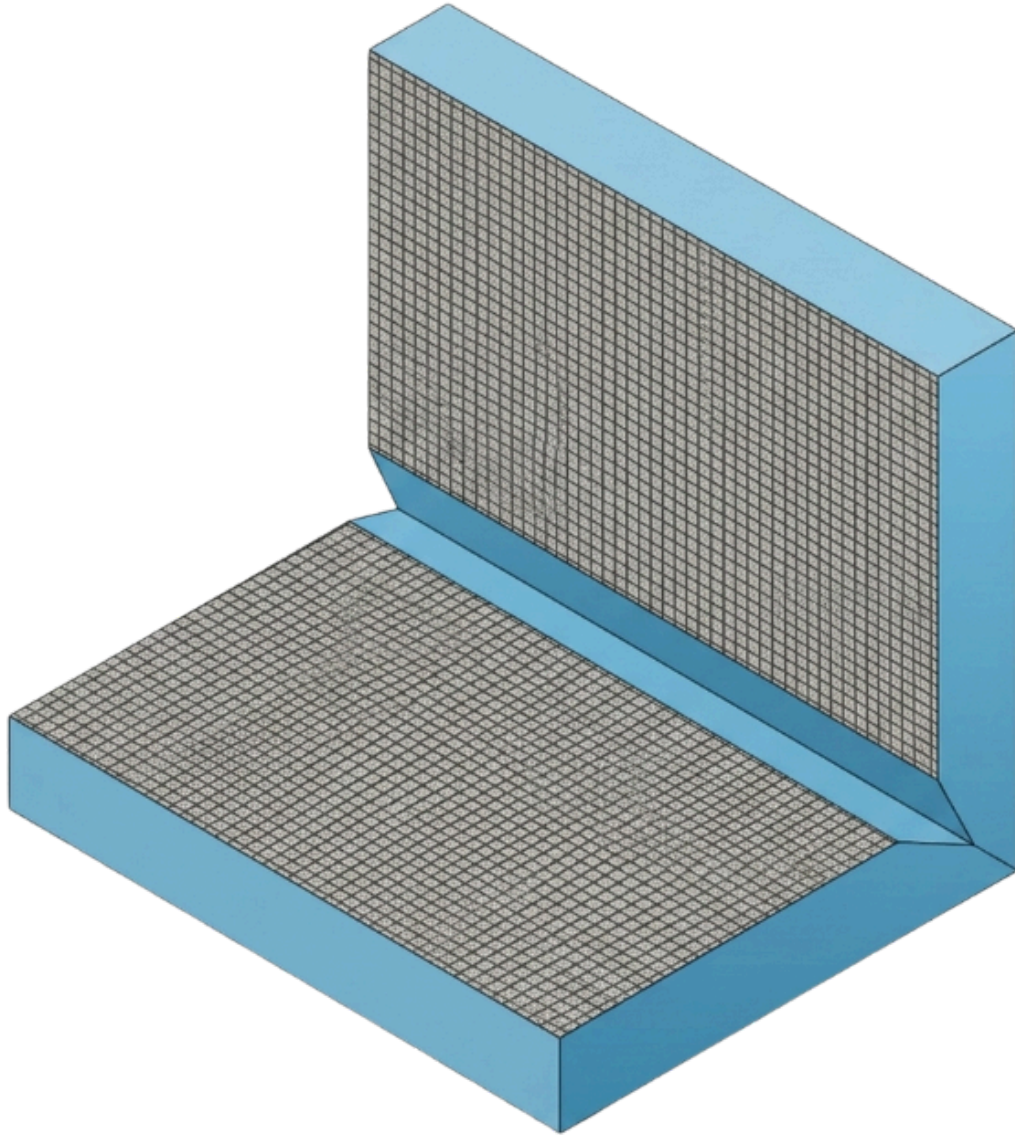


A01 · 0,0

A01 · X+



• LIGHTWEIGHT CONSTRUCTION BOARDS · INSTALLATION MANUAL · VOL. 01

# ANGLE BOARD.

• FIG. 01

§ 00

# Contents

Eight sections — everything you need to specify, source, cut, fix, waterproof and finish an INSUTILE® Angle Board installation.

03	<b>Product Overview</b>	BOARD CONSTRUCTION	p.03
04	<b>Accessories &amp; Supply Policy</b>	WHAT WE MANUFACTURE	p.04
05	<b>Tools &amp; Materials</b>	SITE CHECKLIST	p.05
06	<b>Available Sizes</b>	DIMENSIONS MATRIX	p.06
07	<b>Step-by-Step Installation</b>	7 STEPS · DIAGRAMS	p.07– 08
09	<b>Key Features &amp; Benefits</b>	9 CHARACTERISTICS	p.09
10	<b>Applications</b>	WHERE TO USE	p.10
11	<b>Contact &amp; Support</b>	REACH THE TEAM	p.11

## SYMBOL LEGEND

Pro tip · required

 Checklist item Dry-fit / layout↳ FIG.  
N Technical  
figure

## § 01 · OVERVIEW

# Pre-formed corners.

INSUTILE® Angle Board is a pre-formed corner profile made from the same XPS + cementitious construction as our Build Board — factory V-scored and folded to a permanent 90° angle as standard, with other fold angles available to order. One board, one fix, one clean internal corner.

Angle Board eliminates the mitred-joint problem at internal corners in wet areas — no cold joints, no alignment error, no waterproofing failure at the crease. Drop it in, fix it through both wings, tape the outer edges.

## CORE DENSITY

**33** kg/m<sup>3</sup>

## COMPRESSION

≤ **300** kPa

## λ · THERMAL

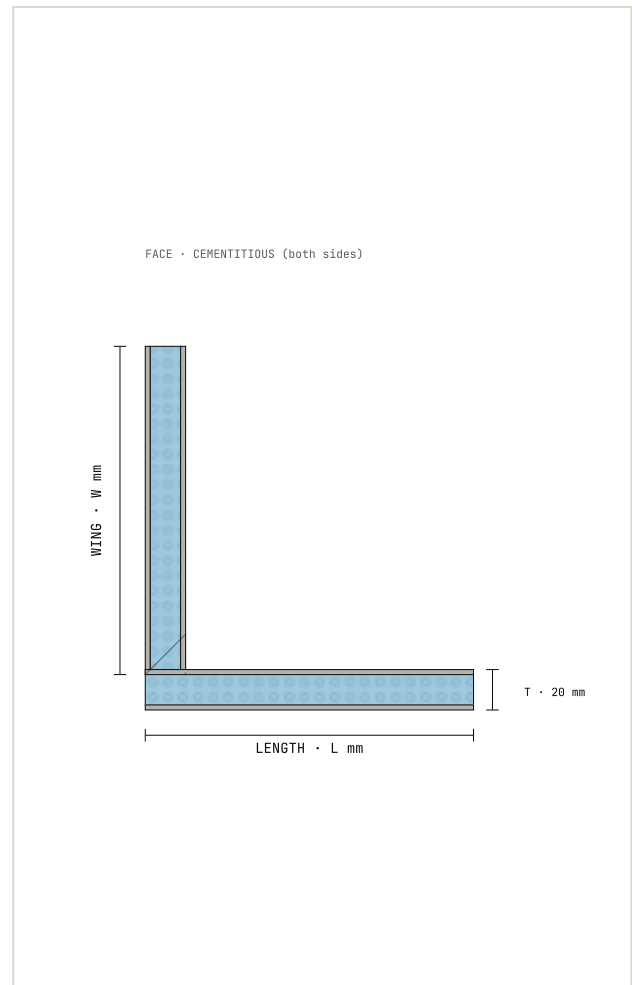
≤ **0.036** W/mK

## WATER ABSORPTION

≈ **0** % vol

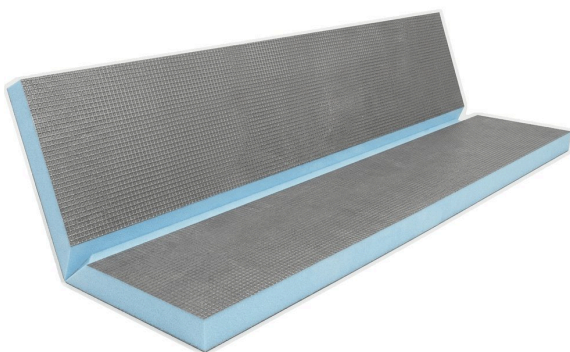
**NOTE** · Values are indicative — custom specs available on request.

FIG. 02 · SIDE VIEW · SECTION B-B · SCALE 25:1



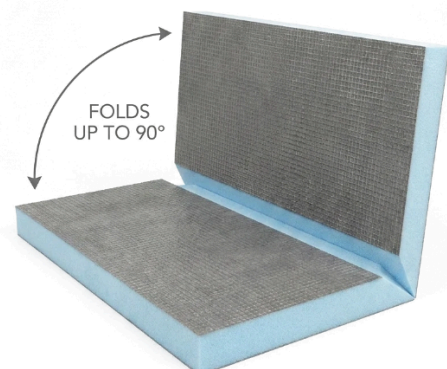
SIDE SECTION AT 25:1 · INDICATIVE CONSTRUCTION

PHOTO · 01 · PROFILE



● IMG

PHOTO · 02 · 90° FOLD



● IMG

## § 02 · SCOPE OF SUPPLY

# Our Range of Products.

INSUTILE® manufactures the tile backer boards. Every accessory used in a typical installation is contractor-sourced and are standard tile installation products. On request we can custom-manufacture accessories to a clients specification, subject to an MOQ that varies by product.

- INSUTILE-MANUFACTURED

SKU · BOARDS

## Boards supplied from our factory.

**B01 Build Board**  
XPS tile backer · 4–60 mm

**B02 Angle Board**  
Pre-formed angle · wet-area corners

**B03 Flex Board**  
Curved & shaped applications

**B04 Shower Underlay Board**  
Sloped tray substrates

Direct from INSUTILE® – no MOQ on standard sizes.

- CONTRACTOR-SOURCED

NOT INSUTILE-BRANDED

## Accessories — your preferred brand.

**A01 Adhesive**  
Optional — extra hold

**A02 Fixing screws**  
Primary fix

**A03 Pressure washers**  
Primary fix

**A04 Corner seals**  
Wet-area corners

**A05 Joint tape**  
Alkali-resistant mesh

**A06 Waterproofing membrane**  
Two-coat, wet areas

**A07 Tile adhesive**  
Flexible thin-set

**A08 Grout & silicone**  
Finishing

Source from your preferred brand.

- CUSTOM

# MOQ

VARIES BY  
PRODUCT

## CUSTOM ACCESSORIES ON REQUEST

INSUTILE® can manufacture accessories — adhesives, screws, washers, corner seals and similar — to your specification, subject to a minimum order quantity that varies by product. Confirm MOQ and lead times before specifying INSUTILE-branded accessories.

## FIXATION METHOD

**Mechanical fix is the standard.**

Screws + pressure washers — the only required method. Adhesive is optional reinforcement.

## § 03 · CHECKLIST

# Tools & Materials.

Check the site has everything below before you start.

## Essential tools

09 ITEMS

- |                          |   |     |
|--------------------------|---|-----|
| <input type="checkbox"/> | <b>Tape measure</b><br>5 m minimum · metric scale   | T01 |
| <input type="checkbox"/> | <b>Spirit level</b><br>1200 mm recommended  | T02 |
| <input type="checkbox"/> | <b>Utility knife / scoring tool</b><br>For score-and-snap cutting   | T03 |
| <input type="checkbox"/> | <b>Straight edge / T-square</b><br>≥ 1000 mm rule   | T04 |
| <input type="checkbox"/> | <b>Drill / driver</b><br>Primary fix · screws & washers   | T05 |
| <input type="checkbox"/> | <b>10 mm notched trowel</b><br>Only if adhesive is used   | T06 |
| <input type="checkbox"/> | <b>Pencil / marker</b><br>Soft pencil preferred   | T07 |
| <input type="checkbox"/> | <b>PPE</b><br>Gloves · goggles · dust mask  | T08 |
| <input type="checkbox"/> | <b>Spring clamps / bracing</b><br>Hold boards during mechanical fixing ·<br>not required if ordered with self-<br>adhesive tape | T09 |

## Materials

10 ITEMS

- |                          |   |     |
|--------------------------|---|-----|
| <input type="checkbox"/> | <b>INSUTILE® Angle Board</b><br>Panels in required thickness · see §04                      | M01 |
| <input type="checkbox"/> | <b>Double-sided mounting tape</b><br>Factory-applied · optional order extra ·<br>both wings | M02 |
| <input type="checkbox"/> | <b>Fixing screws</b><br>Primary fix · contractor brand                                      | M03 |
| <input type="checkbox"/> | <b>Pressure washers</b><br>Primary fix · 300 mm centres                                     | M04 |
| <input type="checkbox"/> | <b>Construction / sealant adhesive</b><br>Optional · extra reinforcement only               | M05 |
| <input type="checkbox"/> | <b>Joint reinforcing tape</b><br>Alkali-resistant mesh                                      | M06 |
| <input type="checkbox"/> | <b>Waterproofing membrane</b><br>Wet areas · 2 coats  | M07 |
| <input type="checkbox"/> | <b>Waterproof corner seals</b><br>Internal corners · wet areas                              | M08 |
| <input type="checkbox"/> | <b>Flexible tile adhesive</b><br>Thin-set mortar  | M09 |
| <input type="checkbox"/> | <b>Grout &amp; silicone sealant</b><br>For finishing · colour-matched                       | M10 |

SUPPLY NOTE · SEE §02

! Items marked ● are INSUTILE-manufactured.

## § 04 · DIMENSIONS MATRIX

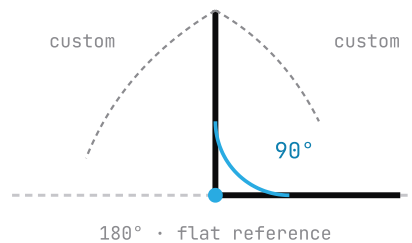
# Available sizes.

Pre-formed 90° angle profiles in a 20 mm standard thickness, with four standard length × width combinations. Folded to 90° at the factory — other fold angles on request. All dimensions in millimetres.

AXIS	SYMBOL	STANDARD OPTIONS · MM	CUSTOM
<b>Thickness</b> 01 · board thickness	T	<b>20</b> standard <b>30 · 40</b> alt.	● on request
<b>Wing size</b> 02 · length × width	L×W	<b>150×150 · 200×200 · 300×300 · 400×200</b>	● on request
<b>Fold angle</b> 03 · factory V-score	θ	<b>90°</b> standard	● any angle on request

FIG. 03 · FOLD ANGLE · STANDARD

● θ = 90°



## ● CUSTOM

## Special orders.

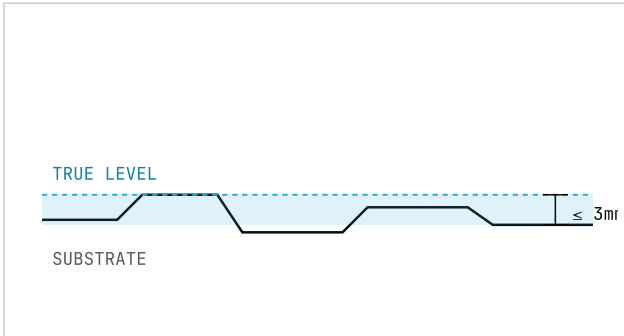
## CUSTOM DIMENSIONS, THICKNESSES &amp; FOLD ANGLES

Non-standard widths, lengths, thicknesses (outside 20 / 30 / 40 mm) and fold angles (other than 90°) can be manufactured to specification. Confirm feasibility, MOQ and lead time with the INSUTILE® team before specifying.

## § 05 · INSTALLATION

# Seven steps.

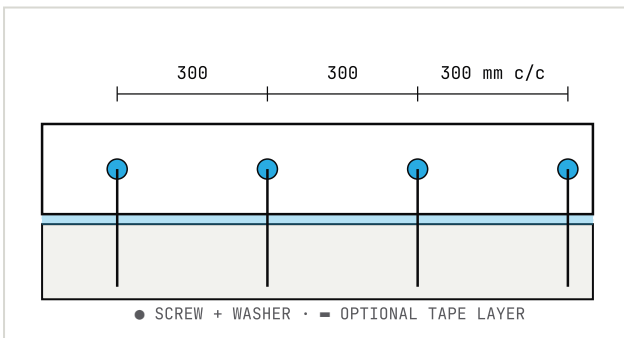
## 01 STEP 01 Substrate preparation



Both intersecting wall surfaces must be clean, dry, plumb, and square. The internal corner itself must be free of debris — any build-up will stop the Angle Board seating fully into the crease.

Check the corner is truly 90° with a framing square. Out-of-square corners need packing before the Angle Board goes in.

## 03 STEP 03 · PRIMARY FIX Fixing both wings



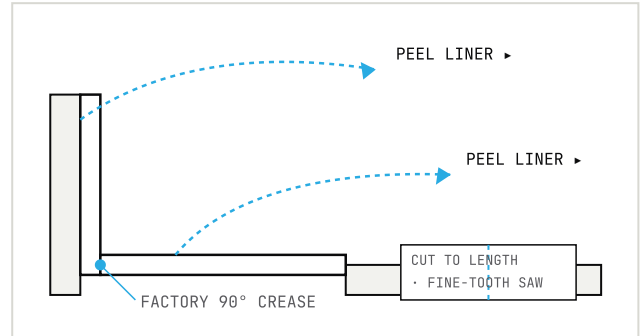
Fix **through both wings** with screws + pressure washers at 300 mm c/c. Keep screws  $\geq 25$  mm from the crease. Fix one wing first, then the second — apply gentle pressure toward the corner as you go.

If the board was seated using the optional factory-applied tape, the tape alone is enough to hold it square while you drive the screws — skip clamps and braces. The tape does **not** replace mechanical fixing; screws remain the primary fix.

## PROGRESS · STEPS 1-4 OF 7



## 02 STEP 02 · DRY-FIT Cutting & fitting

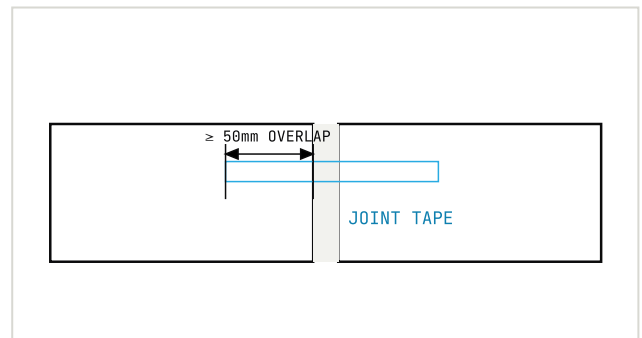


Measure the corner height and cut the Angle Board **to length** with a fine-tooth saw — leave both wings connected. Never cut through the factory crease.

Dry-fit the board into the internal corner. Both wings must sit flush to their substrates with the crease tight into the corner.

**With factory-applied tape** — peel the release liners and press both wings to their substrates; the tape holds the board square, hands-free. **Without tape** — clamp or brace both wings flush while driving the screws in Step 03.

## 04 STEP 04 Joint treatment



Tape the **outer edges** of both wings where they meet adjacent Build Board. The crease itself is already factory-reinforced — no tape needed inside the angle.

Overlap mesh tape by  $\geq 50$  mm. Let the joint compound dry fully before waterproofing.

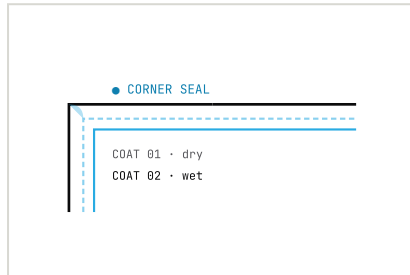
§ 05 · INSTALLATION · CTD.

# Seal. Tile. Finish.

PROGRESS · STEPS 5-7 OF 7

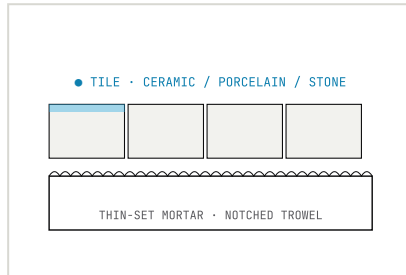


## 05 STEP 05 Waterproofing



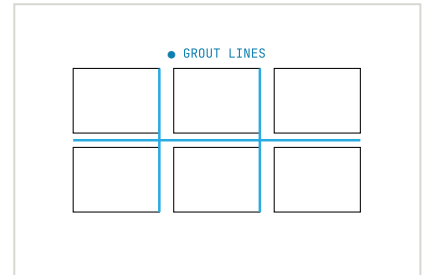
Wet areas only. Apply membrane in two coats over joints, corners, penetrations. Use corner seals in every internal corner. Fully tanked behind tile.

## 06 STEP 06 Tiling



Apply flexible thin-set directly to the board face — no priming needed. Standard techniques. Back-butter large-format tiles and stone.

## 07 STEP 07 Finishing



Grout all joints with a tile-appropriate grout. Wet areas: waterproof grout + silicone in corners, junctions, penetrations. Cure fully before water contact.

• NOTE

### Recommended guide.

CONTRACTOR DISCRETION

The steps above are an **indicative installation guide**. INSUTILE® Build Board can be installed using any standard method the contractor prefers for tile backer boards — screw-and-washer mechanical fix is our recommendation, but alternative practices that meet the substrate, waterproofing and load requirements are acceptable. Always follow local building codes and the adhesive / membrane manufacturer's instructions.

INDICATIVE CURE TIMELINE

Δt · HOURS

0h

24h · adhesive cure (if used)

48h · membrane cure

72h · grout & silicone cure

• READY FOR WATER

## § 06 · PERFORMANCE CHARACTERISTICS

# Reasons why Angle Board works.

Angle Board solves the hardest part of any wet-area tiling job — the internal corner — in a single pre-formed piece.

F01



## Zero-joint waterproof corner

No mitre, no butt-joint, no cold joint at the crease — the most common waterproofing failure point is eliminated by design.

**0 JOINTS** AT THE CORNER

F02



## Factory-guaranteed 90°

Pre-formed at manufacture. No site mitring, no alignment error, no tolerance creep.

**± 0.5°** OUT OF FACTORY

F03



## Excellent tile adhesion

Factory-applied cementitious coat grips adhesive firmly. Compatible with all standard cement, dispersion and reactive adhesives — no priming.

**NO PRIMER** REQUIRED

F04



## Thermal insulation

Thermal conductivity  $\leq 0.036$  W/mK. Reduces heat loss through the substrate and improves thermal comfort.

**$\lambda \leq 0.036$**  W/MK

F05



## Dimensional stability

XPS doesn't expand, warp, or shrink with temperature or humidity. Tiled surfaces stay flat and crack-free year-round.

**ZERO CREEP** TEMP/HUMIDITY

F06



## Lightweight

Up to 85 % lighter than cement backer boards. One person can carry and position full-size panels — cutting labour and logistics cost.

**-85 %** VS CEMENT BOARD

F07



## Easy to install & cut

Score and snap with a utility knife — no power tools, no dust. Fix to studs, masonry or existing surfaces with screws and pressure washers; adhesive optional for extra hold.

**NO DUST** SCORE & SNAP

F08



## Underfloor heating

Insulating core directs heat upward. Compatible with electric mat and water-pipe systems — improves response and efficiency.

**+ EFFICIENCY** ELECTRIC

F09



## One-piece install

One corner, one board, one fix. Replaces the multi-step site workflow of cutting, butting and sealing two panels at each corner.

**1 PIECE** PER CORNER

## § 07 · WHERE TO USE

# Applications.

From residential bathroom corners to hotel spa walk-ins — INSUTILE® Angle Board is used wherever a tiled internal corner meets moisture or heavy use.



## Shower & wet-area corners

The original use case. Eliminates the waterproofing weak point where two wall substrates meet inside a shower enclosure.



## Bathroom wall corners

Any internal wall-to-wall corner in a tiled bathroom. Use with Build Board on the open faces.



## Wall-to-floor transitions

Where a tiled wall meets a tiled floor — bathroom, wet-room, shower tray perimeter, spa-floor corners.



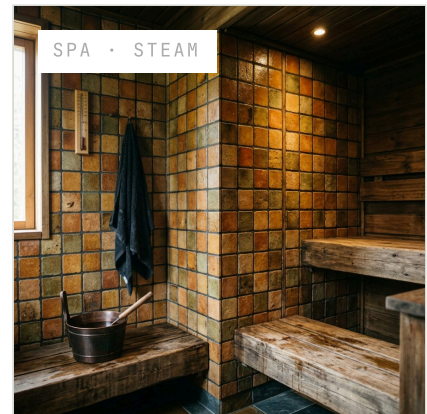
## Niches & alcoves

Recessed shower niches, bathroom alcoves, and built-in shelves — four clean internal corners in a single installation.



## Kitchen splashback corners

Where a tiled backsplash meets a tiled or stone countertop edge — a clean, waterproof factory corner.



## Spa & steam room corners

Four watertight internal corners in any enclosed wet-room — steam rooms, hydrotherapy, sauna wet-zones.

• § 09 · CONTACT & SUPPORT

# Leaders in Insulation.

For technical support, product enquiries, specification assistance, or to request a quote — reach the INSUTILE® team directly.

WEBSITE

[www.insutile.com](http://www.insutile.com)

Latest datasheets · images

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04 · 2026

