

W-S BOARD

DESCRIPTION: Waterproof panel with dry construction, offering high building capacity and easy cutting. It consists of a high-density XPS core covered with WATER-STOP waterproof sheet on both sides.

USE: Shower walls, bathtub and steam shower coatings. It is also used to create shower niches, shower benches, shelves, and countertops. Additionally, it can be used under radiant floor heating systems as an insulating layer.

STANDARDS: IAPMO PS 106, ANSI A118.10, ASTM E96, TCNA Handbook

MANUFACTURER: ESTIL GURU S.L.U.

REFERENCES:

REFS.	DESCRIPTION	SIZE (mm)
IMU9318	W-S BOARD PANEL	2600 x 625 x 10
IMU9319	W-S BOARD PANEL	2600 x 625 x 12,5
IMU9320	W-S BOARD PANEL	2600 x 625 x 20
IMU9321	W-S BOARD PANEL	2600 x 625 x 30
IMU9322	W-S BOARD PANEL	2600 x 625 x 40
IMU9317	W-S BOARD PANEL	2600 x 625 x 50



TESTING TABLE:

CHARACTERISTICS	METHOD	VALUE
Nominal density	ASTM C303	40 m ³
Compressive strength	ASTM D1621	330 kPa
Flexural strength	IAPMO Z24	Pass
Impact load test in area	IAPMO Z24	> 1.1 %
Waterproofing	ASTM D4068	Pass
Water vapour transmission	ASTM E96 Proc. E	0.3 US Perm
Resistance to fungal and mold growth	PS 106 - 5.5	Pass
Thermal resistance (RSI value)	ASTM C518	0,4 m ² -K/W
Thermal conductivity λ (Lambda):	EN 12667	0,035 V/m-K
Fire reaction classification	EN 13501-1	C S2 d0
Shear strength between the tile and W-S BOARD surface:		
7-day drying	ASTM C482	0,82 N/mm ²
7-day water immersion		0,57 N/mm ²
4 weeks		0,92 N/mm ²
12 weeks		0,95 N/mm ²
100-day water immersion		0,59 N/mm ²
Temperature resistance		-30°C / +80°C

SUITABLE SUBSTRATES:

- Brick, masonry surfaces, concrete.
- Walls with wooden or metal structures:
 - Wooden studs: Minimum nominal dimensions of 5 x 10 cm with a maximum spacing of 41 cm on centers.
 - Steel studs: Structure with a minimum thickness of gauge 20 and a maximum spacing of 41 cm on centers.
- Wooden floors: Structure with studs with a maximum spacing of 41 cm on centers. Subfloor: Minimum thickness of 19 mm exterior grade plywood or OSB securely fastened and glued to the beams.

LIMITATIONS / PRECAUTIONS:

- Not suitable for outdoor applications.
- Do not expose the W-S BOARD to direct sunlight without protection for more than 30 days.
- W-S BOARD must be covered with ceramic tiles, stone, or another hard finish. If the WATER-STOP sheet of the panel is pierced during installation, treat with W-S MASTIC sealant or a polyurethane sealant. Apply the sealant and spread it to cover the pierced area and 50 mm around it.
- If bathroom accessories such as grab bars in showers or other heavy objects are installed, the accessories must be anchored to the structure or to a solid reinforcement behind the W-S BOARD.

INSTALLATION:

Cutting:

Use a utility knife to cut to size and make cutouts for pipes and fittings.

Fixing:

Fix the panels directly to the studs using W-S BOARD washer tabs and corresponding screws. Use wood screws for wooden studs and self-tapping screws for metal studs. The selected screws should be long enough to reach a depth of at least 10 mm into metal studs.

- **Walls:** Screws should be spaced no more than 30 cm vertically and 40 cm horizontally.
- **Roofs:** Screws should be spaced no more than 15 cm.

Starting at the bottom of the wall, install the W-S Board on the wall studs using the appropriate screw.

Align the panels over the center of the studs.

Place the fasteners in the center of the panel first, working towards the edges. Fasten the perimeter screws at least 15 cm from the edges. Keep the panel in firm contact with the frame while placing the fasteners.

Jointing and waterproofing:

W-S BOARD is waterproof, but all joints, corners, pipe penetrations, and fastenings must be sealed.

Use W-S BAND to treat panel joints and transitions with adjacent areas.

Use a C2-class adhesive as per EN 12004 or ISO 13007-1 applied with a 6 x 6 notched trowel.

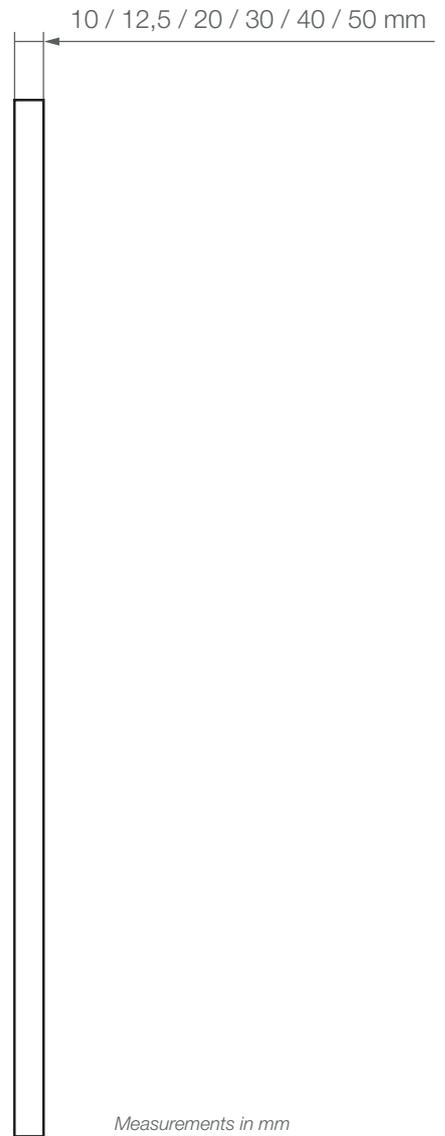
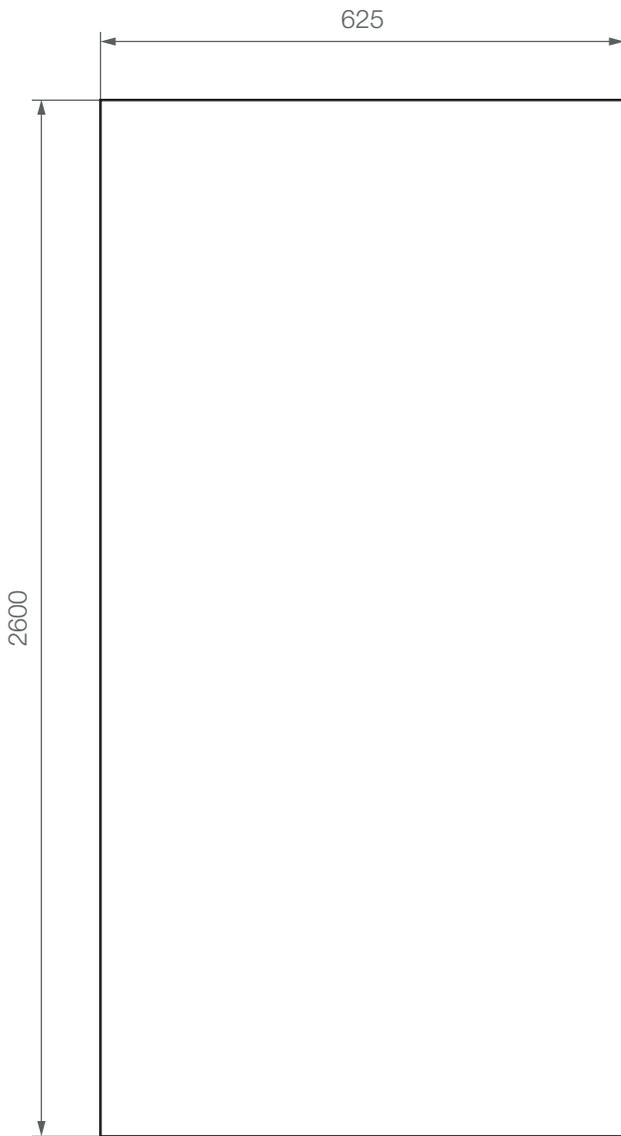
Place the W-S BAND and press it firmly into the adhesive. Eliminate any trapped air and ensure full adhesion by spreading the adhesive from the inside out using a spatula or similar, removing and smoothing excess material.

Treat the fastenings with W-S MASTIC. Apply only enough sealant to cover the screw head and then smooth it using a spatula or similar.

Use W-S BAND, W-S DEX, W-S DIN, SAFETUB, and W-S PASSTUB accessories to complete the sealing.

Tiles can be installed immediately using a C2-class adhesive as per EN 12004 or ISO 13007-1. Choose an appropriate notched trowel for the tile size.

TECHNICAL DRAWINGS:



Measurements in mm