

W-S NICHE

Description: Niche made from W-S BOARD panels, with integrated slopes that facilitate the flow of water thanks to its own structure. Watertight. The shelf is delivered loose to be installed as desired.

Suitable for wet areas, such as bathrooms, and can be installed in kitchens or anywhere else that requires a recessed niche in the wall.

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

References:

REFS.	DESCRIPTION	MEASURE	INTERIOR SHELF
IMU5000	W-S NICHE	12" x 12"	NOT INCLUDED
IMU5001	W-S NICHE	12" x 20"	INCLUDED (1 U.)
IMU5002	W-S NICHE	12" x 24"	INCLUDED (1 U.)
IMU5003	W-S NICHE	12" x 28"	INCLUDED (1 U.)



TEST TABLE:

PROPERTY	TEST METHOD	VALUE
Nominal density	ASTM C303	2.5 pcf
Compressive strength	ASTM D1621	48 psi
Flexural strength	IAPMO Z24	Pass
Area Impact Load Test	IAPMO Z24	> 1.1 %
Waterproofness	ASTM D4068	Pass
Water Vapor Transmission	ASTM E96 Proc. E	0.3 Perm
Fungus and Mold Growth Resistance	PS 106 - 5.5	Pass
Thermal resistance (R-value)	ASTM C518	2.2
Fire reaction	EN 13501-5	Euroclass E
Shear Strength between the tile and the backing surface		
7- Day Dry	ASTM C482	119 psi
7- Day Water Immersion		83 psi
4- Week		133 psi
12- Week		138 psi
100- Day Water Immersion		85 psi
Resistance to temperature		-22°F / +176°F

SUITABLE SUBSTRATES

- Brick, masonry surfaces, concret.
- Wood or metal studded walls:

Wood Studs: Nominal Dimensions 2" x 4" (5 x 10 cm) minimum with maximum span of 16" o.c. (41 cm).

Steel Studs: Minimum Thickness 20 gauge with maximum span of 16" o.c. (41 cm).

LIMITATIONS / CAUTIONS

- Not for use in exterior applications.
- Do not expose unprotected W-S NICHE to sun for more than 30 days.
- W-S NICHE must be covered with ceramic tile, stone, or other hard finish. If WATER-STOP facer on the board is punctured during installation, treat with W-S Sealant or polyurethane sealant. Apply sealant and spread to cover the punctured area and 2" (50 mm) around.
- A horizontal cross member should be installed on which the niche should rest if placed horizontally.

INSTALLATION

Fastening:

Attach the niche directly to the studs using washers for W-S NICHE and matching screws. Use wood screws for wood studs and self-tapping screws for metal studs. Screws selected must be of sufficient length to reach a depth of at least 10 mm into metal studs.

- **Walls:** Screws should be spaced a maximum of 30 cm vertically and 40 cm horizontally.

Starting at the bottom of the niche space, install the W-S NICHE into the wall studs using the appropriate screw.

Adjust the panels over the center of the studs.

Keep the niche in firm contact with the framing while attaching the fasteners.

Joining and waterproofing:

W-S niche is watertight, but for a watertight installation, all joints of the outer frame of W-S NICHE with the rest of W-S BOARD must be sealed by applying banding.

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

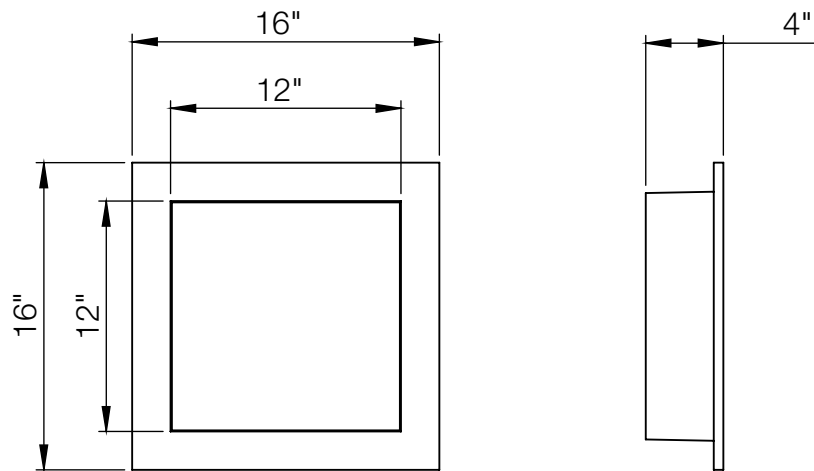
Use a class C2 tile adhesive cement according to EN 12004 or ISO 13007-1 applied with a 6 x 6 notched trowel.

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

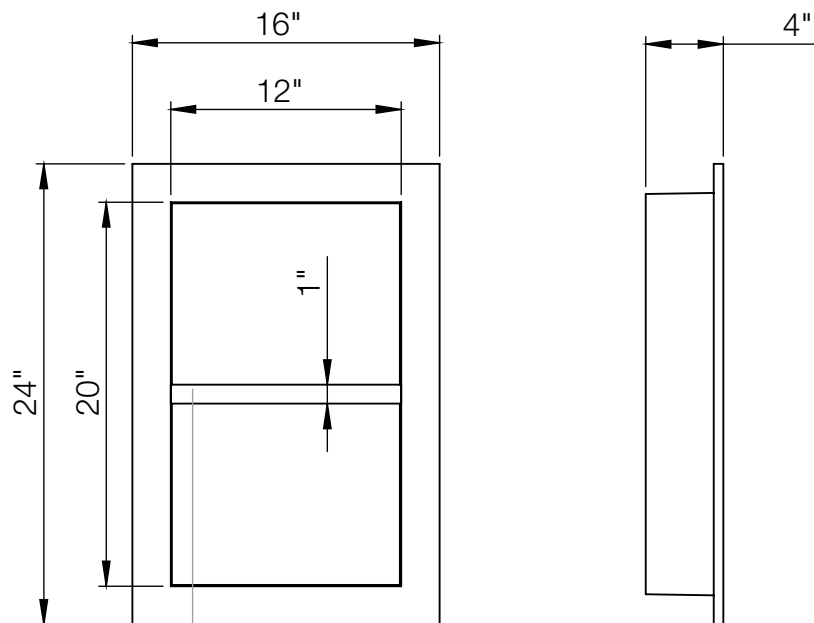
Tiles can be installed immediately using tile adhesive cement.

TECHNICAL DRAWINGS:

12" x 12"

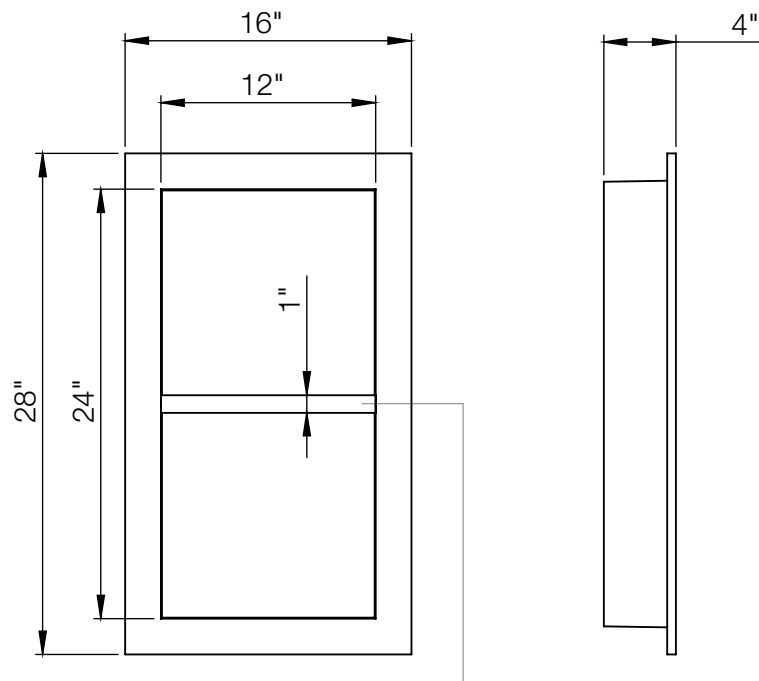


12" x 20"



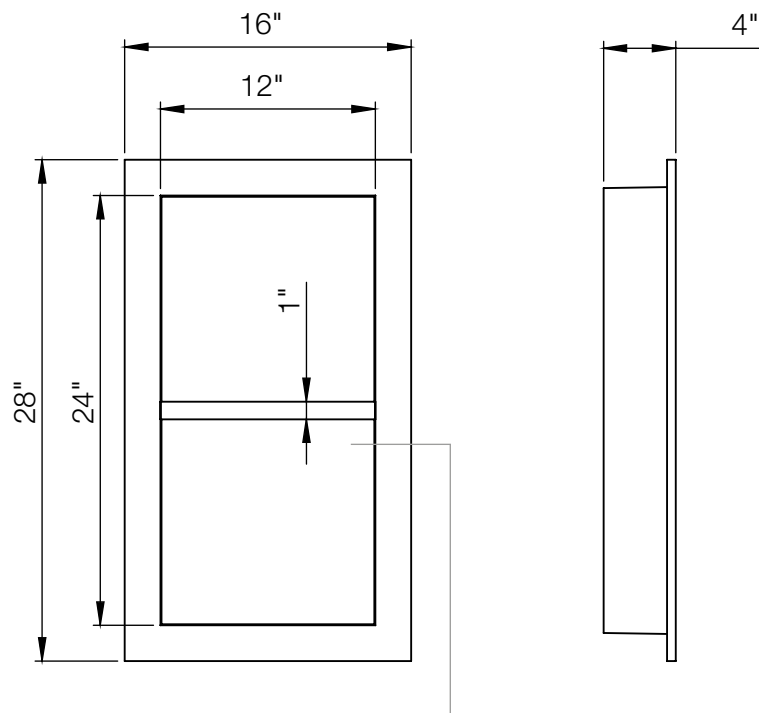
Adjustable shelf, it can be placed at the desired height.

12" x 24"



Adjustable shelf, it can be placed at the desired height.

12" x 28"



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