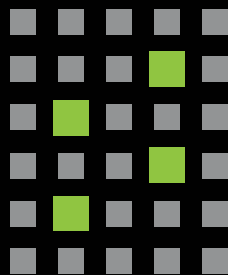


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STILEBOARD®
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PRODUCTS



(02) 9688 1002

WWW.STILEBOARD.COM.AU
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Certified for Australian standards



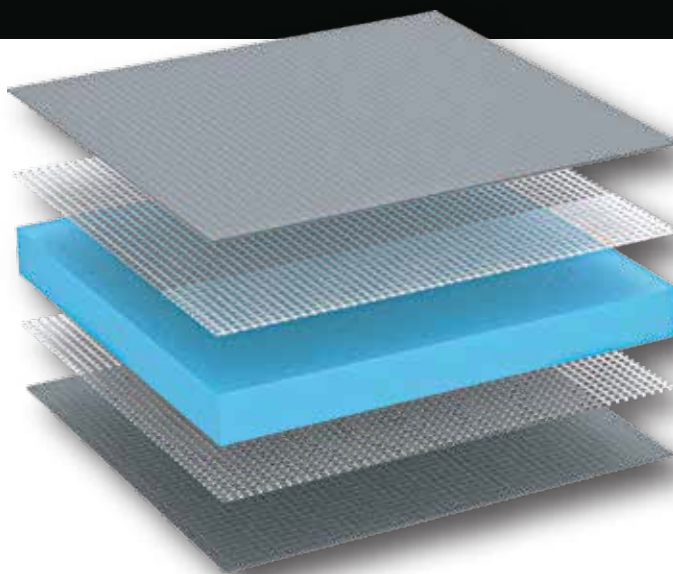
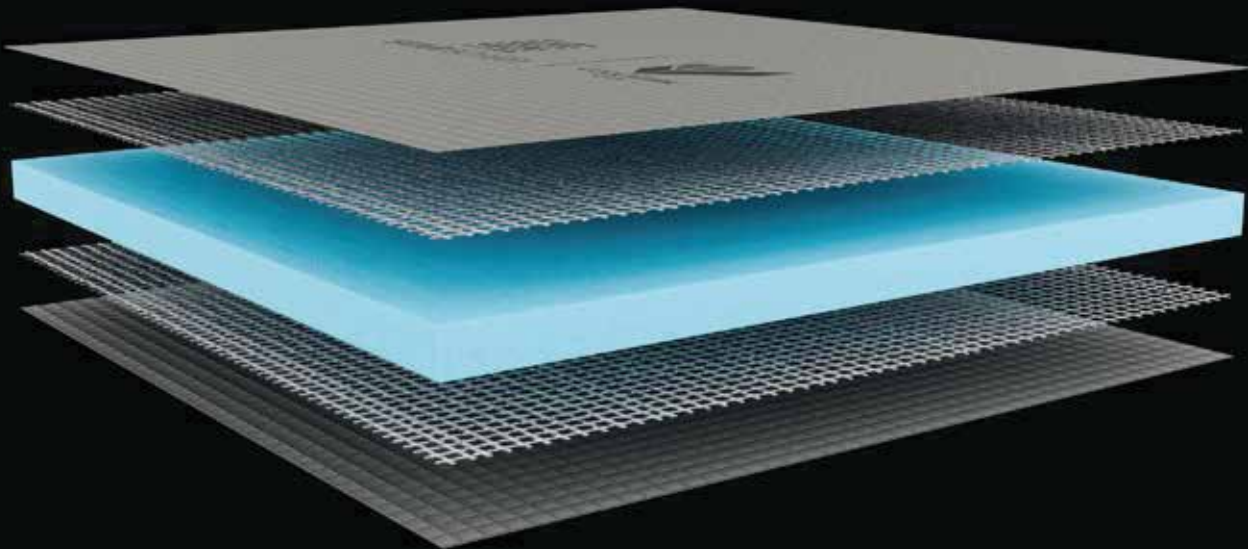
AS4858

AS4654.1



PRODUCT OVERVIEW

Stile Board is an advanced construction material specifically designed for bathroom installations. It features a core of 100% waterproof XPS foam, reinforced with fiberglass mesh, and coated with a modified polymer mortar. As an insulated sandwich panel, Stile Board offers exceptional thermal properties alongside structural reliability. Designed for versatility, it comes in multiple thicknesses and sizes to meet diverse installation needs. Stile Board is engineered for durability, ease of installation, and superior performance.



← **POLYMER MORTAR**

← **ALKALI MESH**

← **XPS CORE**

← **ALKALI MESH**

← **POLYMER MORTAR**

Stile Board brings superior strength and bonding surface for your tiles. XPS is also a great insulation material.

Technical features

In the following sections, we delve into the technical features that underscore the superiority of the Stile Board. These details highlight the core attributes of its XPS composition, focusing on its impermeable waterproof nature, outstanding insulation capabilities, and steadfast moisture resistance. These features collectively contribute to the remarkable durability of XPS, offering invaluable insights into why the Stile Board is an indispensable solution for your tiling needs.

PROPERTIES OF THE TILE STILE BOARD

Property	Assessed to	Rating
Load and water spray test	IAPMO PS 106-2015 5.1 NATA accredited to AS4284	pass
Compressive Strength (10% deflection)	AS/NZS 1170.1:2002	2kPa +
Bond Strength	BS EN 1384	0.3N/mm2
Maximum Tile Loading Weight	CERAM121107	62kg/m2
Flexural Strength	ASTM C203	2.05 ± 0.02 MPa
Water Vapour Permeability (Sd)	DIN EN 12086	3.2m
Impact load test	ASTM E695-03 NCC VolI	3 x 120N/m
Bending Stiffness, E (20mm / 30mm)	EN 12089	601KNmm2 / 1285 kN/mm2
Coefficient of linear expansion	N/A	30 x 10-6 K-1
Flammability	AS/NZS 1530.3	0
Smoke development	AS/NZS 1530.3	4
Impact Sound Reduction	BS-ISO140-8	dLw = 21
Shear Bond Strength	EN 1448	3.32kg/cm2
EU controlled substances content	N/A	none
Internal waterproofing performance and durability	AS/NZS4858	PASS
External waterproofing performance and durability	AS0NZS4654.1	PASS
Thermal R-Value	AS/NZS 4859.1 (120mm thickness)	3.95 m²k/w
Thermal R-Value	AS/NZS 4859.1 (8mm thickness)	0.20 m²k/w

Stile board insulated sandwich panel

THERMAL INSULATION VALUES OF THE STILE BOARD

XPS Thickness (mm)	Board Thickness (mm)	k-Value (W/m·K)	R-Value (m²·K/W)	U-Value (W/m²·K)
8	10	0.03038	0.263	3.802
10	12	0.03038	0.329	3.041
18	20	0.03038	0.592	1.689
28	30	0.03038	0.922	1.084
38	40	0.03038	1.251	0.799
48	50	0.03038	1.580	0.633
58	60	0.03038	1.909	0.524
83	85	0.03038	2.732	0.366
98	100	0.03038	3.226	0.310
108	110	0.03038	3.555	0.281
120	122	0.03038	3.950	0.253

• 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.

KEY FEATURES



UNPARALLELED STRENGTH

Provides a robust bonding surface for tiles.



CRACK-ISOLATION CAPABILITY

Reduces the impact of substrate movements on tile integrity.



LIGHTWEIGHT DESIGN

Facilitates easier handling and faster installation, reducing labor time.



EASE OF INSTALLATION

Engineered for quick installation, saving time and labor.



SUPERIOR INSULATION

The XPS core enhances thermal efficiency within the bathroom.



MOLD AND MOISTURE RESISTANCE

Ensures longevity and a healthy bathroom environment.



WATERPROOF

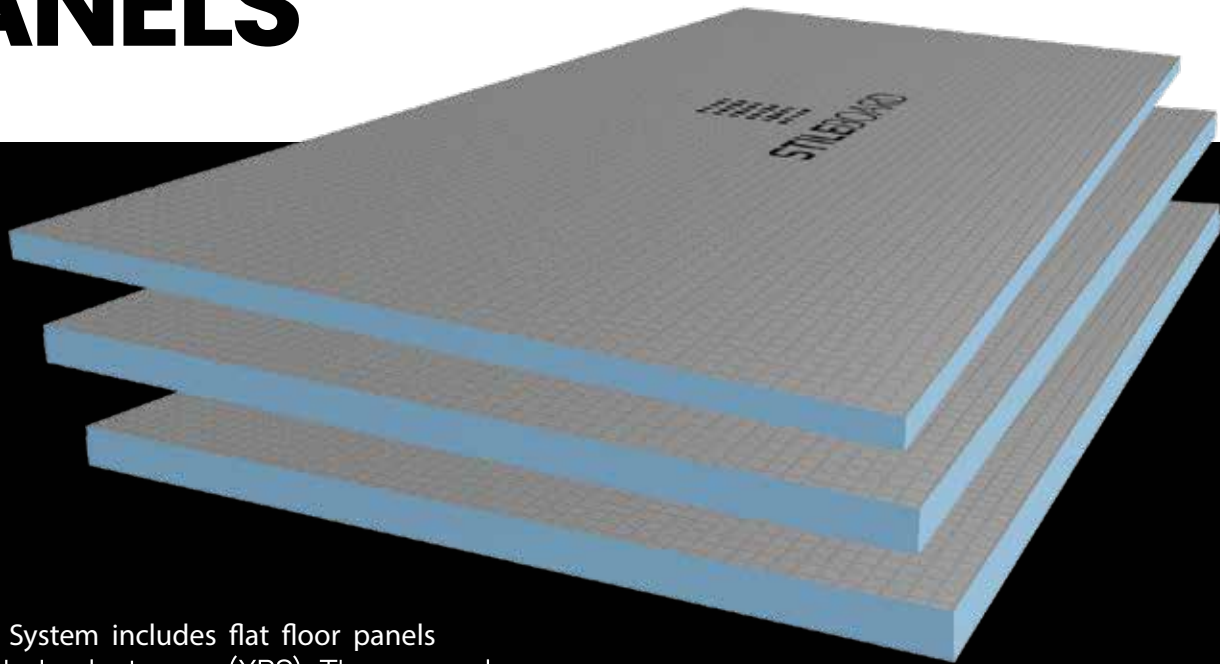
Prevents permeation by water.



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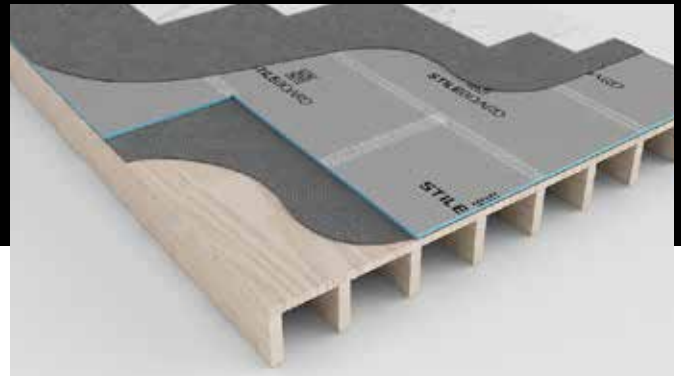
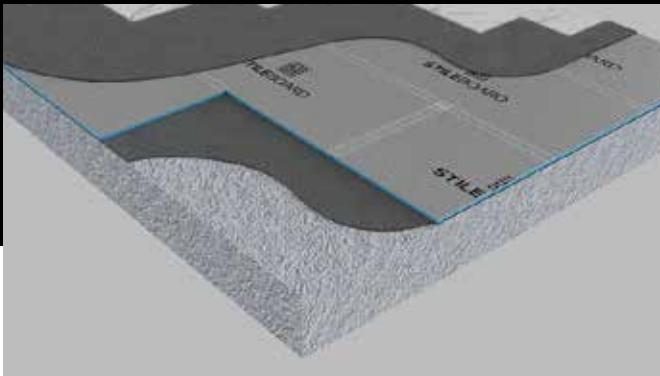
FLOOR PANELS



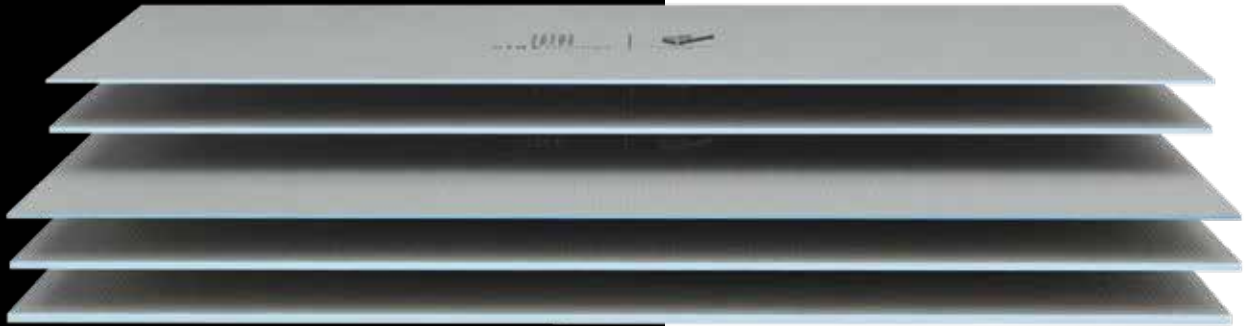
The Stile Board System includes flat floor panels made of extruded polystyrene (XPS). These panels typically come in sizes 900x1800mm and 1200x2400mm, with thicknesses ranging from 20mm to 50mm. Designed to surround 4-way slope panels in wet areas, these floor panels can be manipulated with minimal fall if required. The 30mm to 50mm thick panels are versatile, suitable for framing baths, downpipes, and building vanity units, among other applications. While these panels are structural, they have some limitations regarding load-bearing capacity.

Sizes

1800x900x30
1800x900x40
1800x900x50
2400x1200x20



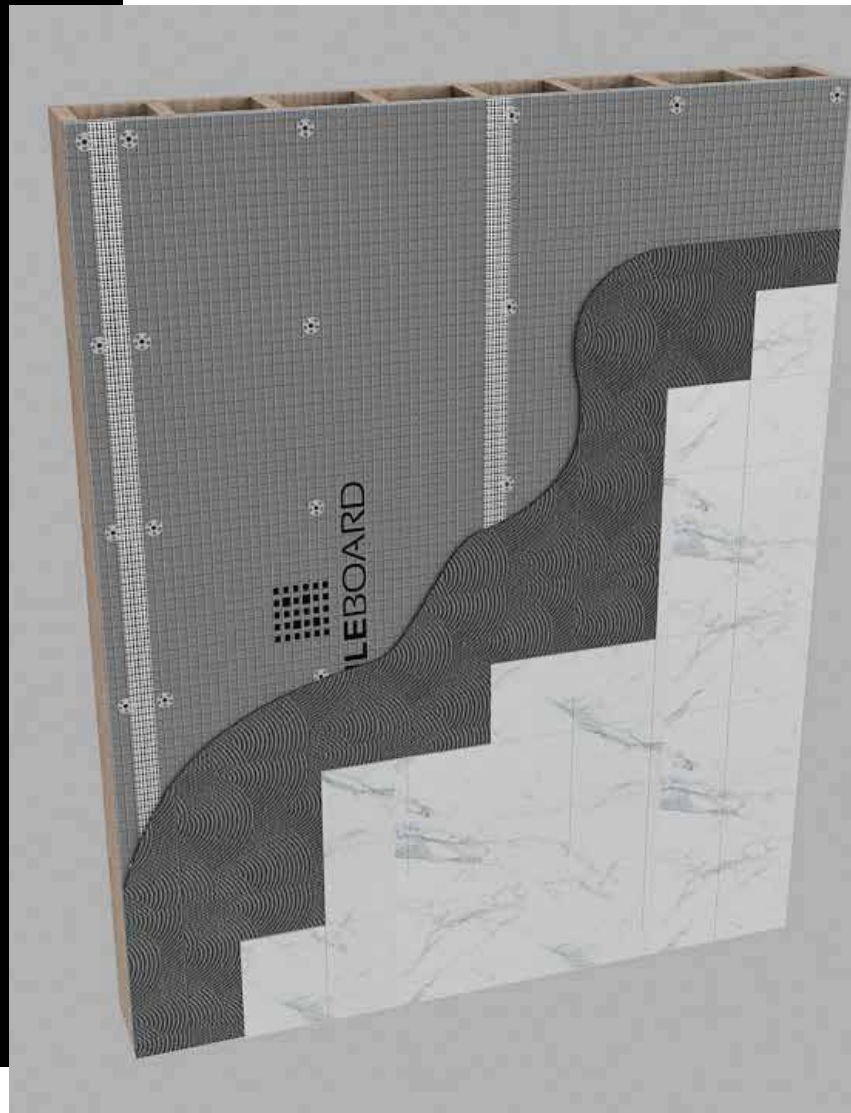
Wall Panels



The Stile Board System includes wall panels made of extruded polystyrene (XPS). These panels are the ultimate tile backer boards for all types of wall structures, including framed walls and solid brick or block walls. Available in various thicknesses and two sizes to suit different applications, these panels are lightweight, easy to cut, and handle. This makes them the perfect choice for a reliable and efficient wall tile backer board, ensuring durability and ease of installation in any construction project.

Sizes

2400x900x8
2400x900x12.5
2400x1200x8
2400x1200x15.5
2400x1200x20
1200x600x6



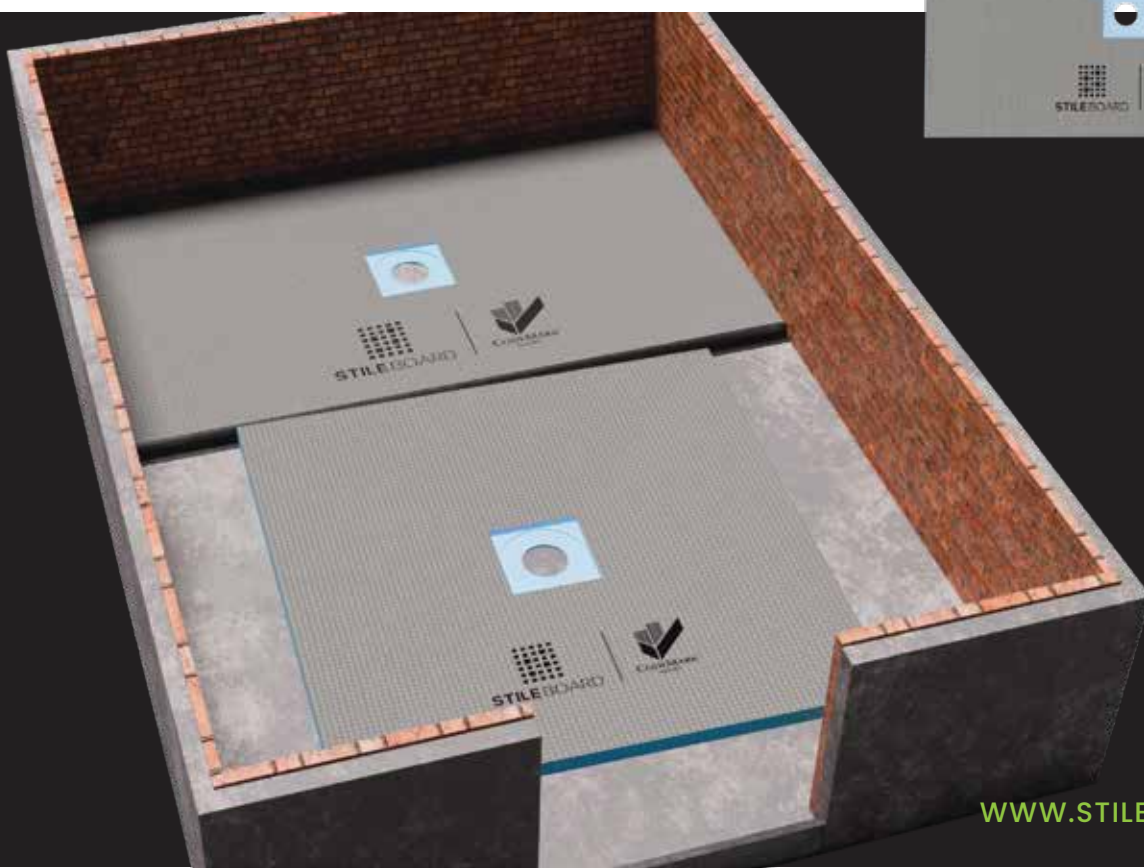
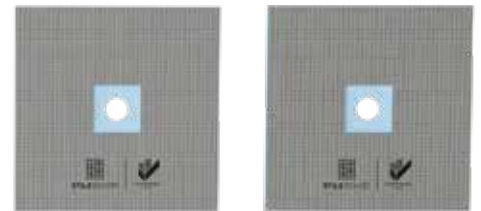
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4 Way Slope Panels

The Stile Board System includes 4-way slope panels made of extruded polystyrene (XPS) tile backer board. These panels are designed to accommodate floor waste, featuring an integrated 1:80 fall towards a central floor waste with a 4-way slope. Available in various sizes to suit different shower recess dimensions, these panels come in two thicknesses, 30mm and 40mm, making them ideal for use in wet areas. The precise engineering ensures efficient water drainage and seamless integration with other Stile Board components, providing a reliable solution for wet area installations.

Sizes

600x600x30
 600x600x40
 900x900x30
 900x900x40
 1200x1200x30
 1200x1200x40
 1800x1100x30
 2440x1220x40





Curved Panels

Size

2500x600x20

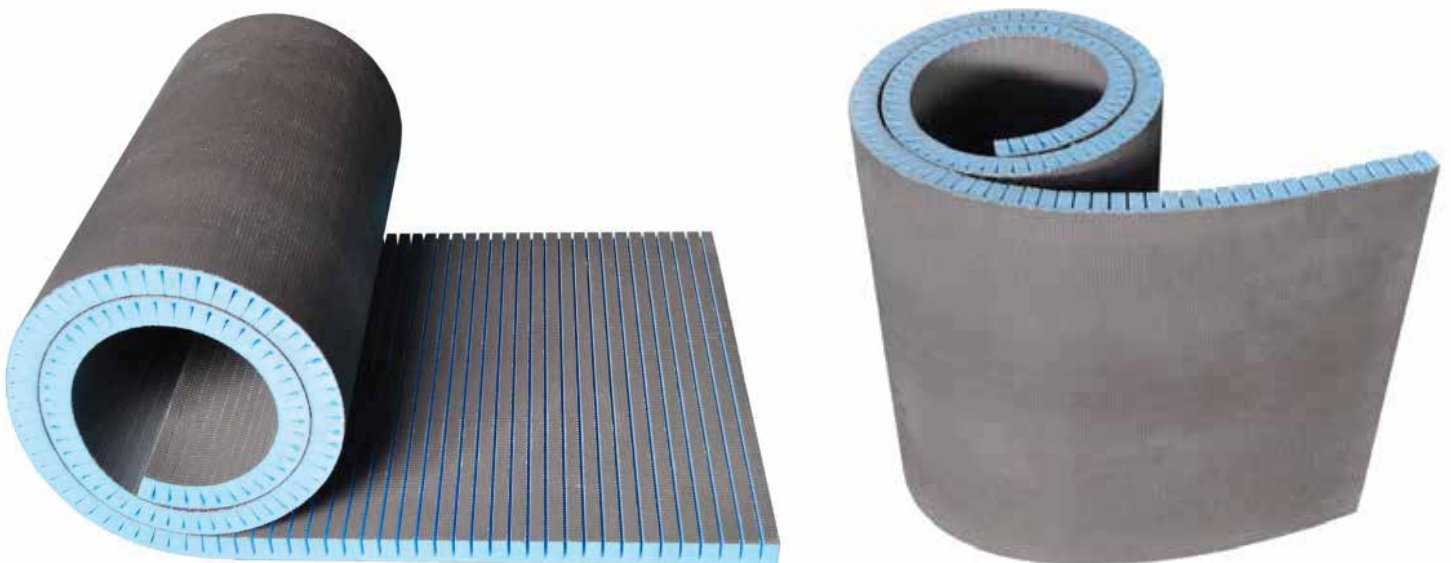
Pre-Slit Curved Stile Board Panels

Shape Your Vision

The Pre-Slit Curved Stile Board Panel is designed to give builders and designers the creative edge when it comes to curved and organic architectural forms. Made from our signature waterproof XPS core with factory-cut slits for easy bending, this panel makes it simple to shape and form moulded tiled benches, rounded cubes, archways, columns, and other bespoke features.

Engineered for performance, it maintains the structural benefits of the Stile Board system while allowing flexibility in form. Whether you're adding soft lines to a luxury bathroom or building custom furniture features, the curved panel brings imagination to life—without the need for complex framing or multiple layers.

Pre-Slit for Flexibility – Effortlessly bends to form tight curves and smooth radii
Ideal for Moulded Benches & Rounded Structures – Perfect for tiled seating, columns, and curved features
100% Waterproof XPS Core – Built for wet areas and long-term durability
Tile-Ready Surface – Reinforced and coated for direct tiling
Creative Freedom Meets Practical Buildability – Save time on complex framing with ready-to-use curved solutions
Push the boundaries of design with Stile Board's pre-slit curved panel—where functionality meets form.



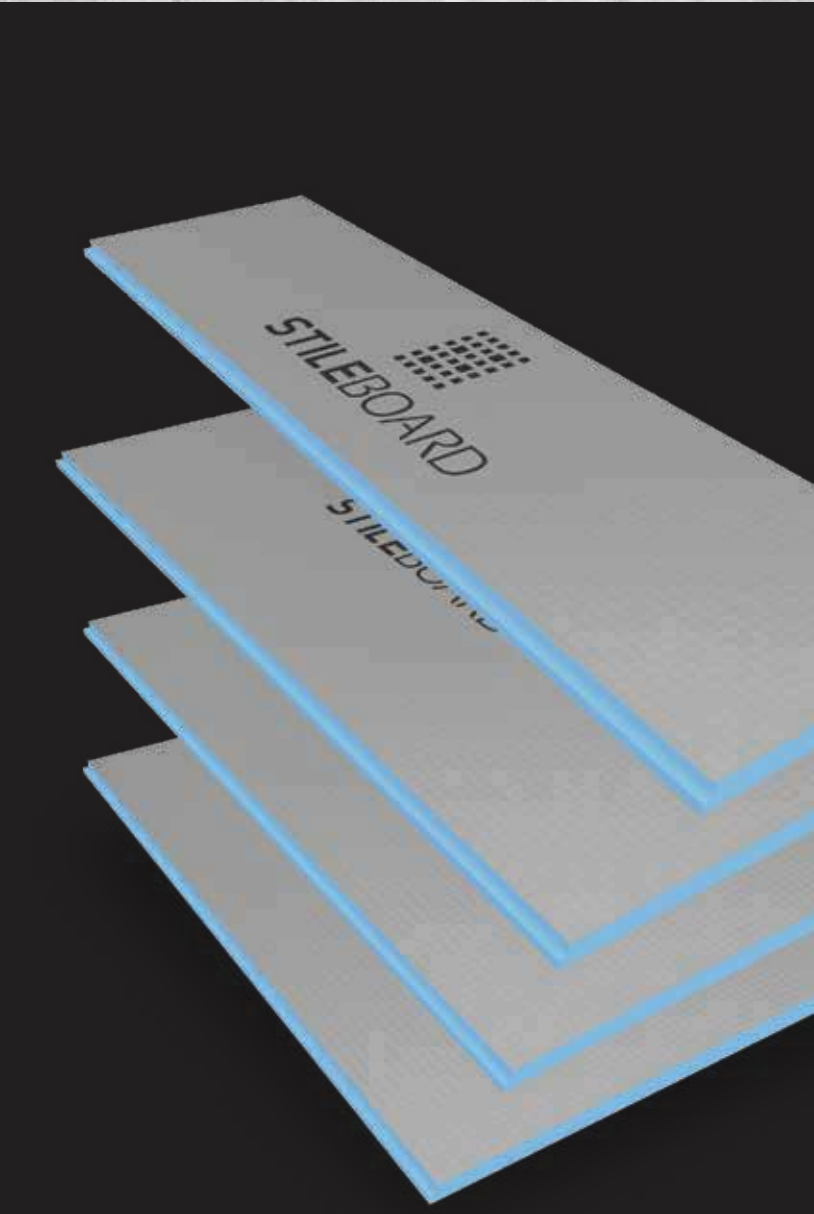


Single Slope Panels

The Stile Board System features single slope panels made of extruded polystyrene (XPS) tile backer board. These panels are integrated with a single slope 1:80 fall gradient to allow sufficient water drainage when integrating with linear drains in the design. The single slope panels come in various sizes to accommodate versatility when dealing with different drain locations. Single slope panels can create a single slope towards a linear drain positioned at the wall or a 2-way slope with falls on both sides of the linear drain, ensuring efficient water management in your designs.

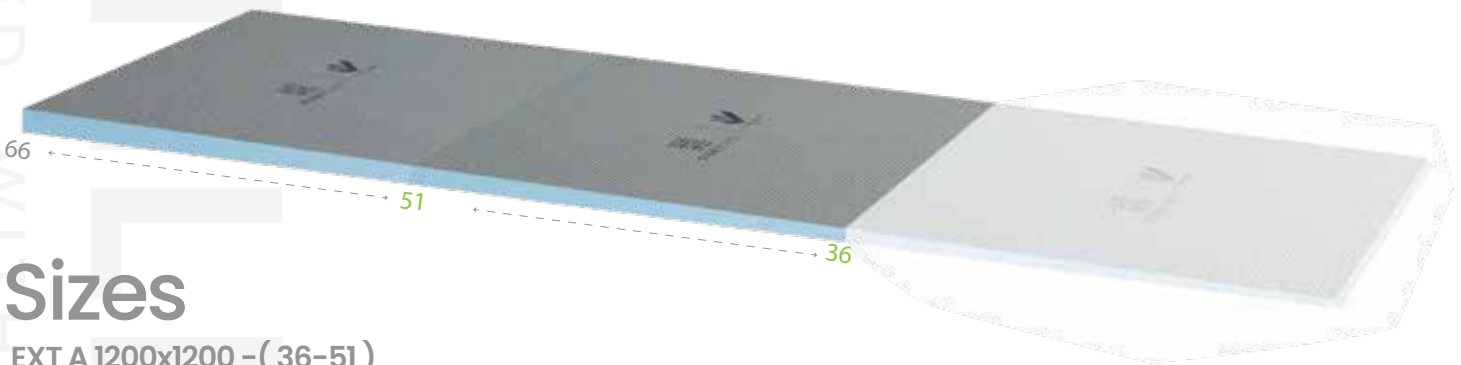
Sizes

1200x300 - (21-24.8)
1200x600 - (21-28.5)
1200x900 - (21-32.3)
1200x1200 - (21-36)





Single Slope Extender Panels

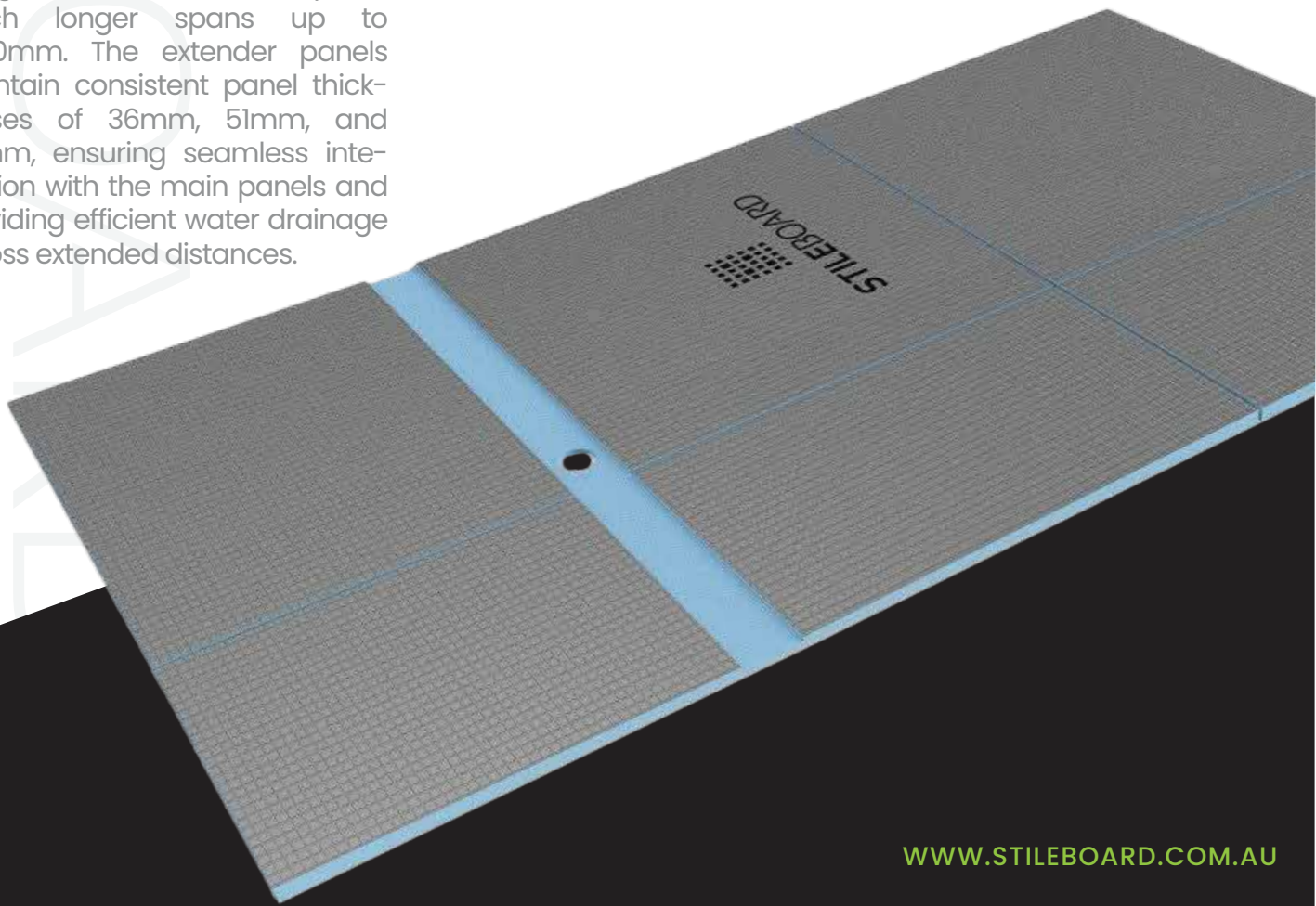


Sizes

EXT A 1200x1200 - (36-51)

EXT B 1200x1200 - (51-66)

The Stile Board System includes single slope extender panels made of extruded polystyrene (XPS). These panels are integrated with a continuous 1:80 fall gradient, designed to extend the slope to reach longer spans up to 3600mm. The extender panels maintain consistent panel thicknesses of 36mm, 51mm, and 66mm, ensuring seamless integration with the main panels and providing efficient water drainage across extended distances.



Linear Support Panels

The Stile Board System includes linear supports made of extruded polystyrene (XPS). These supports are specifically designed to integrate with single slope panels, providing essential support for linear drains. Featuring a recess to accommodate various drain thicknesses, the linear support is a key component of our patented system. This design offers users the versatility to work with different drain locations, ensuring seamless integration and optimal water drainage in their construction projects.



Sizes

1250x256x23
1500x256x23 (Centre Drain)
1500x256x23 (Off-set Drain)



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Niche Boxes

The Stile Board System includes niche boxes made of extruded polystyrene (XPS). These niche boxes are designed to integrate seamlessly with the tile backer board waterproof system, offering a convenient and reliable solution for creating niches in shower or bath areas. Available in four different sizes, these niche boxes provide flexibility and ease of installation, ensuring a perfect fit for your specific needs.

Sizes

350x350x100
 600x350x100
 900x350x100
 1200x350x100



Puddle Flange



Sizes

50mm
80mm
100mm

Verify that its size is compatible with your drain size. It is used in linear or floor waste supports and should be anchored using PVC adhesive and the Stile Flex sealant.



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Angle Profiles



Important for projects involving shower recesses, especially for step-downs and water-stops at doorways. Our online tool can assist in determining the required variants and quantities.



Sizes

70x60x2mm Aluminium Angles
(Silver / Black / Gold)

60x50x2mm Aluminium Angles
(Silver / Black / Gold)

50x60x2mm Aluminium Angles
(Silver / Black / Gold)

25x15x2mm Aluminium T-Angles
(Silver / Black / Gold)

45x15x2mm Aluminium T-Angles
(Silver / Black / Gold)



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Mechanical Fixings

Stile Board Mechanical fixings are used to securely anchor Stile Boards to brick or block walls after the adhesive has dried, ensuring stability with 600mm spacing between each fixing.

Sizes

Galvanized

8x80mm
8x50mm



Washers & Screws

Stile Board washers and screws are used to securely anchor Stile Boards to framed walls with 300mm spacing, ensuring a stable and durable installation.



Type
Galvanized with Tab



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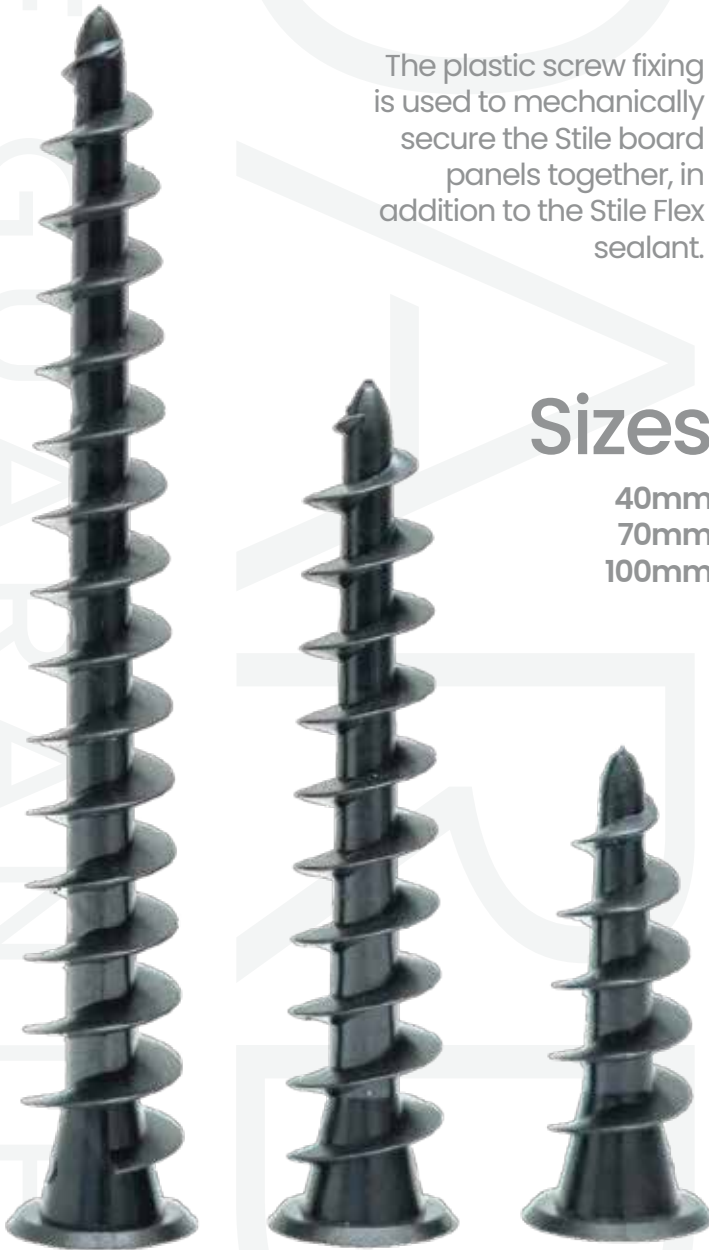


Plastic Mechanical Screw Fixing

The plastic screw fixing is used to mechanically secure the Stile board panels together, in addition to the Stile Flex sealant.

Sizes

40mm
70mm
100mm





Joint Sealant Adhesive

The specified Stile Flex Sealant is essential for ensuring a leakproof installation.

Sizes

600mL Sausage



Waterproof Membrane

Use the Stile Fusion waterproof membrane specified for Stile Boards. It should be applied over the cured sealant on the joints to ensure effective waterproofing.



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Joint Waterproof Bandage

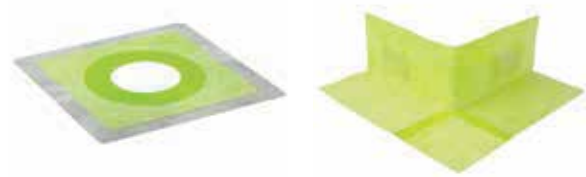
For use in shower recess joints, this product should be applied over cured sealant and embedded into the Stile Fusion waterproof membrane for enhanced protection.

Stile Fusion Flex IC

Stile Fusion Flex EC

Stile Fusion Pipe Seal Sizes: 12cmx12cm

15cmx15cm 19cmx19cm



Sizes

12.5cmx10m Roll



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