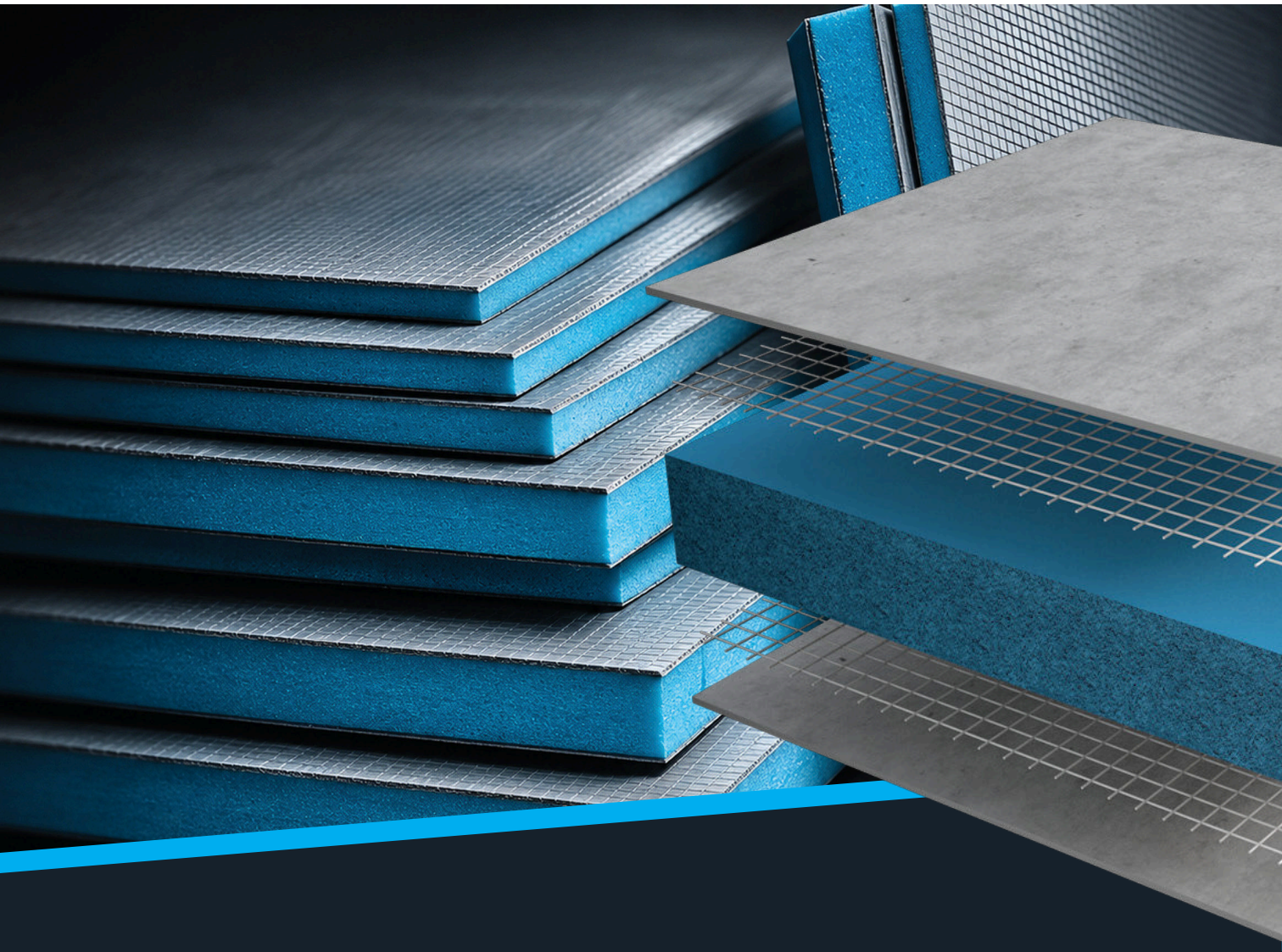
INSUTILE®

A Product by INSUTECH



LIGHTWEIGHT

CONSTRUCTION BOARDS





A PRODUCT BY INSUTECH

Insutech has manufactured construction materials since 1987. Its range covers bitumen membranes, bituminous emulsions, XPS and EPS, produced across five facilities with in-house quality-control and R&D laboratories and exported to more than 105 countries.

Insutile® is Insutech's range of lightweight construction boards. Each board has a closed-cell, waterproof XPS core faced on both sides with mesh-reinforced cementitious mortar and is supplied ready to tile. All boards are manufactured in-house and checked against specification before dispatch.

1987
OPERATING SINCE

105+
EXPORT COUNTRIES

5
PRODUCTION FACILITIES

500+
PROJECTS COMPLETED

RAW MATERIALS

Polystyrene, mortar and mesh are tested against specification before production.

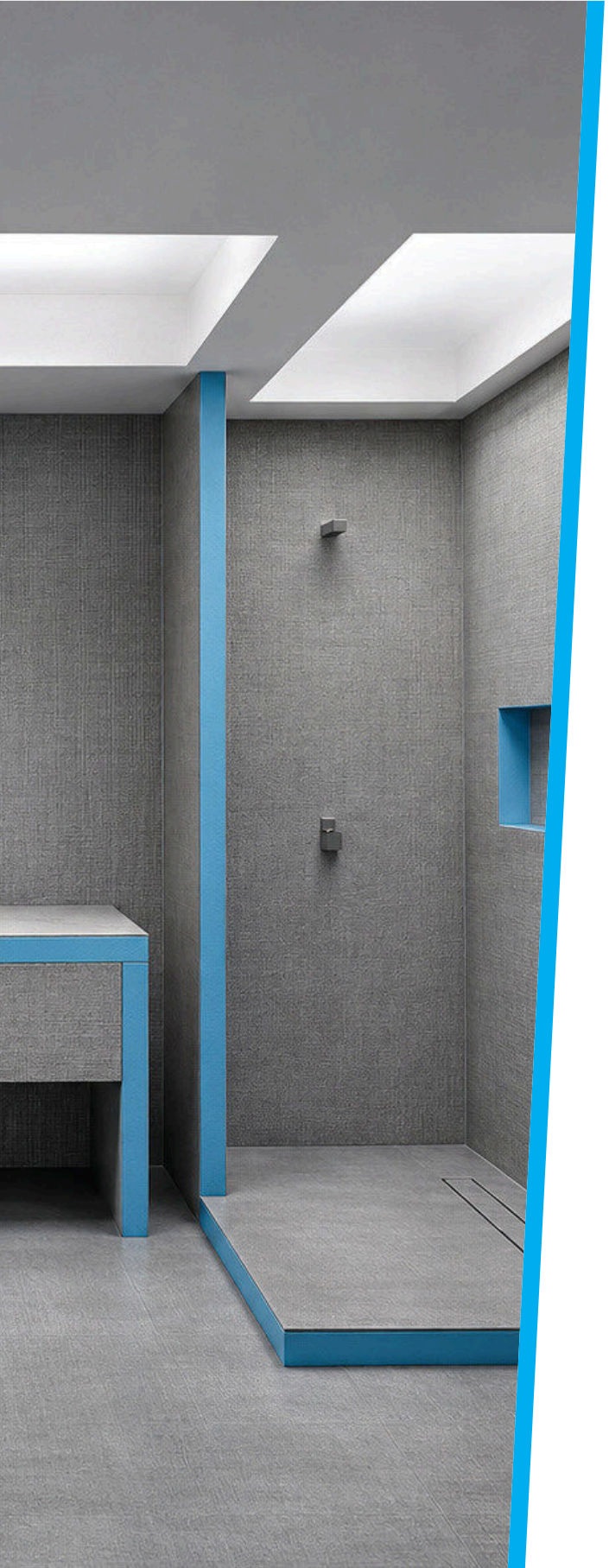
BATCH CONTROL

Every finished board is checked by the in-house quality-control laboratory.

SYSTEM WARRANTY

Boards and accessories installed together as one system are covered by the Insutech system warranty.

ISO 9001



THE INSUTILE® SYSTEM

One system for waterproof, insulated tiling

The range comprises flat boards, bendable panels, pre-formed angles, sloped shower bases, pre-tiled panels and matching accessories. The components are designed to be used together and to replace cement board and sand-and-cement build-ups in wet areas.

Waterproof core

≤ 0.1 % WATER ABSORPTION

λ ≤ 0.034 W/mK

THERMAL CONDUCTIVITY

7× lighter

THAN CEMENT BOARD

Tile-ready

COMPATIBLE WITH C2 ADHESIVES

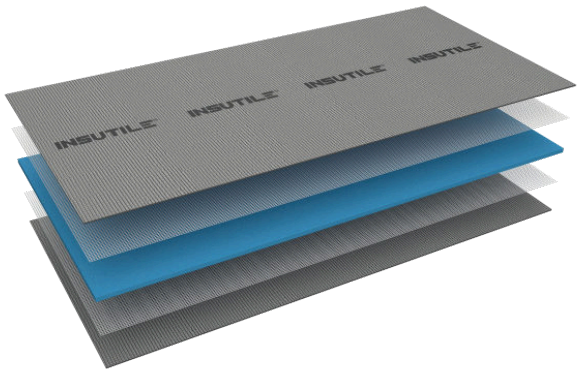
COMPARED WITH CONVENTIONAL SUBSTRATES

	INSUTILE® BUILD BOARD	CEMENT BOARD	PLAIN XPS	GYPSUM BOARD
Waterproof core	✓	×	✓	×
Ready to tile, no priming	✓	×	×	×
Thermal insulator	✓	×	✓	×
Lightweight	✓	×	✓	×
Durable	✓	✓	×	✓
Easy to cut on site	✓	×	✓	✓

Manufactured under an ISO 9001 quality management system. CE marked.

BOARD CONSTRUCTION

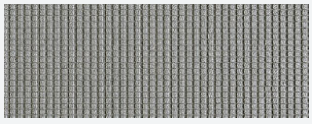
Three layers, both faces



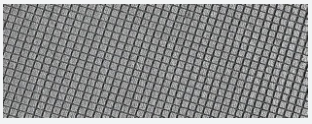
1 **Cement layer**
Polymer-modified cementitious mortar. Bonds directly with standard tile adhesives without priming.

2 **Fibreglass mesh**
Alkali-resistant reinforcement embedded in the coating on both faces.

3 **XPS foam core**
Closed-cell extruded polystyrene. Waterproof and thermally insulating.



SURFACE FINISH
Regular Coat: smooth and easy to cut



SURFACE FINISH
Dual Coat: patterned, for added strength

TWO STANDARD FORMATS

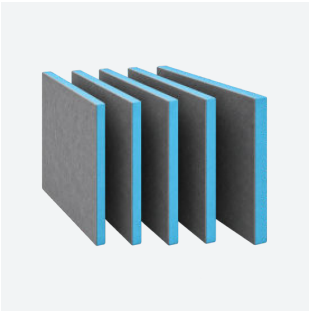
SMALL 600 × 1200 mm

LARGE 600 × 2400 mm

CUSTOM SIZES TO ORDER

The Insutile® range

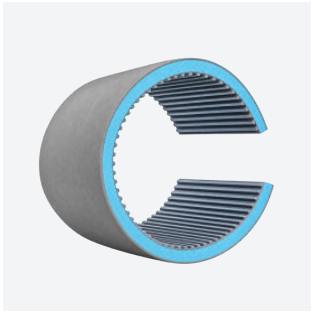
Lightweight construction boards and matching accessories, supplied as one compatible system by a single manufacturer.



01

Insutile® Build Board

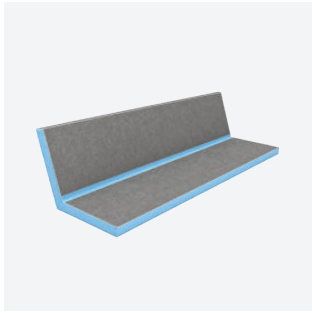
Walls, floors and wet areas



02

Insutile® Flex Board

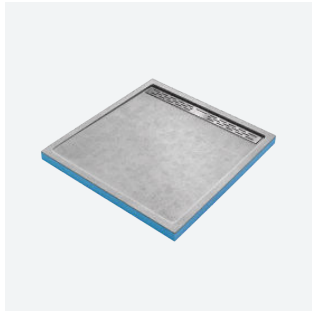
Curves, columns and arches



03

Insutile® Angle Board

Corners and pipe boxing



04

Insutile® Shower Underlay

Pre-sloped shower trays



05

Insutile® Easy Board

Pre-tiled insulation panels



06

Insutile® Trays and Niches

Niches, shelves and seats



07

Insutile® Accessories

Sealants, tapes and fixings

Which thickness for which application

6–12.5 mm
LININGS & SURFACES

Floor levelling, wall cladding, window forming.

20–30 mm
BOXING & PANELS

Toilet boxing, bathtub panels, insulation.

40–80 mm
COUNTERS & PARTITIONS

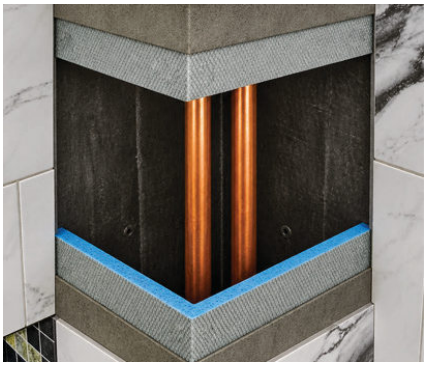
Counters, furniture, partition walls.

APPLICATION	6	10	12.5	20	30	40	50	60	80
Floor levelling & covering	■	■	■	■	■	■	■	■	■
Wall cladding	■	■	■	■	■	■	■	■	■
Window forming	·	·	■	·	·	·	·	·	·
Toilet boxing	·	·	·	■	■	·	·	·	·
Bathtub panels	·	·	·	■	■	·	·	·	·
Counters	·	·	·	·	·	■	■	■	■
Furniture construction	·	·	·	·	·	■	■	■	■
Partition walls	·	·	·	·	·	·	■	■	■
Thermal insulation	·	·	·	■	■	■	■	■	■

■ ALL DIMENSIONS IN MILLIMETRES. 4 MM ALSO PRODUCED. OTHER THICKNESSES TO ORDER.



6–12.5 MM
Linings & surfaces



20–30 MM
Boxing & panels

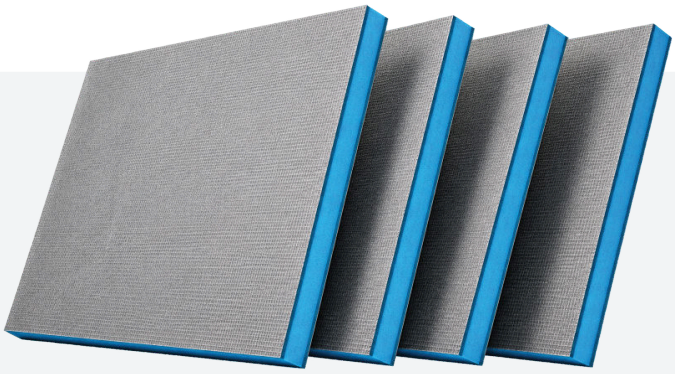


40–80 MM
Counters & partitions

01 INSUTILE® Build Board

XPS tile backer board

A rigid XPS board coated on both faces with fibreglass-mesh-reinforced cementitious mortar. Waterproof, thermally insulating and ready to tile. Used on walls, floors and wet areas, in ten thicknesses from 4 to 80 mm.



λ ≤ 0.034
W/mK · INSULATING CORE

≤ 0.1 %
WATER ABSORPTION

4–80 mm
THICKNESS RANGE · CUSTOM TO ORDER

PROPERTY	VALUE
Size	600 × 1200 mm and 600 × 2400 mm
Core	Extruded polystyrene · XPS · closed-cell
Surface	Cementitious, fibreglass mesh · both faces
Water absorption	≤ 0.1 % · EN 12087
Compressive strength	≥ 300 kPa · EN 826
Thermal conductivity	λ ≤ 0.034 W/mK · ASTM C518
Reaction to fire	Class E · EN 13501-1

APPLICATIONS

- Bathrooms & showers
- Floors & walls
- Underfloor heating
- Kitchens
- Countertops
- Renovation & retrofit

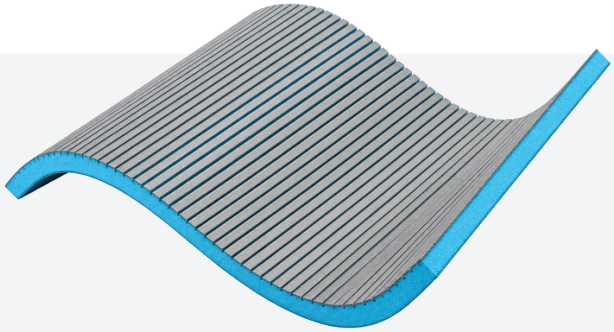
CHARACTERISTICS

- Waterproof core
- Direct tile adhesion
- 7× lighter than cement board
- ≥ 300 kPa strength
- Thermal insulation
- Score-and-snap cutting

02 INSUTILE® Flex Board

Curved backer boards

Slits in one face let the board bend by hand around columns, arches and curved walls, to a 200 mm minimum radius. Fixed and filled with adhesive, it sets rigid as a waterproof, tile-ready curve without formwork or heat forming.



R 200 mm
MINIMUM BEND RADIUS

Custom slits
LENGTH, DEPTH AND SPACING

Both ways
SLITS INSIDE OR OUTSIDE

PROPERTY	VALUE
Size	600 × 1200 mm and 600 × 2400 mm · Thickness 20 mm
Core	Extruded polystyrene · XPS · closed-cell
Surface	Cementitious, fibreglass mesh · slits on one face
Bend radius	200 mm minimum · slits inside or outside
Water absorption	≤ 0.1 % · EN 12087
Compressive strength	≥ 300 kPa · EN 826
Thermal conductivity	λ ≤ 0.034 W/mK · ASTM C518

APPLICATIONS

- Curved walls & partitions
- Arches & niches
- Spa & wellness
- Cylindrical columns
- Rounded showers
- Reception desks & counters

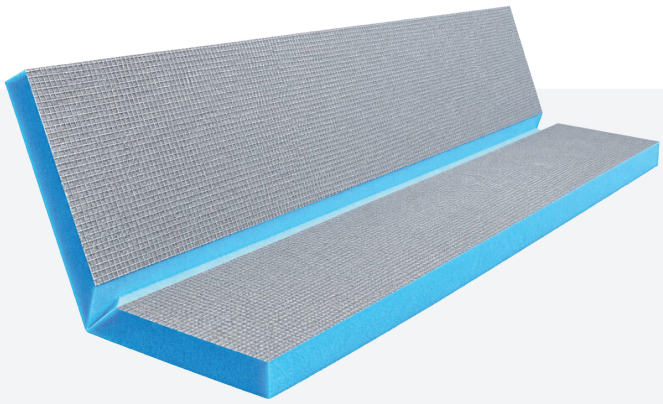
CHARACTERISTICS

- Bends to a 200 mm radius
- Rigid once fixed
- Bends by hand
- Bi-directional bending
- Waterproof core
- Any tile type

03 INSUTILE®
Angle Board

Pre-formed angle

V-scored at the factory and folded on site to a 90° angle. One piece forms internal and external corners, wall-to-floor junctions and pipe boxing, without timber framing. In showers, a waterproofing membrane is applied in most cases.



90°
FACTORY FOLD

Custom
WING SIZES

Optional
PRE-APPLIED DOUBLE-SIDED TAPE

PROPERTY	VALUE
Size	Wings 150 × 150, 200 × 200, 300 × 300 and 400 × 200 mm · Thickness 20 mm
Folding angle	90° or custom to order
Core	Extruded polystyrene · XPS · closed-cell
Surface	Cementitious, fibreglass mesh · both faces
Water absorption	≤ 0.1 % · EN 12087
Compressive strength	≥ 300 kPa · EN 826
Thermal conductivity	λ ≤ 0.034 W/mK · ASTM C518

APPLICATIONS

- Internal room corners
- External wall angles
- Wall-to-floor junctions
- Pipe runs

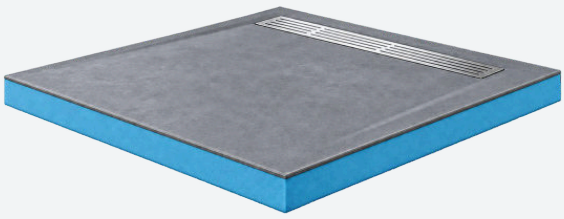
CHARACTERISTICS

- One-step pipe boxing
- Slim profile
- Access-panel compatible
- Sealed corner junctions
- Cuts with hand tools
- Suited to renovation

04 INSUTILE® Shower Underlay

Pre-sloped shower tray

A tile-ready shower base with the slope formed at the factory. Suitable for point drains, centred or offset, and for line drains along one edge. Trays can be made to order in any size, slope or drain position.



Multiple
DRAIN POSITIONS · CENTRE · OFFSET · LINE

Custom
SIZE, SLOPE OR DRAIN

Pre-sloped
AT THE FACTORY

PROPERTY	VALUE
Size	Point drain, centred: 900 × 900 to 1500 × 1500 mm Line drain: 1000 × 1000 to 1000 × 1800 mm
Core	Extruded polystyrene · XPS · closed-cell
Drain types	Point drain, centred or offset · Line drain along one edge
Surface	Cementitious, fibreglass mesh · both faces
Water absorption	≤ 0.1 % · EN 12087
Compressive strength	≥ 300 kPa · EN 826
Thermal conductivity	λ ≤ 0.034 W/mK · ASTM C518

APPLICATIONS

- Walk-in showers
- Steam rooms
- Spa shower areas
- Wetroom floors
- Hotel bathrooms
- Level-access showers

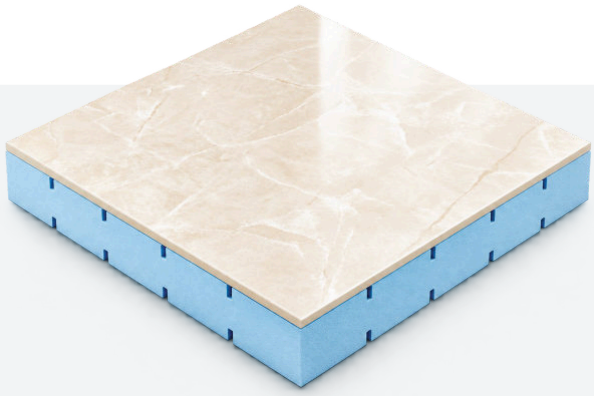
CHARACTERISTICS

- Waterproof core
- Supports foot traffic
- No wet screed
- Factory-formed slope
- Any drain type
- Cuts around drains

05 INSUTILE® Easy Board

Pre-tiled insulation panel

A porcelain tile bonded at the factory to a precision-cut XPS board. Finish and insulation are installed in one step on roofs, terraces, balconies, walls and floors, indoors and outdoors. Any tile design can be bonded to order.



Custom
TILE DESIGNS AND MATERIALS

20–50 mm
THICKNESSES

2 edges
TONGUE & GROOVE · STRAIGHT CUT

PROPERTY	VALUE
Size	300 × 300, 300 × 600, 600 × 600, 600 × 1200 mm
Core	Extruded polystyrene · XPS · precision-cut
Facing	Porcelain tile, factory-bonded · design to order
Water absorption (core)	≤ 0.1 % · EN 12087
Compressive strength (core)	≥ 300 kPa · EN 826
Thermal conductivity (core)	λ ≤ 0.034 W/mK · ASTM C518

APPLICATIONS

- Roofs & terraces
- Balconies
- Facades
- Pool surrounds
- Indoor–outdoor floors
- Walkways

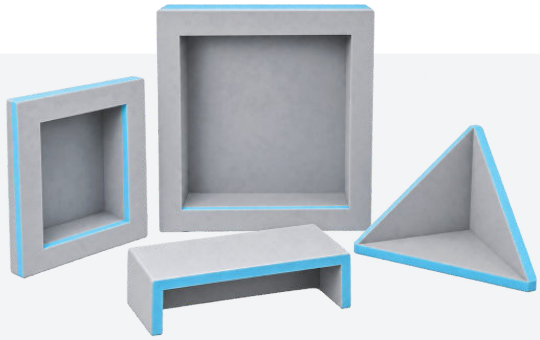
CHARACTERISTICS

- Single-step installation
- Weather-resistant
- Dimensionally stable
- Insulating core
- Lighter than screed and tile
- Any tile design

06 INSUTILE® Trays and Niches

Pre-formed shower components

One-piece recessed niches, corner shelves and seats made from Insutile® board. Niches are formed from 12.5 mm board, set into the wall and fixed through a perimeter flange. All components are tiled with the surrounding surfaces.



Multiple
STANDARD NICHE SIZES

Custom
DESIGN AND DIMENSIONS

Pre-formed
COMPONENTS

PROPERTY	VALUE
Size	Niches 400 × 200 to 1200 × 400 mm
Construction	12.5 mm · one-piece · pre-formed
Core	Extruded polystyrene · XPS · closed-cell
Surface	Cementitious, fibreglass mesh · tile-ready
Water absorption	≤ 0.1 % · EN 12087
Compressive strength	≥ 300 kPa · EN 826
Reaction to fire	Class E · EN 13501-1

APPLICATIONS

- Showers & wetrooms
- Steam rooms & spas
- Accessible showers
- Bathrooms
- Hotel bathrooms
- Renovation

CHARACTERISTICS

- One-piece, pre-formed
- Waterproof
- Thermally insulating
- Built-in fixing flange
- Ready to tile
- Custom sizes

07 INSUTILE®
Accessories

Installation and sealing accessories

Fixings, sealants, tapes and drains for installing Insutile® boards. All items are tested with the boards and supplied from a single source.



MSP Sealant & Adhesive

For bonding boards to substrates and sealing joints, fixings and penetrations.



Waterproof Sealing Tape

For sealing board joints and corners in showers and wet areas.



Joint Reinforcing Tape

For reinforcing the joints between boards before tile adhesive is applied.



Fixing Washers & Screws

For fixing boards to studs, battens and masonry. Washers are supplied with every board; screws are ordered separately.



Waterproofing Membrane

For coating board faces, joints and transitions in wet areas before tiling.



Tile Adhesive

For bedding ceramic, porcelain and stone tiles on the board face.



Waterproof Corner Seals

For sealing internal and external corners where walls and trays meet.



Pre-Applied Double-Sided Tape

Holds the fold at the correct angle while the adhesive cures. No clamps or bracing are required.



Shower Drains · Point & Line

For draining Insutile® Shower Underlay trays. The drain is specified with the tray order.



Fleece Waterproofing Layer

For sealing the tray surface and its transitions to adjacent walls and floors.

SOLUTIONS

Systems by space

Each system combines the boards, accessories and installation details required for a given space. The components are specified together, supplied by one manufacturer and covered by the Insutech system warranty.



BATHROOMS · WETROOMS · WALK-IN SHOWERS

01 Bathroom & Wetroom Systems

A waterproof, tile-ready construction system for bathrooms, wetrooms and walk-in showers, comprising Build Board, Shower Underlay, Angle Board, Flex Board and sealing accessories.

1 Shower Walls
BUILD BOARD
Waterproof substrate behind shower wall tiles

2 Shower Floor
SHOWER UNDERLAY
Pre-sloped base beneath shower floor tiles

3 Corners & Edges
ANGLE BOARD
Sealed internal and external corners and tile-ready edges

4 Vanity & Splash Walls
BUILD BOARD
Tile substrate behind basins and countertops

5 Bathroom Floor
BUILD BOARD
Insulated substrate beneath floor tiles

6 Counter
BUILD BOARD & ANGLE BOARD
Waterproof substrate and sealed edges for countertops

7 Bathtub Surround
BUILD BOARD & ANGLE BOARD
Waterproof substrate and sealed corners around the bathtub

8 Wall-to-Floor Junction
BUILD BOARD & ANGLE BOARD
Waterproof transition between walls and floors

9 Curved & Flexible Areas
FLEX BOARD & ANGLE BOARD
Substrate for curved surfaces and confined spaces

10 Toilet Box
BUILD BOARD
Waterproof enclosure for concealed cisterns and pipework



SPLASHBACKS · COUNTERS · FLOORS

02 Kitchen Tiling & Waterproofing Systems

Moisture-resistant, thermally insulating substrates for kitchens. The boards carry stone countertops, remain stable in high-moisture areas and are supplied ready to tile.

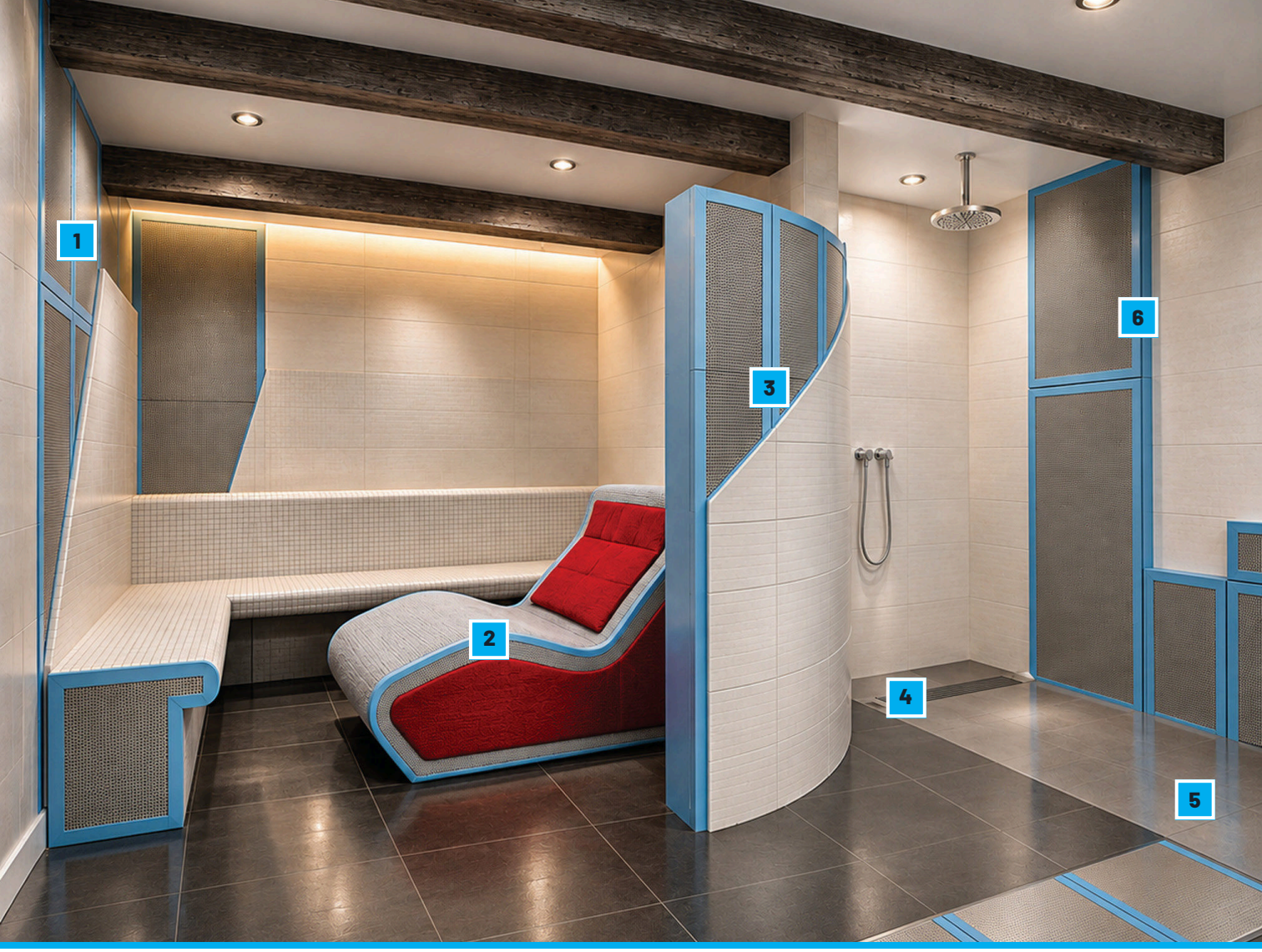
1 Wall Linings
BUILD BOARD
Waterproof substrate behind kitchen wall tiles

2 Under Floors
BUILD BOARD
Insulated, waterproof substrate beneath kitchen floor tiles

3 Splash Walls
BUILD BOARD
Waterproof splashback substrate behind the sink and cooktop

4 Countertop
BUILD BOARD & ANGLE BOARD
Waterproof substrate and sealed edges for kitchen counters

5 Around Appliances
BUILD BOARD & ANGLE BOARD
Waterproof lining around dishwashers, ovens and refrigerators



STEAM ROOMS · SPAS · WELLNESS SUITES

03 Spa & Wellness Systems

Substrates resistant to heat and moisture for steam rooms, spas and wellness suites. The boards insulate to retain heat, can be formed to curves and are tile-ready on walls, floors, benches and loungers.

1 Steam Room Walls
BUILD BOARD
Waterproof, insulated walls for continuously wet rooms

2 Benches & Loungers
BUILD BOARD & ANGLE BOARD
Self-supporting tiled spa furniture

3 Curved Features
FLEX BOARD
Curved walls, columns and contoured forms

4 Spa Shower Areas
SHOWER UNDERLAY
Pre-sloped, level-access shower zones

5 Floors
BUILD BOARD
Insulated, waterproof floors throughout

6 Corners & Junctions
ANGLE BOARD & ACCESSORIES
Watertight transitions in continuously wet rooms



LAUNDRY ROOMS · UTILITY SPACES

04 Laundry & Utility Room Systems

Durable, moisture-resistant substrates for laundry and utility rooms. The boards withstand humidity, leaks and the load of heavy appliances, and form tiled boxing for pipes and services.

1 Walls
BUILD BOARD
Moisture-resistant tile substrate for laundry walls

2 Floors
BUILD BOARD
Waterproof floor substrate, unaffected by leaks

3 Pipe & Service Boxing
ANGLE BOARD
Tiled boxing for pipes and services

4 Worktops & Shelving
BUILD BOARD
Moisture-resistant tiled counters and storage

5 Sink & Splash Zones
BUILD BOARD & ACCESSORIES
Sealed splash protection at the utility sink



HOTELS · COMMERCIAL FIT-OUTS

05 Hotel & Commercial Systems

A bathroom system for hotels and commercial fit-outs. The boards are light to handle in volume, quick to install across repeated room layouts and can be specified once for the whole project.

1 Walk-In Showers
SHOWER UNDERLAY
Level-access showers for guest rooms

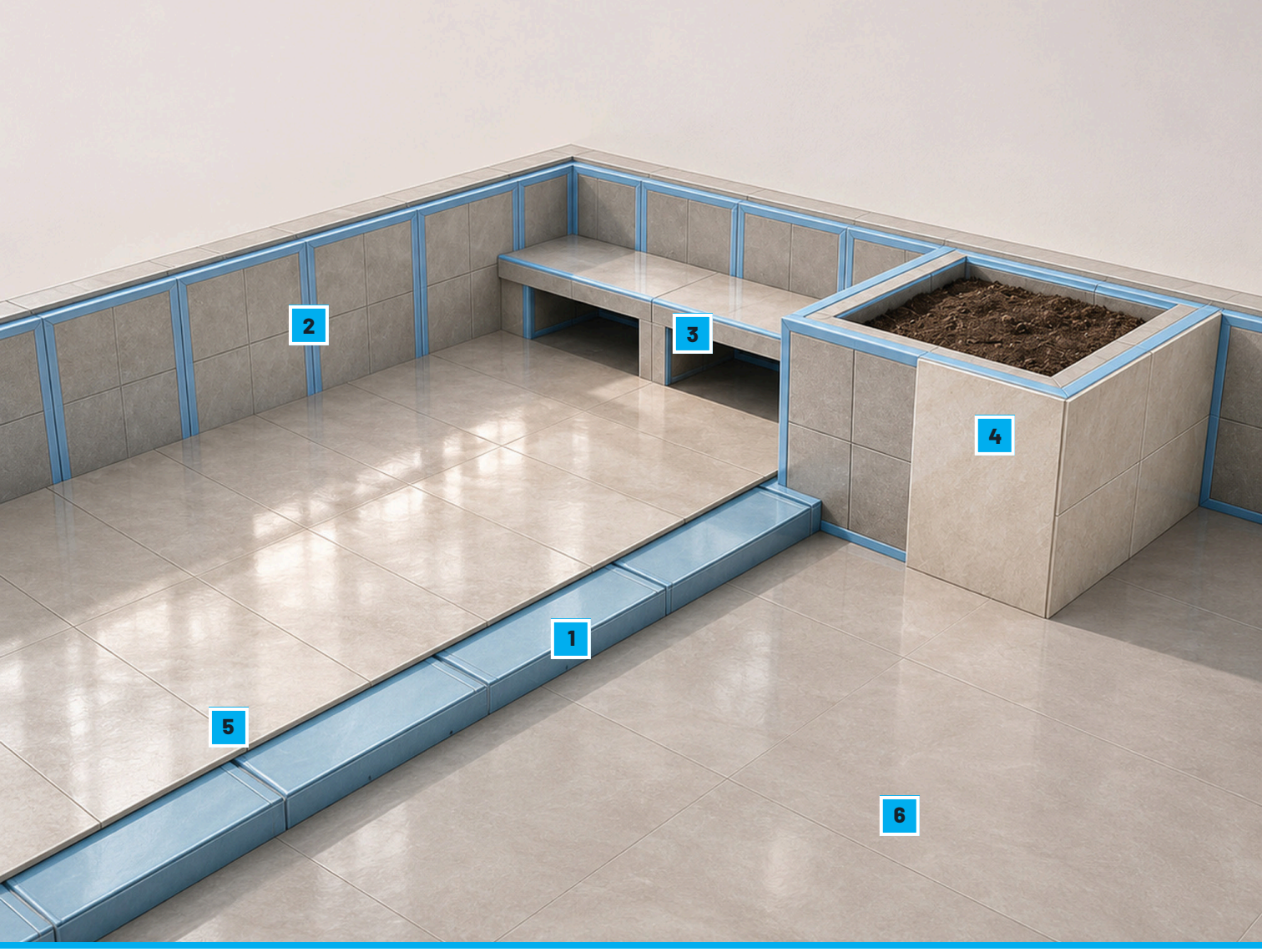
2 Guest Bathroom Walls
BUILD BOARD
One wall substrate for all guest bathrooms

3 Vanities & Counters
BUILD BOARD & ANGLE BOARD
Substrate for wall-hung vanities and stone counters

4 Curved Feature Walls
FLEX BOARD
Curved feature walls and reception details

5 Service Risers & Boxing
ANGLE BOARD
Repeatable boxing for building services

6 Floors
BUILD BOARD
Durable, insulated floors for guest areas



ROOFS · TERRACES · BALCONIES

06 Roof & Terrace Systems

An insulated, finished build-up for roofs and terraces. Easy Board provides the tiled surface and the insulation in a single layer, while Build Board and Angle Board form parapets, benches and planters.

1 Terrace Floor
EASY BOARD
Tiled finish and insulation in one layer

2 Parapet Walls & Upstands
BUILD BOARD
Tile-ready linings for walls and upstands

3 Built-In Benches
BUILD BOARD & ANGLE BOARD
Self-supporting tiled seating

4 Planters & Boxing
ANGLE BOARD & BUILD BOARD
Formed planter boxes and service boxing

5 Insulation Layer
EASY BOARD
Thermal layer beneath the finished surface

6 Junctions & Waterproofing
ACCESSORIES
Sealed joints, falls and drainage details

Specialised build-ups with the same boards



COUNTERS · TABLES · FURNISHINGS

Tiled furniture & counters

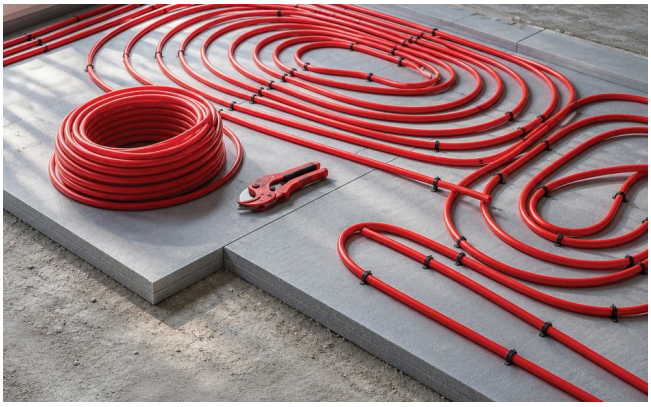
Furniture & counters. The boards are light enough for freestanding forms and strong enough to carry stone finishes. Angle Board closes and seals the exposed edges.



OUTDOOR KITCHENS · GARDEN FEATURES

Exterior applications

Exterior. The closed-cell core has a water absorption of ≤ 0.1 %, which makes the board a stable substrate for sheltered exterior work. Specified per project.



ELECTRIC & WATER-BASED SYSTEMS

Underfloor heating

Underfloor heating. The insulating layer directs heat upwards into the floor finish, reducing warm-up time and heat loss to the subfloor. Electric mats and water pipes are laid directly on the board.



POINT & LINE DRAINS

Shower trays made to measure

Shower trays. Falls to point or line drains are formed at the factory. Standard sizes run from 900 × 900 to 1500 × 1500 mm for point drains and up to 1000 × 1800 mm for line drains. Any size, slope or drain position to order.

INSUTILE®

A Product by INSUTECH



HEAD OFFICE

Plot 77, S Teseen Road,
5th Settlement,
New Cairo, Egypt

PHONE

+20 2 2322 8200
+20 10 2758 8889

EMAIL & WEB

info@insutech-eg.com
insutile.com
insutech-eg.com