

# W-S Board

## Dry construction panel

### Description

Waterproof dry construction panel with high structural versatility and easy cutting. Composed of a high-density XPS core faced on both sides with WATER-STOP waterproof membrane. It can be used on shower walls, bathtub claddings and steam showers. It can also be used beneath underfloor heating systems as an insulation layer.

### Features

Available sizes (mm): 2600 × 625 / 1200  
Available thicknesses (mm): 10 - 12.5 - 50  
Easy to cut  
Waterproof  
Uniform flatness  
Lightweight  
Reduces installation time  
Ideal for steam showers

### Technical data

Compressive strength: 500 kPa - 50 PSI  
< 0.3 perms - ideal for steam showers



### Manufacturer

Estil Guru S.L.U

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### Product

Ref.	Description	Internal dimensions (mm)
IM93018	W-S Board	2600 × 625 × 10
IM93019	W-S Board	2600 × 625 × 12,5
IM93024	W-S Board	2600 × 1200 × 12,5
IM93017	W-S Board	2600 × 625 × 50
IB93024	Pack of 5 pcs: W-S Board Pre-Cut	2600 × 1200 × 12,5 mm
IBU9312	Pack of 7 pcs: W-S Board Pre-Cut	1524 × 914 × 12,5 mm

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### Test table

Features	Method	Unit	Value
Nominal density	ASTMC303	m <sup>3</sup>	40
Compressive strength	ASTM D1621	kPa	330
Flexural strength	IAMPO Z24	-	Pass
Area impact load test	IAMPO Z24	%	>1.1
Resistance to fungal and mold growth	PS 106 - 5.5	-	Pass
Thermal resistance (RSI value)	ASTM C518	m <sup>2</sup> ·K/W	0.4
Thermal conductivity λ (Lambda)	EN12667	V/m·K	0.035
Reaction-to-fire classification	EN 13501-1	-	C S2 d0

Shear bond strength between tile and W-S Board surface:

<b>7-day cure</b>		<b>N/mm<sup>2</sup></b>	<b>0.82</b>
<b>7-day water immersion</b>		<b>N/mm<sup>2</sup></b>	<b>0.57</b>
<b>4 weeks</b>	<b>ASTM C482</b>	<b>N/mm<sup>2</sup></b>	<b>0.92</b>
<b>12 weeks</b>		<b>N/mm<sup>2</sup></b>	<b>0.95</b>
<b>100-day water immersion</b>		<b>N/mm<sup>2</sup></b>	<b>0.59</b>
Temperature resistance	-	°C	-30 / +80

### Limitations / precautions

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

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### Suitable substrates

- Brick, masonry surfaces, concrete.
  - Walls with timber or metal framing:
    - Timber studs: nominal dimensions of at least 5 × 10 cm, with a maximum stud spacing of 41 cm on centre.
    - Steel studs: structure with minimum 20-gauge thickness and maximum stud spacing of 41 cm on centre.
  - Timber floors: joist structure with a maximum joist spacing of 41 cm on centre. Subfloor: minimum thickness of 19 mm exterior-grade plywood or OSB, fastened and glued to the joists.
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### Installation

#### Cutting:

Use a utility knife to cut to size and make cut-outs for pipes and accessories.

#### Fastening:

Fasten the panels directly to the studs using W-S BOARD washers and the corresponding screws. Use screws for wood studs and self-drilling screws for metal studs. The selected screws must be long enough to achieve a penetration depth of at least 10 mm into metal studs.

- Walls: Screws must be spaced at a maximum of 30 cm vertically and 40 cm horizontally.
- Ceilings: Screws must be spaced at a maximum of 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 with the centreline of the studs.

Place the fasteners first in the centre of the panel, working towards the edges. Fix perimeter screws at least 15 cm from the edges. Keep the panel firmly in contact with the framing while installing the fasteners.

#### Joint treatment and waterproofing:

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

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

Use class C2 tile adhesive according to EN 12004 or ISO 13007-1, applied with a 6 × 6 notched trowel.

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

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

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 class C2 tile adhesive according to EN 12004 or ISO 13007-1. Choose a notched trowel suitable for the tile format.

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## Technical drawings (mm)

