the ultimate
tile backer board

Quantum

Product Overview Guide
Tile Backer Board & Accessories

BASEBOARD
waterproofing | dry-lining | insulation

A QUANTUM PRODUCT

Tel: +44 (0)28 7131 2064

Baseboard

Product Range
Introduction

Baseboard is a complete waterproof, tile backing board and insulating system for wet rooms, showers and bathrooms.

The system is used in preference over against chipboard, ply or plasterboard.

Benefits -

Waterproof

Totally impervious to moisture, providing a stable ready to tile substrate.

Insulating

High thermal insulation properties ensuring minimal heat transfer to adjacent surfaces.

Lightweight

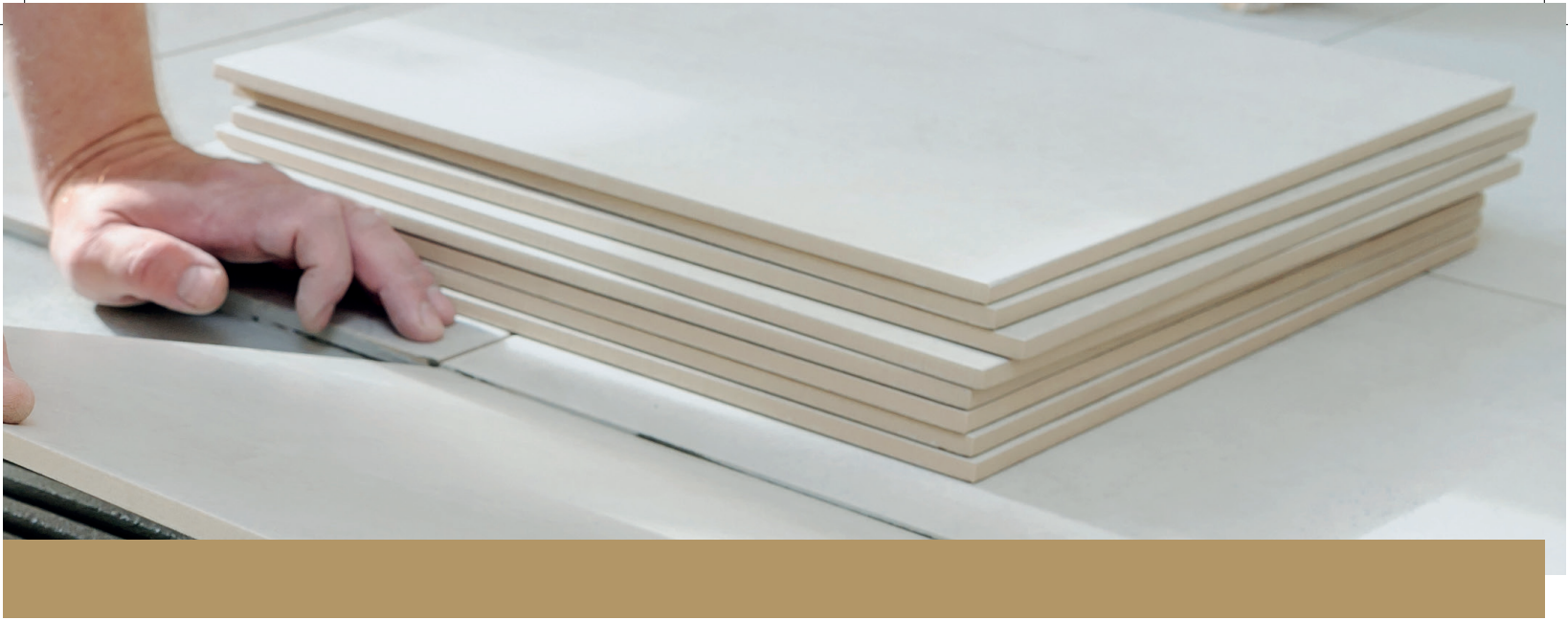No extra load requirements. Easy to handle and cut.

Versatile

Suitable for use on timber and metal studworks, concrete and timber floors.
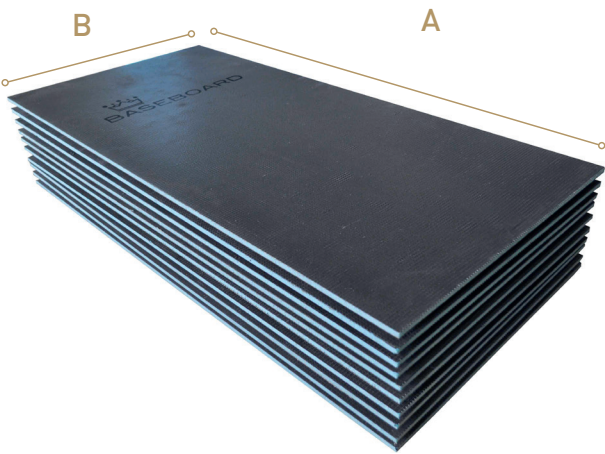
Underfloor Heating

Suitable for use beneath electrical underfloor heating.

Baseboard Panels

Product Overview
Tile Backer Board

Cement coated building board - Used for creating a waterproof surface suitable for fixing wall and floor tiles.

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Manufactured to the highest specification, Baseboard is the benchmark for stable, impervious and durable tile backer boards. There are many areas of application including uses in showers, steam rooms and swimming pools.

Versatile - Suitable for use on metal and timber stud work or on existing floors and walls to cover unstable and uneven surfaces.

Baseboard Panels -

Description	Length A	Width B	Thickness (mm)	Product Code	Unit Qty
Panel	1200mm	600	6	BB1005	10 pcs / Carton
Panel	1200mm	600	10	BB1010	10 pcs / Carton
Panel	1200mm	600	12	BB1015	10 pcs / Carton
Panel	1200mm	600	12	BB1020	10 pcs / Carton
Panels	2500mm	600	10	BB1030*	10 pcs / Carton
Panels	2500mm	600	12	BB1035*	10 pcs / Carton

*Carriage charge will be applied to products BB1030 and BB1035
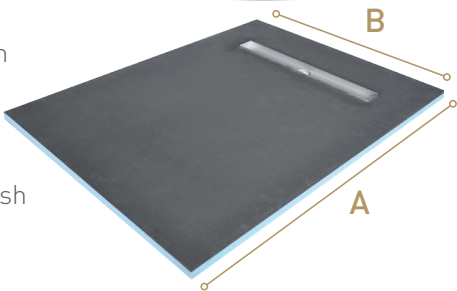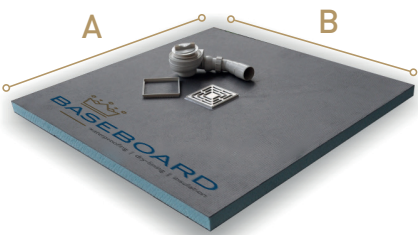
Baseboard Trays

Product Overview
Preformed Shower Trays

Cement coated preformed shower trays - Used for creating a walk-in shower area.

The Baseboard Shower Tray range incorporates a wide variety of shapes and sizes to create a level access walk-in shower area.

Each tray has a preformed fall to the drain location.

Coated with cement, and strengthened with fibreglass mesh - Baseboard Shower Trays are ready for the application of tiles. Compatible with electric underfloor heating.

Baseboard Shower Trays -

Description	Length A	Width B	Thickness (mm)	Product Code	Drain Position
Rectangular Tray	800mm	1200	20	BB2105	Offset
Rectangular Tray	800mm	1500	20	BB2110	Offset
Rectangular Tray	900mm	1200	20	BB2115	Centre
Rectangular Tray	900mm	1200	20	BB2120	Offset
Rectangular Tray	1200mm	800	20	BB2125	Offset
Rectangular Tray	1500mm	900	20	BB2130	Offset
Rectangular Tray	1800mm	9000	20	BB2135	Offset
Square Tray	800mm	800	20	BB2205	Centre
Square Tray	900mm	900	20	BB2210	Centre
Square Tray	1000mm	1000	20	BB2215	Centre
Square Tray	1200mm	1200	20	BB2220	Centre
Channel Drain Tray	900mm	900	30	BB2405	Offset
Channel Drain Tray	900mm	1200	30	BB2410	Offset
Channel Drain Tray	900mm	1500	30	BB2415	Offset
Shower Drain				BB2505	

Baseboard Tanking Kit

Product Overview
Waterproof Tanking System

A complete waterproofing system for the protection of substrates in wet areas. Specifically designed for use beneath ceramic, porcelain, natural stone and mosaic tiles.

Coverage of 10sqm.

Ideal for waterproofing internal walls and floors in installations subject to intermittent and frequent wetting such as domestic and commercial showers, wet rooms and saunas. Easy to use system comprised of paint on paste and tanking tape. Totally waterproof and flexible to cope with movement and vibration.

Kit Contents -

• 5kg - Waterproof Membrane
• 5m - Waterproofing Jointing Tape
• Instruction Guide

Baseboard Tanking Kit -

Description	Coverage (sqm)	Product Code
Waterproofing Kit	10	BB3105

Baseboard Membrane

Product Overview
Waterproof Tanking Paste

Tanking Membrane for waterproofing substrates in wet areas.

Liquid paint on paste used for waterproofing absorbent substrates in wet areas.
Designed for use before laying ceramic, porcelain, natural stone and mosaic tiles.
Fast Drying - Ready to tile on in two hours. Distinctive grey colour to show areas covered.

Waterproof Tanking Paste -

Description	Size (kg)	Product Code
Membrane	5	BB3110

Baseboard Jointing Tape

Product Overview
Waterproofing Jointing Tape

Waterproofing jointing tape that creates a waterproof seal between joints.

For use in conjunction with tanking paste. Used to create a permanent waterproof seal around joints in shower and bath areas.

Waterproofing Jointing Tape-

Description	Length (m)	Product Code
Waterproofing Tape	5	DBASA5
Waterproofing Tape	10	DBSA10

Baseboard Fixings

Product Overview
Fixings and Accessories

Specially designed fixings for the installation of Baseboard Products.

Baseboard Dowel Fixings -
For fixing Baseboard to masonry walls or tiled surfaces. Ideal for use in wet areas.

Use 8 dowels per 1200x600mm board.

Description	Length A	Product Code	Box Qty
Stainless Steel	50mm	BB3205	100
Stainless Steel	90mm	BB3210	100
Stainless Steel	110mm	BB3215	100

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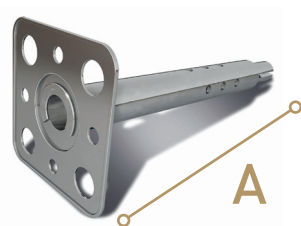
Baseboard Screws -

Sharp point, zinc plated drywall screws to be used with washers for mechanically fixing Baseboard to walls and floors.

Use 16 screws per 1200x600mm board.

Description	Length A	Product Code	Box Qty
Drywall Screws	25mm	BB3305	1000
Drywall Screws	32mm	BB3310	1000
Drywall Screws	45mm	BB3315	1000
Drywall Screws	50mm	BB3320	1000
Drywall Screws	65mm	BB3325	500
Drywall Screws	75mm	BB3330	500

A

Baseboard Washers -

For use in conjunction with fixing screws when securing Baseboard to timber walls and floors.

Description	Diameter	Product Code	Box Qty
Stainless Steel	35mm	MIAD35	100

Fixing Baseboard Panels to Stud Walls

Ensure stud work is stable and plumb

Note: For stud wall application, use minimum 10mm thick Baseboard - refer to table on the following page for appropriate board thickness depending on stud spacing. While this fixing guide features timber studwork, the same instructions apply when using Baseboard with metal studwork.

1. Fix the Baseboard Panel directly to studwork.

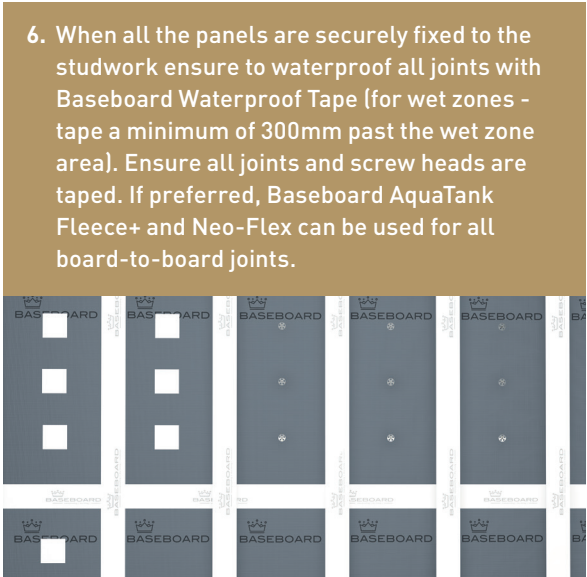
3. Fix using screws and washers at 300mm centres (vertical spacing) into each upright.

2. Ensure all board edges are supported with a vertical or noggin behind. Always make cuts before fixing.
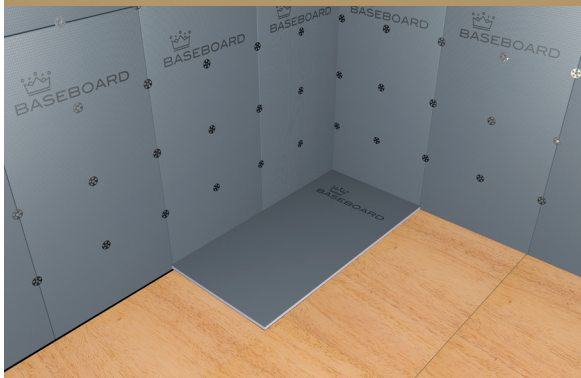

4. Ensure all panel edges are tightly abutted.

5. Pro Tip - Washers can be shared across panel edges.

6. When all the panels are securely fixed to the studwork ensure to waterproof all joints with Baseboard Waterproof Tape (for wet zones - tape a minimum of 300mm past the wet zone area). Ensure all joints and screw heads are taped. If preferred, Baseboard AquaTank Fleece+ and Neo-Flex can be used for all board-to-board joints.

Recommended Baseboard Thicknesses

Stud spacing up to:	Recommended minimum Baseboard thickness
300mm	10mm
400mm	12.5mm
600mm	20mm

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Fixing Baseboard Panels to Timber Flooring-
Using a Solid Bed of Tile Adhesive

Ensure that the existing floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.

1. Prime the floor using AquaTank Pro-Tile Primer before applying adhesive or Baseboard Panels.
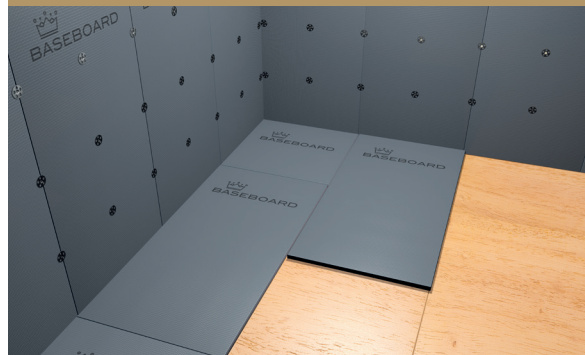

2. Select a trowel with an appropriate notch size for the application.

3. When the adhesive is applied, place the Baseboard Panels directly onto adhesive layer.

4. Baseboard Panels must be firmly butted together.
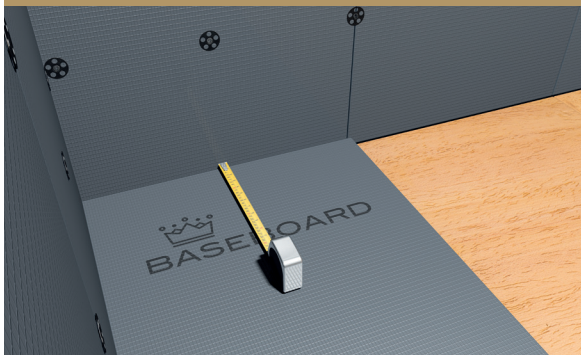
5. Tamp panels down to ensure that all the panel makes full contact with the adhesive.
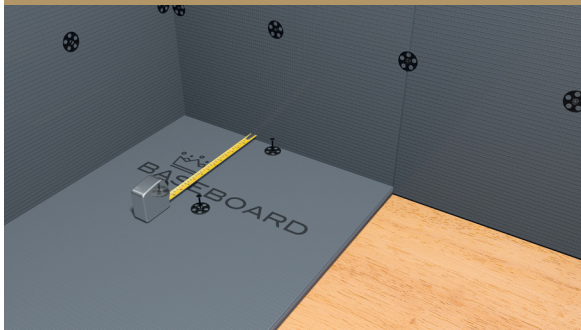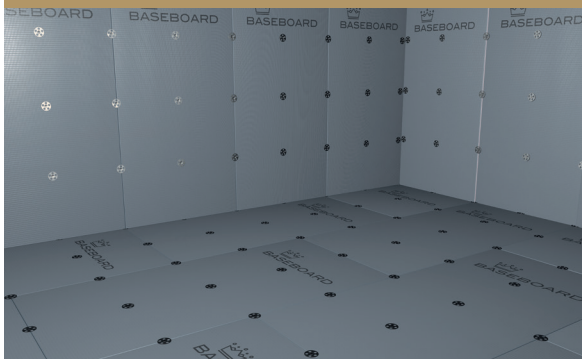

6. Ensure each panel is level with the adjacent panel.
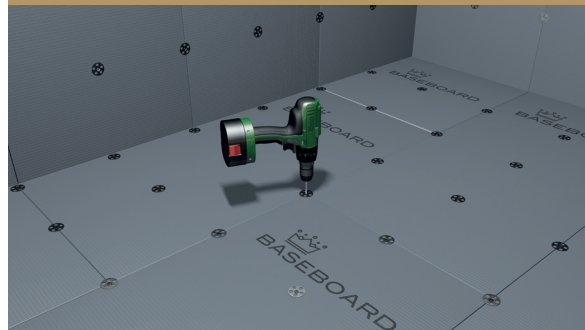
7. Baseboard Panels must be laid in brick bond pattern, with staggered joints.
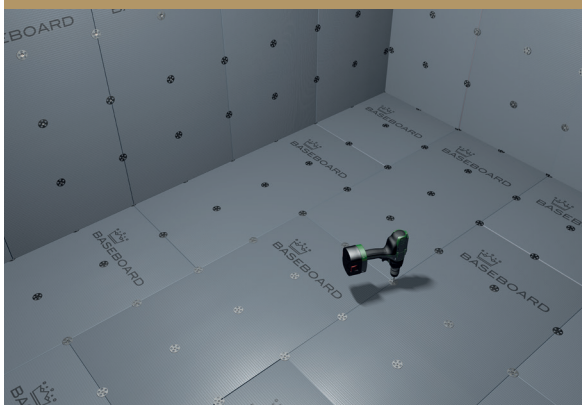
8. For this method, you can use offcuts to help create a brick-bond pattern - however, as a guide, do not use Baseboard offcuts smaller than 200x200mm.
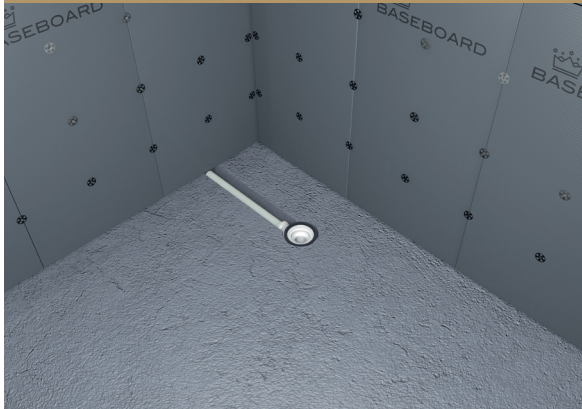

9. Once the adhesive is dry ensure to waterproof all joints with Baseboard Waterproof Tape (for wet zones - tape a minimum of 300mm past the wet zone area). Ensure all joints and screw heads are taped. If preferred, Baseboard AquaTank Fleece+ and Neo-Flex can be used for all board-to-board joints.
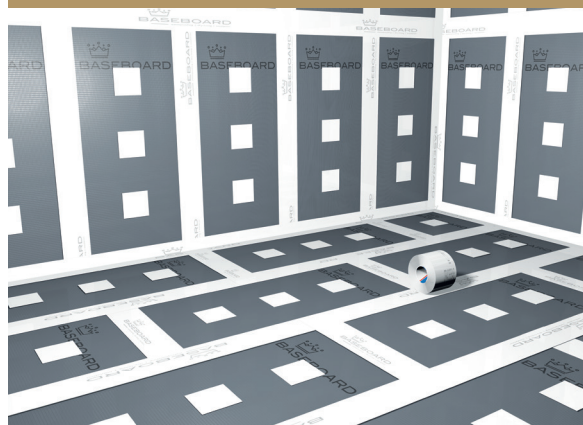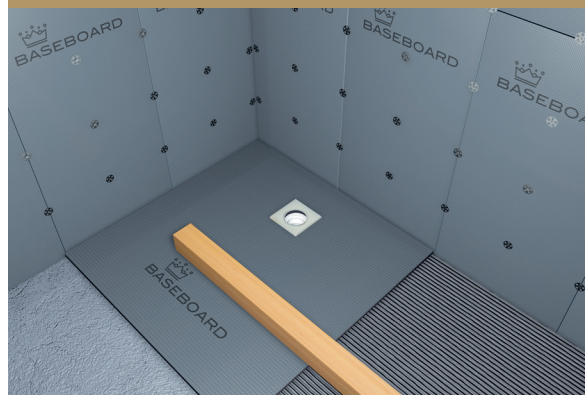
Fixing a Baseboard Shower-Tray to a Concrete Floor-Using a Solid Bed of Tile Adhesive

Ensure that the floor surface is clean and free from any loose materials.

1. Ensure waste pipe is suitably located for fitting of the Baseboard Shower-Tray. Solvent weld the trap into the waste pipe.
Pro Tip – Check pipe is suitable for solvent weld and check connections are watertight before final installation of the Baseboard Shower-Tray.

2. Ensuring the seal on the top of the tap is level with the surrounding subfloor, and the centre of the trap corresponds with the centre of the outlet in the tray, back fill around the waste pipe (using tile adhesive is ideal) and allow to set. Prime the floor using AquaTank Pro - Tile Primer before applying adhesive or Baseboard. **Pro Tip** - The correct notch size for combing out the adhesive bed is at least double the maximum undulation of the floor, measured under a 1m straight edge.
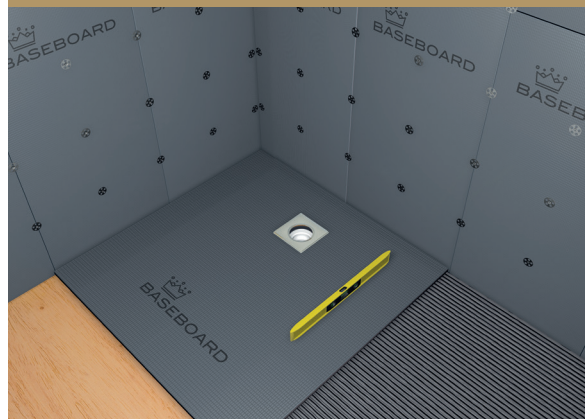

3. Carefully place the Baseboard Shower-Tray directly onto the adhesive layer, ensuring the alignment of the outlet in the tray with the trap. Tamp the tray down so it makes full contact with the adhesive.


4. Check the installed Baseboard Shower-Tray is level on leading edges.

5. Insert the threaded collar to join the Baseboard Shower-Tray to the trap. **Pro Tip** - The protection cap can be used to screw down the threaded collar by hand, and can be inserted to prevent dirt and debris entering the drain body until installation is complete. **Pro Tip** - To create a level floor surface meeting the edge of the Baseboard Shower-Tray, use the same thickness of Baseboard Panel.
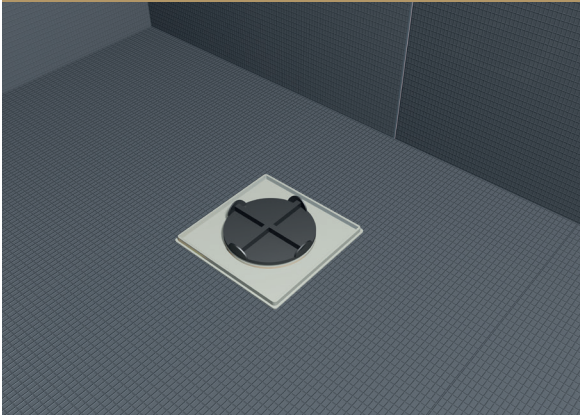
6. Continue fitting Baseboard Panels to the remainder of the floor, ensuring all the boards are tamped down and level. Once adhesive is dry, insert bucket and dip tube. Ensure to waterproof all joints with Baseboard Waterproof Tape (for wet zones - tape a minimum of 300mm past the wet zone area). Ensure all joints and screw heads are taped. If preferred, Baseboard AquaTank Fleece+ and Neo-Flex can be used for all board-to-board joints.

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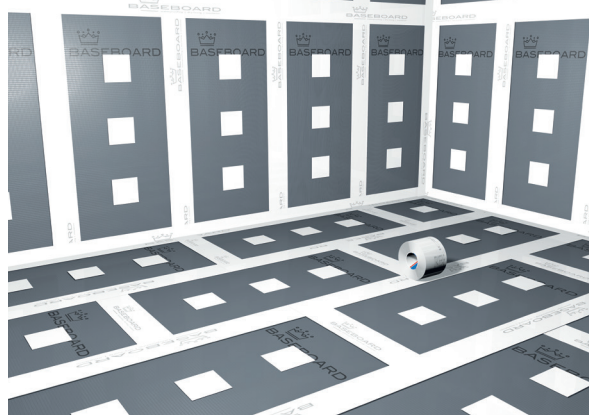
Fixing a Baseboard Shower-Tray at Joist Level

To fit Baseboard Shower-Tray at joist level, flooring grade plywood, a minimum of 18mm thick must be laid between joists, flush with the joist tops. This must be fixed to battens that are screwed securely to the sides of the joists.

1. Ensure waste pipe is suitably located for fitting of the Baseboard Shower-Tray.

2. Solvent weld the trap into the waste pipe. **Pro Tip** – Check pipe is suitable for solvent weld and check connections are watertight before final installation of the Baseboard Shower-Tray.

3. Infill battens must be securely fixed to the joists, down the same amount as the thickness as the infill wood. **Pro Tip** – For extra rigidity of battens consider also using wood glue.

4. All plywood infill pieces must be fixed to the battens. **Pro Tip** – Mark the location of pipes and wires on joists before fixing plywood inlays.

5. Carefully position the Baseboard Shower-Tray, ensuring alignment of the outlet in the tray with the trap. Apply a thin layer of adhesive and place the shower tray in position. Insert the threaded collar to join the Shower-Tray to the trap.

6. **Pro Tip** - The protection cap can be used to screw down the threaded collar by hand, and can be inserted to prevent dirt and debris entering the drain body until installation is complete.
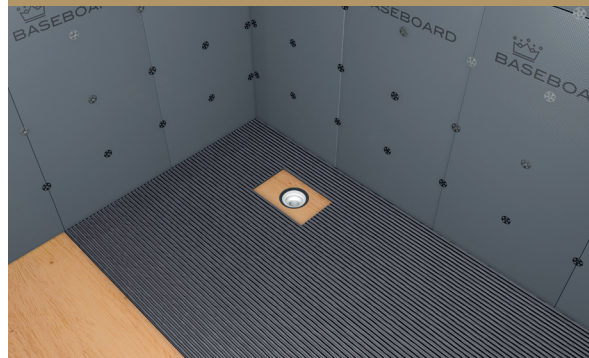
7. Fix the Baseboard Shower-Tray in place. **Pro Tip** - To create a level floor surface meeting the edge of the Baseboard Shower-Tray, use the same thickness of Baseboard Panel. Conti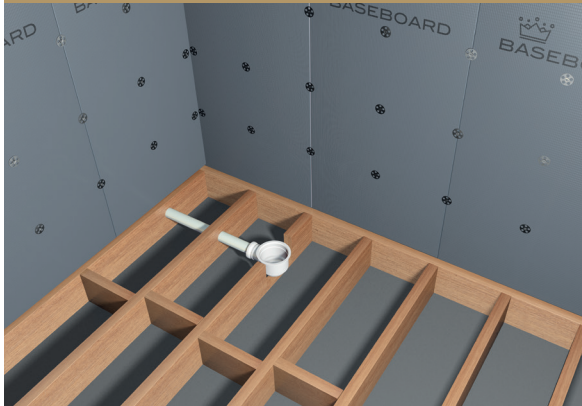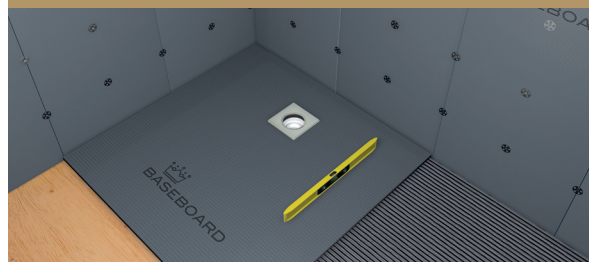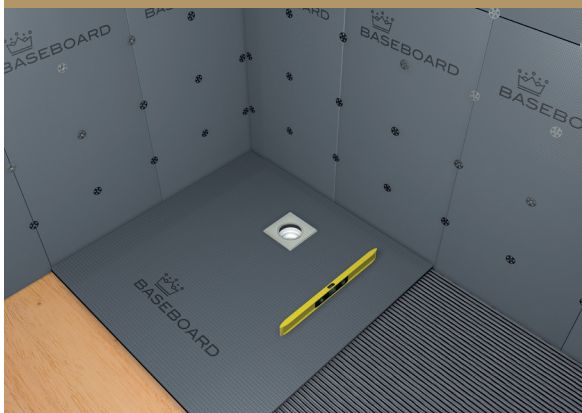nue fitting Baseboard Panel to the remainder of the floor, fixing with screws and washers at 300mm centres, starting in the centre of the panels first.

8. Once Baseboard Shower-Tray and remaining floor panels are in place, waterproof all joints with Baseboard Waterproof Tape (for wet zones - tape a minimum of 300mm past the wet zone area). Ensure all joints and screw heads are taped. If preferred, Baseboard AquaTank Fleece+ and Neo-Flex can be used for all board-to-board joints.
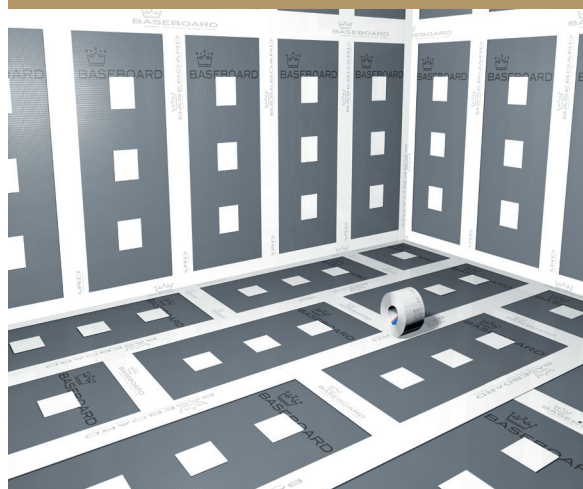
Baseboard

Technical Properties
Tile Backer Board

Baseboard is a complete waterproof, tile backing board and insulating system for wet rooms, showers and bathrooms.

The system is used in preference over against chipboard, ply or plasterboard.

Benefits -

✓ Waterproof
Totally impervious to moisture, providing a stable ready to tile substrate.

✓ Insulating
High thermal insulation properties ensuring minimal heat transfer to adjacent surfaces.

✓ Lightweight
No extra load requirements. Easy to handle and cut.

✓ Versatile
Suitable for use on timber and metal studworks, concrete and timber floors.

✓ Underfloor Heating
Suitable for use beneath electrical underfloor heating.

Baseboard Panels

Technical Properties
Tile Backer Board

Baseboard boards are made of high-performance waterproof extruded polystyrene. It has a 1mm coating on either side comprising a glass fibre mesh embedded in a polymer-cement motar.

Properties of Foam Component

Property	Assessed to	Rating
Density	DIN 53420	36 ± 2 kg/m3
Thermal Conductivity (initial)	DIN 52612	0.034 Watt/mK
Thermal Conductivity (>5yrs)	ASTM C518	0.036 Watt/mK
Compressive Strength (10% deflection)	DIN 53421	Minimum of 0.25N/mm2
Flexural Strength	ASTM C203	0.30 ± 0.02 MPa
Water Absorption (2-day immersion)	ISO2896	0.2% by volume
Water Absorption (Capillary)	DIN 53428	Zero
Coefficient of linear expansion	N/A	70 x 10-6 K-1
Water Vapour Diffusion Resistivity (µ)	DIN 52615	110 - 225 µ
Water Vapour Permeability	ASTM E-96	0.028 ng/Pa.m.s
EU controlled substances content	N/A	None

Baseboard Panels

Technical Properties
Tile Backer Board

Properties of Tile Backer Board

Property	Assessed to	Rating
Thermal Conductivity (> 5yrs)	EN 12667:2001	0.033 - 0.036 Watt/mK
Compressive Strength (10% deflection)	EN 826:1996	Minimum of 0.25N/mm2
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
Resistance to body Impact	ETAG 003	3 x 120N/m
Bending Stiffness, E(20mm / 30mm)	EN 12089	601KNmm2 / 1285 kN/mm 2
Coefficient of linear expansion	N/A	30 x 10-6 K-1
Flammability	EN 13501-1	Class E
Impact Sound Reduction	BS-ISO140-8	dLw = 21
Shear Bond Strength	EN 1448	3.32kg/cm2
EU controlled substances content	N/A	None
Working Temp Range	N/A	-50 to +80c

Baseboard Trays

Technical Properties
Tile Backer Board

Board Weights and Dimensions

		600x1250mm	600x2500mm
Thickness	Density (kg/m3)	Weight (kg)	Weight (kg)
6mm	425	1.87	N/a
12mm	297	2.18	4.36
20mm	167	2.45	4.9
30mm	121	2.68	5.35
50mm	86	3.15	6.3

Dimensional tolerances for standard boards: Thickness +/- 2mm, Width+/- 2mm, Length +/- 2mm

The boards should be stored dry and flat. Slight bowing caused by incorrect storage or transport, for example, is not permanent and does not represent a technical defect. Slight curving can be rectifiedthrough storing the boards flat.

Thermal Insulation Values

Thickness	Net thickness (xps)	R-Value (m2.k)/W	U-Value W/m2 x K	AD Rated Value
6mm	4	0.11	3.63	0.0378
10mm	8	0.21	2.62	0.0378
12mm	10	0.28	2.23	0.0378
20mm	18	0.49	1.55	0.0378
30mm	28	0.74	1.10	0.0378
50mm	48	1.27	0.69	0.0378

Baseboard boards 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 cementatious 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.

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