



THERMASHEET

WATERPROOF. LIGHTWEIGHT.
BUILT FOR DESIGN.

INSTALLATION MANUAL & TECHNICAL GUIDE



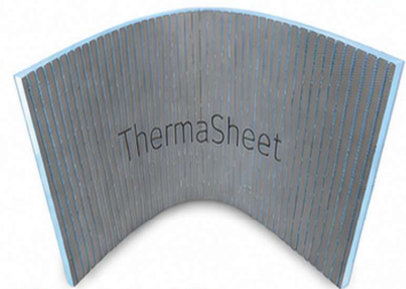
BUILD
WITHOUT
LIMITS

WATERPROOF.
LIGHTWEIGHT.
VERSATILE.



Thermasheet Board

Flat boards in a range of thicknesses
for walls, ceilings and floors.



Thermasheet Flex

Pre-scored curved boards for shower walls,
columns, ceilings and architectural features.



Thermasheet Wall

Pre-fabricated shower or screen wall
with integrated niche.



WATERPROOF
WET AREAS INSIDE
AND OUT



LIGHTWEIGHT
EASY TO HANDLE
AND INSTALL



STRONG & STABLE
A RELIABLE SUBSTRATE
FOR TILES AND FINISHES



VERSATILE
WALLS, FLOORS,
CEILINGS AND CUSTOM
APPLICATIONS



**DESIGNED
FOR AUSTRALIAN
CONDITIONS**

[THERMASHEET.COM.AU](https://thermasheet.com.au)

SIMPLE STEPS. PROFESSIONAL RESULTS.

**THERMASHEET**WATERPROOF. LIGHTWEIGHT.
BUILT FOR DESIGN.

1 SYSTEM OVERVIEW

1.1 OVERVIEW

Thermasheet is a lightweight XPS-core construction board with reinforced cement-polymer faces, designed as a stable substrate for tiles, stone, render, microcement and other compatible finishes. The waterproof XPS core provides moisture resistance and thermal-break benefits while the cementitious faces provide a finish-ready surface.

KEY POINTS Waterproof XPS core • Lightweight and easy to cut • Cement-polymer reinforced faces • Suitable for straight and curved construction • Compatible with tile, render and microcement systems

THERMASHEET BOARD

- Straight wall, floor and ceiling substrates
- Niches, boxing and formed work
- Internal and selected external applications

CURVED BOARD RANGE

- Thermasheet Flex – pre-scored board for smooth curved walls and features
- Thermasheet UltraFlex – tighter-radius curved board
- Thermasheet Shower Wall – prefabricated shower/screen wall

1.2 COMPARABLE BOARD SYSTEMS

Thermasheet belongs to the same broad XPS tile-backer and construction-board category as internationally recognised systems such as wedi® Building Board and Marmox® Multiboard. These systems use waterproof XPS boards faced with cementitious reinforcement; Thermasheet installation requirements in this manual are presented for the Thermasheet system.

1.3 CORE SYSTEM COMPONENTS

Component	Purpose	Typical use
Thermasheet boards	Substrate / insulation board	Walls, floors, ceilings, formed work
Thermasheet Flex & Ultra Flex	Curved Board 10mm, 20mm, 30mm	Curved walls, showers, facades
Therma Niche	Shower & Bathroom Niche	Niche box for shower or bath
Thermasheet Shower Wall	Pre-fabricated shower / screen wall	Fast construction of shower walls and freestanding screen walls
Thermasheet Shower Trays	Pre-formed shower base	Tiled shower floors and wet areas
Thermasheet Shower/Steam Room Seating	Pre-formed seating element	Shower and steam-room benches and seating
Thermasheet Slope Board	Fabricated with 1:80 drainage fall	Wet Room, balcony and alfresco installations
Reinforcing mesh/tape	Joint reinforcement	Board joints and repairs
Thermasheet screws + washers	Mechanical fixing	Timber/steel framing and specified external work
Thermasheet MSP Sealant	Bonding and joint sealing	Board joints, corners, penetrations, interfaces



1 TECHNICAL PROPERTIES & TEST RESULTS

1.4 PUBLISHED TECHNICAL DATA

Published Thermasheet product data for the board range. These values are intended as a general technical reference. Where formal evidence is required for a specific thickness, Thermasheet Flex, Thermasheet UltraFlex or a particular installed configuration, confirm the applicable test report and project requirements.

TECHNICAL REFERENCE The table below summarises the current published Thermasheet board data. Use project-specific test evidence where a particular thickness, system build-up or regulatory classification must be demonstrated.

PROPERTY	ASSESSED TO	RATING
XPS density	DIN 53420	36 ± 0.02 kg/m ³
Thermal conductivity	EN 12167	0.035 W/m.K
Compressive strength (10% deflection)	EN 826	450 kPa (4.5 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	60 kg/m ²
Fire hazard properties	AS/NZS 1530.3:1999	0 / 0 / 0 / 6
Impact sound reduction	BS-ISO 140	dLw = 21
Bond Strength	EN 1607	480kPa

IMPORTANT Thermasheet has a waterproof core, but the completed installation must still be detailed to meet the waterproofing requirements applicable to the project. Joints, penetrations, transitions and wet-area interfaces require particular attention.

Source: Thermasheet 2026 brochure technical specifications; fire indices from current Thermasheet AS/NZS 1530.3 product documentation.



2 BEFORE YOU START

BEFORE INSTALLATION Confirm the substrate, framing, services, waterproofing design, finish weight and fixing method before cutting or fixing boards.

2.1 PREPARATION

CHECK THE SUBSTRATE

- Structurally sound, dry and stable
- Clean and free from dust, oil, release agents and loose material
- Flat enough for the selected fixing/adhesive method
- Framing plumb and secure; sheet edges supported

TYPICAL TOOLS

- Tape measure, straight edge and level
- Utility knife, handsaw or circular/track saw
- Hole saw / multitool for penetrations
- Driver and corrosion-resistant screws
- Caulking gun for Thermasheet MSP Sealant
- Dust extraction and PPE

2.2 CUTTING AND HANDLING

- Measure and mark accurately before cutting.
- Thin boards may be scored and snapped; thicker boards are generally quicker to cut with a fine-tooth saw or circular/track saw.
- Use dust extraction where practical. Wear eye protection and a suitable particulate mask when power cutting.
- Dry-fit boards before applying adhesive or sealant.
- Keep factory-coated faces intact where practical. Protect exposed cut edges in wet or external work as required by the installation detail.

2.3 GENERAL FIXING RULE

FIXING CENTRES Unless a project-specific detail requires otherwise, use corrosion-resistant screws with large washers at approximately 200 mm centres around supported sheet edges and 300 mm centres through the field. Use appropriate fastener length and type for timber, steel or masonry. Do not overdrive washers into the board.

2.4 STUD SPACING GUIDE

Thermasheet Board Thickness	Stud Spacing (Centres)	Notes
6 mm	N/A	Not recommended for direct fixing to stud walls
10 mm & 12 mm	400–450 mm	Standard framed wall applications; confirm finish weight and project conditions
20 mm–100 mm	600 mm	Suitable where wider framing centres are required; confirm finish weight and project conditions

PLEASE NOTE This table should be used as a general guide only. Stud spacing may vary depending on the specific application, the weight and properties of the finished product being used (for example tiles, stone, render or microcement), board orientation, framing condition and project-specific requirements such as wind loads for external applications. Always refer to relevant building codes and seek professional advice where required.

3 FRAMED WALL INSTALLATION

3.1 OVERVIEW

ThermaSheet can be fixed to timber or steel stud walls in internal or external applications. The boards are lightweight, easy to handle and install, and provide a strong, waterproof and stable substrate for tiles, microcement, render and other finishes.

Follow the steps below for a successful installation.

3.2 INSTALLATION STEPS

1 PREPARE FRAME

Ensure the stud frame is plumb, true and clean, with noggings installed where required. Check services are installed and clear of the board.

2 APPLY SEALANT TO FRAME

Apply a continuous bead of ThermaSheet MSP Sealant to the studs (vertical members) at each fixing line before placing the board. This helps with adhesion, support and minimises movement.

3 FIX BOARD

Position the ThermaSheet board against the frame. Fix using corrosion-resistant screws with large washers at the appropriate centres (refer to Stud Spacing Guide). Ensure board-to-board edges are supported by studs or noggings.

4 JOIN BOARDS

Fill all board joints with ThermaSheet MSP Sealant and embed ThermaSheet reinforcing tape. Ensure a continuous waterproof seal at all joints, corners and penetrations.

5 FINISH

Once the sealant has cured, the surface is ready for tiles, render, microcement or other decorative finishes. Use suitable flexible adhesives and follow manufacturer guidelines.



Timber stud wall prior to fixing ThermaSheet



ThermaSheet board fixed over frame



KEY POINTS

- Apply a bead of ThermaSheet MSP Sealant to studs before fixing boards
- Use corrosion-resistant screws with large washers
- Follow stud spacing guide below
- Ensure all board joints are sealed with ThermaSheet MSP Sealant and reinforcing tape
- Suitable for timber or steel framing
- Refer to Sections 7 and 9 for waterproofing and movement joints

3.3 STUD SPACING GUIDE - WALLS

ThermaSheet Board Thickness	Stud Spacing (Centres)	Notes
6 mm	N/A	Not recommended for direct fixing to stud walls
10 mm	400-450 mm	General wall applications
12 mm	400-450 mm	General wall applications
20 mm-100 mm	600 mm	General wall applications



PLEASE NOTE

This table should be used as a general guide only. Stud spacing may vary depending on the specific application, the weight and properties of the finished product being used (e.g. tiles, stone, render or microcement), board orientation, framing condition, and project-specific requirements such as wind loads for external applications. Always refer to relevant building codes and seek professional advice where required.



3

FRAMED WALL INSTALLATION

3.4 STUD SPACING GUIDE - CEILINGS & SOFFITS

Board Thickness	Stud Spacing (Centres)	Notes
12 mm-50 mm	200-450 mm	Dependent on the weight of the tile, microcement or render system used.

PLEASE NOTE

Support spacing must be selected for the complete finished system. Use closer centres where required by finish weight, framing condition, exterior exposure or project-specific engineering.



Full mesh render system over 20 mm Thermasheet board



Thermasheet Flex20 curved board

APPLICATION

Suitable for straight and curved ceilings and soffits when installed with the specified support spacing, fixings, joint treatment and compatible finish system.



4

MASONRY WALLS

KEY POINTS

Choose the fixing method to suit wall condition - maintain full adhesive coverage at all board edges - use additional mechanical support where required

4.1 MASONRY WALL INSTALLATION



Boards installed to masonry wall



Dot-and-dab adhesive pattern with continuous edge coverage

PLUMB WALLS - FULL-BED METHOD

Where walls are plumb and free of excess mortar, trowel a suitable tile adhesive onto the wall or the back of the board using a notched trowel. Press the board firmly into place and check for full, even adhesive contact.

OUT-OF-PLUMB WALLS - DOT AND DAB

For walls that are out of plumb, or where excess mortar prevents full-bed fixing, use the 'dot and dab' method shown. Apply continuous adhesive around every board edge, with sufficient adhesive dabs through the field. Where required, provide additional support using ThermaSheet knock-in washer fixings.

INSTALLATION CHECK

- Wall is sound and free of loose mortar, dust and contaminants.
- Board edges are fully supported with adhesive.
- Boards are checked for line, level and plumb before adhesive cures.
- Mechanical washer fixings are added where required by the substrate or project detail.



5 FLOORS

5.1 OVERVIEW

Thermasheet floor-fixed boards provide a lightweight, insulated and stable substrate for tiled floors and underfloor-heating applications. Select the fixing method to suit the supporting floor.



Thermasheet floor-fixed boards installed over a prepared floor

5.2 INSTALLATION REQUIREMENTS

1

CONTINUOUS SUPPORT

Floor-fixed boards must be continuously supported by a stable substrate unless specifically engineered otherwise.

2

BED BOARDS INTO SUITABLE ADHESIVE

For concrete floors, use a suitable tile adhesive spread with a notched trowel. For timber or cement-sheet floors, use ThermoSheet MSP Sealant together with TS-Fixings (washers and screws).

3

UNDERFLOOR HEATING

Install the heating system over the cementitious face in accordance with the heating and tile-adhesive manufacturers' instructions.

4

SLOPED BOARDS

Sloped boards are also available with a 1:80 fall for balconies, wet rooms and alfresco areas where fall is required before tiling.

IMPORTANT

Ensure board joints and fixings are detailed to suit the nominated waterproofing and finished-floor system.



6 THERMASHEET WALL

6.1 OVERVIEW

A simple solution for creating both half- and full-height shower walls, with or without a built-in niche. Thermasheet Wall is lightweight, waterproof and quick to install, providing a straight, stable substrate ready for waterproofing and finishing.



Thermasheet Wall with built-in niche and mounting brackets

KEY POINTS

- Half-height and full-height shower-wall options
- Available with or without a built-in niche
- Various sizes available
- Supplied with wall and floor mounting brackets
- 100 mm lightweight, waterproof construction

6.2 SUPPLIED COMPONENTS

WALL PANEL

Thermasheet Wall panel in the selected size, with or without a niche.

MOUNTING BRACKETS

Wall and floor fixing brackets supplied for secure, plumb installation.

FIXINGS

Spiral screws supplied to secure the wall to the mounting brackets.

6.3 INSTALLATION STEPS

1

CUT TO SIZE

Cut the Thermasheet Wall to the required size using a suitable circular saw or hand saw.

2

SET THE BRACKETS

Fix the wall and floor brackets in the desired position, ensuring they are level and plumb. In framed homes, align the wall bracket with a wall stud.

3

SEAL AND POSITION

Apply MS polymer sealant to the base and sides of the brackets, then slide the wall into position. Place any exposed cut edge against the wall or floor.

4

SECURE THE WALL

Secure the wall to the supplied brackets with the spiral screws at regular intervals.

READY FOR THE NEXT STAGE

Once installed, the floor may be screeded and waterproofing may commence as soon as the sealant is dry.



7

JOINTS, SEALING AND WATERPROOFING

KEY POINTS

Use ThermaSheet MSP Sealant at board joints • Select joint reinforcement to suit the substrate and finish • Treat corners, penetrations and changes of plane

7.1 THERMASHEET MSP SEALANT



Joint treatment to a ThermaSheet-lined shower area

MASONRY WALLS — TILED FINISH

In general, boards fixed to masonry walls with minimal expected movement and a tiled finish require only the joints to be filled and flushed with ThermaSheet MSP Sealant.

FRAMED WALLS / RENDER / MICROCEMENT

For framed walls, or where a render or microcement finish is to be applied, also use 50 mm fibreglass reinforcing tape over the joints.

JUNCTION SEAL

All junctions between walls and floors should be sealed with an appropriate bond-breaker tape or sealing band in accordance with the NCC and AS 3740.

7.2 JOINT SEQUENCE

- 1 Ensure joint faces are clean and dry.
- 2 Apply a continuous bead of ThermaSheet MSP Sealant to the joint or interface.
- 3 Bring boards together, then remove or tool off excess sealant.
- 4 Where required, reinforce joints with compatible 50 mm fibreglass tape.
- 5 Treat screw and washer heads, penetrations and changes of plane as required.
- 6 Apply a compliant waterproofing membrane where required by AS 3740 and the project specification.

8

CURVED BOARDS – THERMASHEET FLEX & ULTRAFLEX

8.1 OVERVIEW

Thermasheet Flex and UltraFlex are pre-scored curved boards designed for creating curved shower walls, columns, ceilings and architectural features. The boards are waterproof, lightweight and easy to install, providing a stable substrate for tiles, microcement, render and other decorative finishes.

Thermasheet Flex suits standard curved applications, while Thermasheet UltraFlex is our most flexible board for tighter radius curves and sculptural designs.

KEY POINTS

- Pre-scored for easy bending on site
- Suitable for walls, ceilings and custom features
- Waterproof and lightweight
- Can be tiled, rendered or finished with microcement
- Use Thermasheet MSP Sealant at all joints
- Fix using screws with large washers or adhesive where appropriate

8.2 INSTALLATION STEPS

1 PREPARE SUBSTRATE

Ensure the frame or substrate is clean, dry and properly set out to the required curve.

2 POSITION AND BEND BOARD

Offer the Thermasheet Flex or UltraFlex board to the frame and carefully bend to the required radius. The pre-scored cuts allow the board to curve smoothly.

3 APPLY SEALANT

Apply a continuous bead of Thermasheet MSP Sealant to all framing members and at board-to-board joints.

4 FIX BOARD

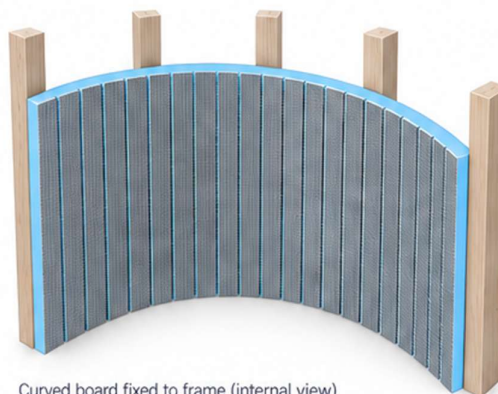
Fix using corrosion-resistant screws with large washers at appropriate centres (refer to Section 5 – Stud Spacing Guide), or use adhesive where suitable. Ensure the board is fully supported along the curve.

5 JOIN ADDITIONAL BOARDS

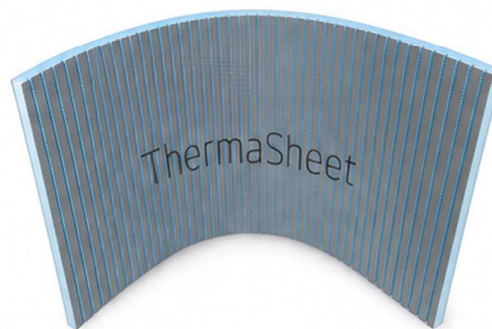
Where multiple boards are used, fill all joints with Thermasheet MSP Sealant and embed reinforcing tape. Allow to cure.

6 FINISH

Once cured, the curved surface is ready for tiles, render, microcement or other decorative finishes. Use suitable flexible adhesives and follow manufacturer guidelines.



Curved board fixed to frame (internal view)



Thermasheet Flex curved board (external view)



TIPS

- For tighter radius curves use Thermasheet UltraFlex.
- Maintain continuous support behind the board.
- For full-height curved walls, fix boards vertically.
- Fill joints with Thermasheet MSP Sealant and reinforcing tape.
- Allow for movement joints where required.
- Complete wet-area waterproofing before tiling or finishing.



ACHIEVABLE RADIUS

Product	Minimum radius
Thermasheet Flex30	400 mm
Thermasheet Flex20	300 mm
Thermasheet UltraFlex20	80 mm
Thermasheet UltraFlex10	50 mm

Guide only. achievable radius depends on framing, board orientation and installation conditions.



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9

EXTERNAL FACADES & LANDSCAPING

KEY POINTS Use corrosion-resistant support and fixings • Seal joints and exposed edges • Fully encapsulate with an approved exterior finish • Provide movement joints, flashings and drainage detailing

9.1 SUITABLE APPLICATIONS



Thermasheet may be used as a lightweight substrate in selected external applications including soffits, bulkheads, facade features, columns and other architectural forms, subject to the project design, building classification, wind loading and finish system.

9.2 EXTERNAL INSTALLATION PRINCIPLES

- Provide a structurally adequate, corrosion-resistant support system.
- Use fasteners and washers suitable for the exposure category and substrate.
- Seal all board joints, penetrations and exposed cut edges with Thermasheet MSP Sealant as detailed.
- Fully encapsulate the exposed board face with a compatible reinforced render, microcement or approved exterior coating/tile system.
- For rendered facades, use full-surface reinforcement mesh where required by the render-system manufacturer; provide additional diagonal reinforcement at openings and stress points.
- Maintain required control/movement joints through the board and finish system.
- Detail flashings, heads, sills and penetrations so water is shed from the building envelope rather than relying on sealant alone.

EXTERNAL DESIGN RESPONSIBILITY External walls and soffits can be subject to wind, fire, drainage, condensation and durability requirements that are not determined by this manual alone. Project-specific engineering, NCC assessment and finish-system approval may be required, particularly for multi-residential/commercial buildings or where non-combustible construction is required.

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10 FINISHES, MOVEMENT AND SERVICE CONDITIONS

KEY POINTS Select finish systems compatible with cementitious substrates • Consider finish weight and movement • Maintain movement joints • Observe fire and service-condition limitations

10.1 COMPATIBLE FINISHES

COMPATIBLE FINISHES

- Ceramic and porcelain tiles
- Natural stone – subject to load/adhesive requirements
- Microcement and resin systems
- Decorative render and textured exterior systems
- Compatible architectural coatings

KEY RULES

- Use adhesives suitable for cementitious substrates and the selected finish
- Do not bridge structural movement joints
- Protect perimeter/movement joints in tiled and rendered finishes as required
- Finish weight and substrate stiffness must remain within project design limits

10.2 THERMAL MOVEMENT

Thermasheet's XPS core is dimensionally stable in normal service, but all buildings and finishes move. Long runs, exterior applications, dark finishes and underfloor-heated areas require appropriate movement-joint design. Follow the tile, render, waterproofing and structural designer's movement-joint requirements.

10.3 FIRE PERFORMANCE

Thermasheet incorporates a fire-retardant XPS core. The current Thermasheet fire-hazard test to AS/NZS 1530.3 achieved indices of 0 / 0 / 0 / 6. These results describe the hazard properties tested; they are not an AS 1530.1 non-combustibility classification. Do not specify Thermasheet where non-combustible construction is required unless the project has an appropriate compliant design pathway.

10.4 SAFETY

- Use suitable eye, hand and respiratory protection during cutting and drilling.
- Control dust at source where practical.
- Avoid solvents or chemicals that may attack XPS.
- Store boards flat, dry and protected from excessive heat, direct sunlight and physical damage before installation.



11 QUICK-REFERENCE INSTALLATION CHECKLIST

FINAL CHECK Use this page as the installer handover check before tiling, rendering or applying the final finish.

11.1 FINAL CHECK

CHECK	REQUIREMENT
☐ Substrate	Sound, dry, clean, stable and correctly framed/supported.
☐ Set-out	Joints planned; edges supported; penetrations located before fixing.
☐ Cutting	Clean cuts, dry fit completed, exposed edges treated where required.
☐ Fixing	Corrosion-resistant screws/washers; approx. 200 mm edge / 300 mm field unless project detail requires otherwise.
☐ Sealant	Thermasheet MSP Sealant used at nominated joints, corners, penetrations and interfaces.
☐ Joint reinforcement	Fibreglass mesh/tape and compatible cementitious or waterproofing treatment completed.
☐ Wet areas	Waterproofing completed to the applicable wet-area design and AS 3740 requirements.
☐ Curves	Correct Flex/UltraFlex product selected; radius within product limits; support frame follows the curve.
☐ External	Project-specific support, fixing, edge sealing, reinforced finish, flashings and movement joints confirmed.
☐ Finish	Tile/render/microcement/coating system approved for the substrate and service conditions.

11.2 TECHNICAL SUPPORT

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DOCUMENT STATUS Simplified installation guide – September 2026. This manual is intended to provide practical installation guidance and does not replace project specifications, structural engineering, waterproofing design, finish-system instructions, the NCC or applicable Australian Standards. Product dimensions and accessories may change; confirm current product data before ordering or installation.