



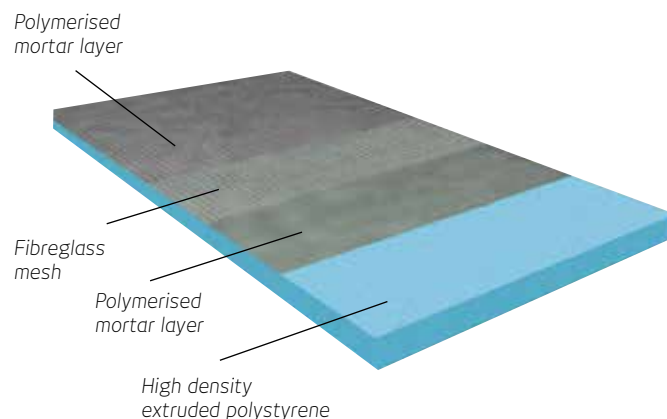
THERMASHEET
WATERPROOF. LIGHTWEIGHT.
BUILT FOR DESIGN.

THERMASHEET

About ThermaSheet

Thermasheet™ is a high-performance waterproof construction board engineered for modern building applications requiring strength, insulation, and complete moisture resistance. Similar to internationally recognised systems such as WEDI® and Marmox®, ThermaSheet™ provides a lightweight yet rigid substrate ideal for tiling, microcement, rendered finishes, and decorative coatings across residential and commercial environments.

Manufactured with a high-density XPS core and reinforced cementitious coating, ThermaSheet™ combines thermal insulation, dimensional stability, and exceptional workability into a single versatile panel system.



Key benefits

- 100% waterproof core
- Lightweight and easy to handle
- High compressive strength
- Excellent thermal insulation properties
- Fast cutting and installation
- Suitable for curved and custom shapes
- Compatible with tiles, stone, render, and microcement
- Resistant to mould and moisture damage
- Ideal for interior and exterior use.



ENERGY SAVING



TILE READY SURFACE



WATERPROOF



LIGHTWEIGHT



ENHANCES
UNDERFLOOR HEATING



INTERNAL +
EXTERNAL USE



RANGE OF SIZES



HIGH COMPRESSIVE
STRENGTH



CUTS EASILY



ECO FRIENDLY



RENDER + PLASTER
READY SURFACE



SOUND REDUCTION

Practical applications



Using our 30 mm pre-scored ThermaSheet boards, they created a seamless curved shower screen and a matching curve around the bath, resulting in a cohesive, flowing design. With the boards already waterproof, the microcement was applied directly to the surface.



Bathrooms and wet areas

Thermasheet™ is specifically designed for high-moisture interior applications including bathrooms, ensuites, laundries, steam rooms, and spa surrounds. Its waterproof core eliminates the swelling, deterioration, and mould risks associated with traditional fibre cement and plasterboard substrates.

Ideal applications include:

- Tiled shower walls and niches
- Curved walk-in showers and radius shower partitions
- Floating vanities and custom bathroom furniture
- Bathtub surrounds and boxed-out plumbing features
- Curved bathroom walls and sculptural features
- Microcement bathroom walls and floors
- Steam room and wellness installations.

Thermasheet™ curved board systems allow designers and builders to create seamless organic forms and architectural detailing with minimal weight and fast installation.

The lightweight composition allows curved and straight panels to be cut, shaped, and installed efficiently while providing a stable, crack-resistant substrate for large-format porcelain tiles, stone, and seamless decorative coatings.



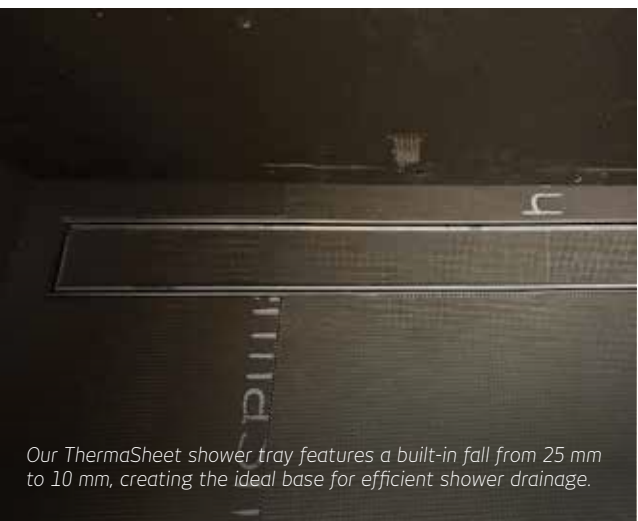
As an alternative to traditional villa board, ThermaSheet offers a wide range of additional benefits, reducing installation time and labour costs.



With its lightweight extruded polystyrene (XPS) core, ThermaSheet is quick and easy to cut and shape, making it the perfect solution for constructing and encasing concealed toilet systems.



Our ThermaNiche is a pre-fabricated shower niche that provides stylish, practical storage for your shower essentials. With a built-in fall, it ensures water drains away, preventing it from sitting on the shelf.



Our ThermaSheet shower tray features a built-in fall from 25 mm to 10 mm, creating the ideal base for efficient shower drainage.



Using our 50 mm ThermaSheet boards, they were able to create false wall structures and a shower hob without the need for traditional timber framing or brickwork. This eliminated the need for an additional trade, saving both time and installation costs.



Using our ThermaSheet boards externally provides a substrate that can be rendered, tiled or microcemented directly, while also delivering excellent thermal insulation and acoustic benefits. This helps improve the building's energy efficiency and reduces the transmission of external noise.



Radiant's pre-scored Curved ThermaSheet boards were used to clad the existing columns at Westfield Whitford City, saving time and labour while creating a seamless render-ready finish.

House and garden exterior applications

Thermasheet™ is equally suited to demanding exterior environments where durability, moisture resistance, and thermal stability are essential. The board can be used beneath exterior tile systems, textured coatings, and microcement finishes to create clean architectural forms and long-lasting outdoor surfaces.

Typical exterior uses include:

- Exterior feature walls and facades
- Curved architectural facades and feature structures
- Outdoor kitchens and BBQ cabinetry
- Balcony and alfresco wall linings
- Garden benches and planter structures
- Rounded garden walls and landscape features
- Poolside architectural detailing.

Its thermal insulation properties also assist in reducing temperature transfer while maintaining dimensional stability in changing weather conditions. Curved ThermaSheet™ panels enable contemporary exterior designs with flowing lines and seamless finishes that would traditionally require heavy masonry construction.



Our Curved ThermaSheet boards open up endless design possibilities, allowing you to create striking architectural features both indoors and outdoors. From curved feature walls and shower screens to external seating, planter boxes, and landscape elements, they provide a lightweight, waterproof, and easy-to-shape solution for achieving seamless curved designs.



Outdoor furniture and spa construction

Thermasheet™ is increasingly used in custom outdoor furniture and wellness projects due to its combination of structural rigidity, water resistance, and lightweight handling. Builders and designers can fabricate bespoke forms quickly without the weight and limitations of masonry construction.

Suitable applications include:

- Tiled outdoor lounges and seating
- Curved seating and architectural furniture
- Daybeds and custom-built outdoor features
- Spa surrounds and plunge pool cladding
- Firepit seating structures
- Custom tiled tables and benches
- Microcement outdoor furniture systems.

The board can be cut, shaped, and assembled with ease, allowing designers to create seamless contemporary finishes and curved architectural forms with minimal structural load.



Using ThermaSheet in this external patio eliminated the need for screeding, allowing tiles to be laid directly onto the boards. At the same time, its high insulation properties help reduce heat loss and improve the overall energy efficiency of the home.

Designed for tiles and Microcement

Thermasheet™ provides an ideal substrate for both traditional tiling systems and modern seamless finishes such as microcement. The reinforced surface ensures excellent adhesion while minimising movement and cracking.

Compatible finishes include:

- Porcelain and ceramic tiles
- Natural stone
- Mosaic systems
- Decorative renders
- Venetian plaster
- Microcement and resin coatings.

Its smooth, stable surface helps achieve premium architectural finishes in both interior and exterior environments, including curved applications and seamless monolithic designs.

Using a combination of ThermoSheet board thicknesses, the builder created the entire bathroom structure ready for a seamless microcement finish. This innovative approach delivers a modern, high-end look while reducing labour, installation time, and overall renovation costs.



A modern alternative to traditional building materials

Thermasheet™ replaces the need for heavy masonry, fibre cement, and conventional wet-area substrates in many applications. The system significantly reduces installation time while delivering superior waterproofing and design flexibility for contemporary architectural projects.

Whether used in luxury bathrooms, curved shower systems, outdoor entertaining areas, architectural facades, spa installations, or custom furniture construction, Thermasheet™ delivers a durable, professional substrate ready for premium finishes.

ThermaSheet's versatility allowed this fun yet highly functional dog wash to be seamlessly incorporated into the laundry, eliminating the need for costly bespoke cabinetry while creating a durable, waterproof, and stylish finish.





ThermaSheet provided a cost-effective substrate for this extensive balustrading. The boards were then coated directly with microcement to achieve a seamless, contemporary finish.



Lining the concrete slab with 10 mm ThermaSheet significantly reduces downward heat loss, allowing underfloor heating systems to warm up faster while improving energy efficiency.



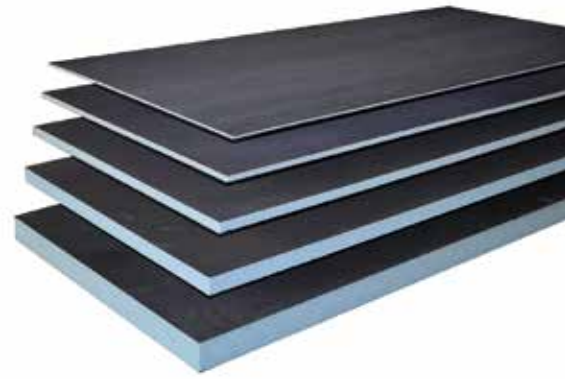
The lightweight XPS core is also quick and easy to cut and shape, making it simple to adapt on site for walls, niches, boxing, and custom features. Combined with excellent thermal insulation, ThermaSheet provides a faster, more efficient building solution.

Products

TILE BACKER/INSULATION BOARDS

ThermaSheet's waterproofing and insulation properties are useful in both internal and external wet areas that are exposed to moisture. The specially manufactured cement polymer coated board gives the ideal surface to lay your tiles directly.

CODE	THICKNESS	DIMENSIONS
RTTB-06-1200	6 mm	1200 x 600 mm
RTTB-10-1200	10 mm	1200 x 600 mm
RTTB-10-2400-900	10 mm	2400 x 900 mm
RTTB-12-1200	12 mm	1200 x 600 mm
RTTB-12-2400-900	12 mm	2400 x 900 mm
RTTB-20-1200	20 mm	1200 x 600 mm
RTTB-30-1200	30 mm	1200 x 600 mm
RTTB-50-1200	50 mm	1200 x 600 mm
RTTB-50-2500-1200	50 mm	2500 x 1200 mm
RTTB-100-2500-1200	100 mm	2500 x 1200 mm



CURVED BOARDS

The curved boards have a scored surface to one face allowing the board to bend easily around pre-formed sub structures. It can be used to create archways and curved walls, or clad curved bathtubs or spas.

CODE	THICKNESS	DIMENSIONS
RTTBBC-20-1250	20 mm	1250 x 600 mm
RTTBBC-20-2500	20 mm	2500 x 600 mm
RTTBBC-30-1250	30 mm	1250 x 600 mm
RTTBBC-30-2500	30 mm	2500 x 600 mm
RTTBBCLONG-20-1250	20 mm	1250 x 600 mm
RTTBBCLONG-20-2500	20 mm	2500 x 600 mm
RTTBBCLONG-30-1250	30 mm	1250 x 600 mm
RTTBBCLONG-30-2500	30 mm	2500 x 600 mm

* Minimum recommended radius:

20 mm boards – 150 mm / 30 mm boards – 200 mm



WALL NICHE

Radiant ThermoNiche prefabricated and waterproofed wall niches are perfect for easily creating additional storage in your shower.

CODE	THICKNESS	DIMENSIONS
REGULAR NICHE Dimensions are given as external measurements		
RSN01 / RSN05 (90/70 mm)	–	355 x 355 mm
RSN02 / RSN06 (90/70 mm)	–	425 x 365 mm
RSN03 / RSN07 (90/70 mm)	–	605 x 355 mm
RSN04 / RSN08 (90/70 mm)	–	905 x 260 mm
RSN09 (90 mm)	–	625 x 425 mm
RSN10 (90 mm)	–	1000 x 355 mm
RSN12 (90 mm)	–	1500 x 345 mm
CURVED NICHE		
RSNC20 (90 mm)	–	350 x 450 mm
RSNC21 (90 mm)	–	350 x 600 mm



WEDGE/SOWER TRAYS

Our shower trays are designed to make the tiling of walk-in showers simple. Designed for projects where falls to floor need to be created over existing level floors in wet rooms and balconies. Our predetermined boards have a fall of 25 – 10 mm.

CODE	THICKNESS	DIMENSIONS
RST	25 mm – 10 mm fall	1000 x 1500 mm



SHOWER SEATS

Radiant shower benches and corner benches have been designed and manufactured to provide a tile ready, sturdy, lightweight site assembly solution for installing seats in showers, steam rooms and saunas.

CODE	DESCRIPTION	DIMENSIONS
RSB-1200	Shower seat	1200 x 450 x 470 mm
RSBC-1200	Curved shower seat	1200 x 450 x 470 mm
RSBCB-1200	Curved shower seat with back	1200 x 586 x 870 mm
RSB-CNR-1000	Corner shower seat	1000 x 450 x 470 mm
RSBC-CNR-1000	Curved corner shower seat	1000 x 450 x 470 mm
RSBCB-CNR-600	Curved corner shower seat with back	600 x 600 x 870 mm



Technical specifications

PROPERTY	ASSESSED TO	RATING
Xps Density	DIN 53420	36 ± 0.02 kg/m ³
Thermal Conductivity	EN 12167	0.033 W/m.K
Compressive Strength (10% deflection)	EN 826	300 k/Pa (3 tonnes/m ²)
Flexural Strength	ASTM C203	0.30 ± 0.02 MPa
Water Absorption (2-day immersion)	ISO 2896	0.2% by volume
Water Absorption (Capillary)	DIN 53428	Zero
Water Vapour Diffusion Resistivity (μ)	DIN 52615	110 - 225 (μ)
Water vapour Permeability	ASTM E-96	0.028 ng/Pa.m.s
Maximum Tile Loading Weight	CERAM 121107	60kg/m ²
Flammability	AS/NZS	1530.3.1999
Impact Sound Reduction	BS-ISO140-	dLw=21
EU Controlled Substances Content	N/A	None

As ThermaSheet is a relatively thin substrate, it will not usually meet specific insulation requirements (R-Value) on its own, but it will provide a THERMAL BREAK between substrates. Its R value will of course be added to the R value of the combined structure (walls or floor) to improve energy efficiency.

Radiant Australia Pty Ltd

Unit 1 / 18 Profit Pass

Wangara, WA 6065

Telephone: 08 9302 4140

radiant.com.au