Efficiency - building fabric - walls and glazing | HP NSW 13.2.5 | Energy Efficiency - building fabric - external walls |

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.

The purpose of Global-Mark **construction site audits** is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In placing the **CodeMark mark** on the product/system, the certificate holder makes a declaration of compliance with the certification standard(s) and confirms that the product is identical to the product certified herein. In issuing this Certificate of Approval Global-Mark has relied on the **expertise of external bodies** (laboratories, and technical experts).

Herve Michoux
Global-Mark Managing Director

Peter Gardner
Unrestricted Building Certifier

Date of issue: 19/08/2024

Date of expiry: 19/08/2027



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| | | | | |
|---|-------------|--|------------------|---|
| | | | HP NT 13.2.5 | Energy Efficiency - building fabric - external walls |
| | TAS Part J4 | Energy Efficiency – building fabric Reference BCA 2019 (A1) – Part J1.5 (Class 2 & 4 only) | HP TAS Part 13.2 | Energy Efficiency – building fabric Reference BCA 2019 (A1) – 3.12 |
| SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B | | | | |
| Limitations and conditions: | | | | Building classification/s: |
| General This product does not contribute to an FRL, however may be used on walls where an FRL is required provided that the method of attaching to a building does not reduce the fire resistance of that element to below than required by the NCC 2022. | | | | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| General This product must always either be tiled over or covered with rigid lining material complying with the requirements in the NCC 2022 for fire hazard properties. Stile Board is designed to be lined with tiles or other rigid lining material to minimise exposure to fire. | | | | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| General Installation shall be in accordance with AS 3740:2010 and Stile Board Installation Manual Version 2, dated 2 August 2024. | | | | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| General Particular care and careful considerations are necessary when installing the panels in close proximity to hot water pipes and / or heat producing appliances to minimise the risk of damage to the panels due to radiant, convective and / or conducted heat. | | | | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| General Stile Board has been tested for thermal performance and has a Thermal Conductivity value of $k = 0.036 \text{ W/m.K}$ when tested to ASTM C518-17. | | | | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |
| General Stile Board cannot be applied to an external wall, if the external wall is required to be non-combustible, unless where the board is applied over the plasterboard lining of the external wall. | | | | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 |

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product


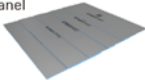

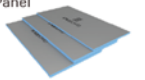


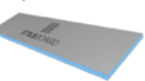



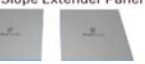




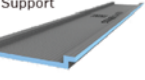

Refer to Use of product on page 1, internal use as waterproofing system in wet areas in buildings.

A2 Description of product

Refer to description on page 1.

A3 Product specification

For product specifications refer to Stile Board Installation Manual, version 2 of 2 August 2024. The Stile Board Waterproofing System components and technical details are detailed below:

|  | | | Address: 31 Stoddart Rd, Prospect NSW 2148 Phone: 02 9688 1002 | | |
|--|--|---|--|--|--|
| STOCK ITEM | SIZE(mm) | SPECIFICATIONS | STOCK ITEM | SIZE(mm) | SPECIFICATIONS |
| Wall Panel  | 2400x900x8 | Designed for use with brick or rendered wall structures | Puddle Flange  | 50mm | |
| | 2400x900x12.5 | Suited for 450mm stud centres and masonry walls | | 80mm | Puddle flange connection to drainage pipes with a recessed design for floor waste and linear supports. |
| | 2400x1200x8 | Designed for masonry walls only. | | 100mm | |
| | 2400x1200x15.5 | Suited for 450/600mm stud centres and masonry walls | | | |
| 2400x1200x20 | Suited for walls on any substrate or frame | | | | |
| Floor Panel  | 1800x900x30 | Bathroom wet area floor with No step-down into shower recess | Stile Flex  | 600mL sausage | Stile Board sealant adhesive (SMP technology) |
| | 1800x900x40 | Bathroom wet area floor with allowance for step-down into shower recess | | | |
| | 1800x900x50 | Suited for framing baths or downpipes but not limited to | Angle Profiles  | 50x50x3000mm | Aluminium waterstop angle 1.6mm thickness |
| | 2400x1200x20 | Suited for floors on any substrate or frame | | 60x60x3000mm | Aluminium waterstop angle 1.6mm thickness |
| Single Slope Panel  | 1200x300 -(21-24.8) | Suitable for Shower recess and shower room | 50x50x3000mm | Aluminium waterstop angle 3mm thickness. | |
| | 1200x600 -(21-28.5) | Suitable for Shower recess and shower room | 60x60x3000mm | Aluminium waterstop angle 3mm thickness. | |
| | 1200x900 -(21-32.3) | Suitable for Shower recess and shower room | | | |
| | 1200x1200 -(21-36) | Suitable for Shower recess and shower room | | | |
| | | | | | |
| 4-Way Slope Panel  | 600x600x30 | For wet room floors 30mm flat panels | Galvanised Mechanical Fixings  | Galvanised | |
| | 600x600x40 | For wet room floors 40mm flat panels | | • 8x60mm | Galvanised mechanical fixing for securing wall panels onto masonry or brick walls. |
| | 900x900x30 | For shower recess or wet room floors 30mm flat panel | Galvanised Screw & Washers  | Screw - 55mm | Phillips head screw fixing for installing Stile Board wall panels onto framed walls. |
| | 900x900x40 | For shower recess or wet room floors 40mm flat panel | | Washer - 36mm | Galvanized washer with tab for securing wall panels onto framed walls. 500pcs |
| | 1200x1200x30 | For shower recess or wet room floors 30mm flat panel | | Washer - 36mm | Galvanized washer with tab for securing wall panels onto framed walls. 1000pcs |
| | 1200x1200x40 | For shower recess or wet room floors 40mm flat panel | | | |
| | 1800x1100x30 | For shower recess or wet room floors 30mm flat panel | | | |
| | | | | | |
| Single Slope Extender Panel  | EXT A 1200x1200 -(36-51) | Extender Panel - Designed for shower rooms | Plastic Mechanical Screw Fixing  | 40mm | Plastic mechanical screw fixing for securing Stile Board panels together. |
| | EXT B 1200x1200 -(51-66) | Extender Panel - Designed for shower rooms | | 70mm | |
| | | | | 100mm | |
| Niche Box  | 350x350x100 | Shower or bath niche | Fiberglass Mesh  | 50x45mm Roll | Fiberglass mesh reinforcement applied over joints. |
| | 600x350x100 | Shower or bath niche | | | |
| | 900x350x100 | Shower or bath niche | Stile Fusion  | 15kg bag | Waterproofing membrane over joint sealant |
| | 1200x350x100 | Shower or bath niche | | 10L Pail | Waterproofing membrane over joint sealant |
| Linear Support Panel  | 1250x26x23 | Stileboard Linear Support | Joint Water Bandage  | 12.5cmx10m Roll | Stileboard waterproof membrane |
| | TYPE A 1500x26x23 | Centre drain pre fabricated | | | |
| | TYPE B 1500x26x23 | Off set drain pre fabricated | | | |

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| THERMAL INSULATION VALUES OF THE STILE BOARD | | | | |
|--|-------------------------|-----------------|-------------------------------|-------------------------------|
| Board thickness (mm) | XPS MATERIAL PROPERTIES | | | |
| | Thickness XPS (mm) | k-value (W/m.K) | R-value (m ² .K/W) | U-value (W/m ² .K) |
| 10 | 8 | 0.036 | 0.222 | 4.50 |
| 12 | 10 | 0.036 | 0.278 | 3.60 |
| 20 | 18 | 0.036 | 0.500 | 2.00 |
| 30 | 28 | 0.036 | 0.778 | 1.29 |
| 40 | 38 | 0.036 | 1.056 | 0.95 |
| 50 | 48 | 0.036 | 1.333 | 0.75 |

• STILE BOARD offer thermal insulation that in most constructions satisfies the U-value requirements of different regions building regulations. The nonconductive surface reduces condensation by masking any cold bridging from the substrate beneath.
 • The cementitious surface is resistant to heat and the chemicals within the sheathing around electric underfloor heating elements making it safe to use with these types of systems.

A4 Manufacturer and manufacturing plant(s)

Stile Board Pty Ltd
31 Stoddart Rd
Prospect NSW 2148
Australia

A5 Installation requirements

Refer to the Stile Board Installation Manual, version 2 of 2 August 2024.

A6 Other relevant technical data

Any referenced documents within the technical literature identified in Appendices A3 and A5.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

The following assessment methods have been used to determine compliance with BCA 2022:

| Code Clause | Assessment Method(s) | Evidence of suitability | Evidence reference in B2 |
|----------------------------------|-----------------------|---|----------------------------|
| Volume 1 B1P1 (1), (2)(b) | A2G2 (2)(b)(ii) & (c) | A5G3 (1) (d) – Test Report | Items 1, 2, 3, 4, 5, 6 & 8 |
| Volume 2 H1P1 (1), (2)(b) | A2G2 (2)(b)(ii) & (c) | A5G3 (1) (d) – Test Report | Items 1, 2, 3, 4, 5, 6 & 8 |
| Volume 1 F2P2 | A2G2 (2)(b)(ii) & (c) | A5G3 (1) (d) & (e) – Test Report & Expert Judgement | Items 1, 4, 5, 7 & 8 |
| Volume 2 H4P1 | A2G2 (2)(b)(ii) & (c) | A5G3 (1) (d) & (e) – Test Report & Expert Judgement | Items 1, 4, 5, 7 & 8 |
| Volume 1 C2D11 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1, 9 & 10 |
| Volume 1 J4D6 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1 & 11 |
| Housing Provisions 13.2.5 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1 & 11 |
| Volume 1 SA F2P3 | A2G2 (2)(b)(ii) & (c) | A5G3 (1) (d) & (e) – Test Report & Expert Judgement | Items 1, 4, 5, 7 & 8 |
| Volume 2 SA H4P1 (2) | A2G2 (2)(b)(ii) & (c) | A5G3 (1) (d) & (e) – Test Report & Expert Judgement | Items 1, 4, 5, 7 & 8 |
| Volume 1 NSW J4D6 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1 & 11 |
| Housing Provisions NSW 13.2.5 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1 & 11 |
| Housing Provisions NT 13.2.5 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1 & 11 |
| Volume 1 TAS Part J4 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1 & 11 |
| Housing Provisions TAS Part 13.2 | A2G3 (2)(a) | A5G3 (1) (d) – Test Report | Items 1 & 11 |

B2 Reports

The following reports have been used as evidence to determine compliance with BCA 2022:

| Ref | Author | Reference | Date | Description | NATA Registration |
|-----|--|--|-------------|----------------------------------|-------------------|
| 1. | Stile Board Pty Ltd | Stile Board Installation Manual, Version 2 | 2 Aug 2024 | Technical & Installation Manual | - |
| 2. | Mahaffey & Associates | 20156 Impact | 14 Jan 2021 | Structural test report | 1393 |
| 3. | Mahaffey & Associates | 20156 Compressive Loading | 25 Jan 2021 | Structural test report | 1393 |
| 4. | Ian Bennie & Associates | 2020-080-S2 | March 2021 | Load & Water Spray Test Report | 2371 |
| 5. | Ian Bennie & Associates | 2020-080-S3 | March 2021 | Load & Water Spray Test Report | 2371 |
| 6. | Hendry Group | 20200393 | 16 Aug 2021 | Structural Compliance Report | - |
| 7. | Waterproofing Integrity | WIR-1807 | 9 Jul 2024 | NCC 2022 Performance Appraisal | - |
| 8. | Azuma Design | AZT0175.24 | 28 May 2024 | Load & Water Spray Test Report | 15147 |
| 9. | IGNIS Labs | IGNL-7070-03-01C I01R01 | 11 Aug 2023 | Fire Test Certificate | IAS TL-1162 |
| 10. | IGNIS Labs | IGNL-7070-99L I01R00 | 11 Aug 2023 | Fire Compliance Report | IAS TL-1162 |
| 11. | Intertek Testing Services Shenzhen Ltd | 200925004SHF-001-R1 | 20 Oct 2020 | Thermal Conductivity Test Report | IAS TL-394 |

The Certificate Holder has chosen not to make the above identified evidence of compliance publicly available, due to the documents being considered commercial in confidence.