PRODUCT DATA SHEET

SnapMasons™ Decorative 3D Wall Panels

Faux brick and faux stone EPS foam wall panels for interior and exterior walls

SnapMasons wall panels (also known as styrofoam wall panels or foam brick and stone panels) have a lightweight expanded polystyrene core and a hardened acrylic-based surface, finished with UV-resistant paint and varnish. They go up with solvent-free adhesive and a long-blade utility knife, for decorative wall cladding indoors and out.

0.8 in	5.38 sq ft	-22 to 158 °F	UV resistant
relief depth	coverage per panel	service temperature	paint and varnish finish

Use, size and installation

Intended use	Decorative interior and exterior wall cladding
Finish	Decorative 3D design finishes (brick, stone and similar)
Panel size / depth	19.7 in × 39.4 in, 0.8 in relief
Coverage	5.38 sq ft per panel. Pack of 2: 10.76 sq ft. Pack of 9: 48.4 sq ft
Panels needed	Wall area (sq ft) × 1.1 ÷ 5.38, rounded up. Example: 100 sq ft = 21 panels, 3 adhesive tubes
Adhesive	SnapMasons High Tack Fast Cure Montage Adhesive (ProMast MS HT, solvent-free MS polymer). 15 dabs per panel, about 1 tube per 9 panels. Use a heavy-duty caulking gun
Installation	Clean, dry, flat, sound surface. Cut with a long-blade utility knife. Press and hold 20 seconds. Install at 41 °F to 95 °F
Painting	Water-based acrylic or latex paint only. No solvent-based paint or aerosol spray
Packaging	Durable cardboard box with corner profile. Stack up to 6 boxes. Store indoors, dry, away from heat and solvents

Performance

Service temperature	-22 °F to 158 °F
UV exposure	Resistant, non-degrading
Water transmission (EN 1062-3)	0.006 lb/ft²·h^0.5
Adhesion (EN 13494)	≥ 29 psi, failure occurs in the EPS (0.12 in coating, 1.4 lb/ft³ EPS)
Impact (EN 13497)	No damage at 7.4 ft·lbf (0.12 in coating, laid on 1.4 lb/ft³ EPS)
EPS density	1.9 lb/ft³ (30 kg/m³)
Thermal resistance	Approx. R-3.4 (0.61 m²·K/W) at 0.8 in (20 mm), calculated from the EPS core λD ≤ 0.033 W/(m·K)
Reaction to fire (EN 13501-1+A1)	Euroclass D-s3, d0: combustible material (scale runs A1 to F), smoke production not limited, no flaming droplets. ASTM E84 testing is in progress
Withstands	Weather, water, aggressive atmospheres, cracking, algae and fungus growth, very low and very high temperatures
Not resistant to	Solvents

Safety notes
EPS is combustible. Keep panels away from open flame and heat sources, and follow code clearances around fireplaces and stoves. Decorative use only, not load-bearing.

EN = European test standard. Values are typical laboratory results, provided for guidance. Actual performance depends on substrate, installation and site conditions.

SnapMasons™ EPS Wall Panel Technical Properties

EPS foam core and surface coating data for 3D faux brick and faux stone wall panels

Laboratory properties of the expanded polystyrene (EPS) core and the acrylic-based surface coating used in SnapMasons decorative 3D wall panels, also called styrofoam brick and stone panels. See page 1 for panel size, coverage and installation.

1.9 lb/ft³ EPS core density	**≥ 29 psi** compressive stress at 10%	**≤ 3 %** water absorption, 28-day immersion	**≤ 3 %** dimensional change, 158 °F, 90% RH

EPS foam core

Property	Test method	Value
Density		1.9 lb/ft³ (30 kg/m³)
Compressive stress at 10 % deformation	EN 826	≥ 29 psi
Tensile strength	EN 1607	≥ 29 psi
Bending strength	EN 12089	≥ 36.3 psi
Dimensional stability	EN 1604, 48 h at 158 °F, 90 % RH	≤ 3 %
Specific heat	EN 12524	0.35 BTU/lb·°F
Thermal conductivity (λD)	EN 12667, 50 °F mean temp.	≤ 0.033 W/(m·K) (0.229 BTU·in/h·ft²·°F)
Thermal resistance, 0.8 in (20 mm)	Calculated, RD = d ÷ λD	≈ 0.61 m²·K/W (R-3.4)
Water vapor diffusion resistance (μ)	EN 12086	40 to 100
Water absorption, total immersion 28 days	EN 12087	≤ 3 % by volume
Water absorption by diffusion	EN 12088	≤ 3 % by volume
Maximum service temperature	Finished panel	158 °F

Surface coating

Property	Test method	Value
Water absorption coefficient	DIN 52617	0.02 to 0.10 lb/ft²·h^0.5
Water transmission rate	EN 1062-3	0.006 lb/ft²·h^0.5
Peeling strength	AFNOR T 30706	> 5.5 lbf
Adhesion strength on EPS	EN 13494	≥ 29 psi, rupture occurs in the EPS (0.12 in coating, 1.4 lb/ft³ EPS)
Impact strength	EN 13497	No damage at 7.4 ft·lbf (0.12 in coating, laid on 1.4 lb/ft³ EPS)

Safety notes

EPS is combustible. Keep panels away from open flame and heat sources, and follow code clearances around fireplaces and stoves. Decorative use only, not load-bearing.

EN, DIN and AFNOR are European test standards. Core values are for the uncoated EPS (30 kg/m³ grade). Thermal resistance is calculated from the declared conductivity, not measured on the finished panel. Values are typical laboratory results, provided for guidance. Actual performance depends on substrate, installation and site conditions.