

## Technical Properties ■ wedi Systems

Technical Properties / Performance	Product Standard / Test Method	wedi® Building Panel	wedi® Vapor 85 Panel	wedi Fundo® Shower System
Standard Specification for Rigid, Cellular Polystyrene	ASTM C 578 *	Compliant	Compliant	Compliant
American National Standard Specifications for Test Methods and Specifications for Foam Core Backer Boards	ANSI A118.18	Compliant	Compliant	Compliant
Tileable Shower Receptors And Shower Kits	IAPMO PS106	N/A, but tested and compliant within shower system	N/A	Compliant
R-Value	ASTM C518	4.3hr ft. 2 F/Btu/in (R Value for 1" wedi = 4.3)	4.3hr ft. 2 F/Btu/in (R Value for 1" wedi = 4.3)	4.3hr ft. 2 F/Btu/in (R Value for 1" wedi = 4.3)
Tensile Strength	ASTM D1623-09	76 psi	N/A	N/A
Shear Bond Strength	ANSI A118.18 Minimum performance requirement 50 psi	7 day Shear Strength Dry: 184 psi. 7 day Shear Strength Wet: 122 psi. 4 week Shear Strength Dry: 216 psi. 12 week Shear Strength Dry: 217 psi. 100 day Shear Strength Wet: 201 psi.	7 day Shear Strength Dry: 72.4 psi. 7 day Shear Strength Wet: 71.4 psi.	N/A, see wedi® Building Panel and IAPMO PS106 compliance
Waterproof	ANSI A118.18; ANSI 118.10 Section 4.5	Passed	Passed	Passed
Waterproofness of Assembly	ANSI A118.18, IAPMO PS106	Passed	Passed	Passed
Water Vapor Transmission	ASTM E 96-2016	N/A	Permeance/Perms 0.03 and WVT (grains/h x ft²) 0.05	N/A
Capillarity		Zero	Zero	Zero
Fungus / Bacteria Resistance	ANSI A118.18, IAPMO PS106	Passed, Zero Growth	Passed, Zero Growth	Passed, Zero Growth
Flexural Strength	ANSI A118.18; ASTM C203 Minimum Performance requirement 212 psi.	973 psi.	1035 psi.	N/A
Robinson Floor Test	ANSI A118.18; ASTM C627	Heavy duty commercial use, passed	N/A	N/A
Fastener Pull Through	ANSI A118.18; ASTM D1037 Section 15 Minimum performance requirement 75 lb.	Wet 131.8 lb./Dry 196.2 lb.	Wet 240 lb./Dry 226 lb.	N/A
Temperature Limits		-58 / +165° F	-58 / +120° F	-58 / +165° F
Accelerated Aging	AC 71 - 25 Cycles	No disintegration; Passed	N/A	N/A
Linear expansion with change in moisture content	ANSI A118.18; ASTM D1037-12, Section 24 Minimum Requirement < 0.2%	Passed, 0.04%	Passed, 0.04%	Passed, 0.04%
Surface Burning Characteristics	ASTM E84-16 (NFPA 255, ANSI / UL 723, UBC 8-1); ANSI A118.18	Flame Spread Index (FSI): 20 Smoke Developed Index (SDI): 70 Classification: Class A Tested as is without tile finish	Flame Spread Index (FSI): 0 Smoke Developed Index (SDI): 25 Classification: Class A Tested with surface covered with 12x12x 3/8 in. porcelain tile and 1/8 in. grout lines.	N/A, see wedi® Building Panel
Load bearing capability; weight of tile and setting materials/ sft		On walls up to 23 lb/sft. On ceilings up to 15 lb/ sft.	On walls up to 14 lb/ sft. On ceilings up to 10 lb/ sft.	N/A, see wedi® Building Panel
Floor and Trench Drain Compliance	ASME A112.18.2	N/A	N/A	Passed, Compliant (ICC PMG 1189)
Seam Strength	ASTM D751-11 (requirement 8 lb/ in width)	Passed, 36.4 lbs	Passed, 23.2 lbs	N/A
Squareness	ANSI A118.18 requirement deviation < 1/32 in./ft length of product	Passed, 0 inches	Passed, 0 inches	N/A
Thickness	ANSI A118.18 requirement deviation < +/-0.04 in.	Passed	Passed	N/A

Weight for wedi® Building Panels	Width	Length	Thickness	Weight
wedi® Building Panel	48 in.	60 in.	1/4 in.	12 lb.
wedi® Building Panel	48 in.	60 in.	1/2 in.	13 lb.
wedi® Vapor 85 Panel	48 in.	96 in.	1/2 in.	27 lb.

## Technical Data Highlights

Approvals & Certificates				
Approvals and certificates applicable to entire product system or components as required	City of New York, MEA 912-52-SM	Fundo Shower Systems & Building Panels: ICC PMG 1189 (for USA and Canada)	Meets all applicable ANSI/ISO Standards incl. ANSI A118.18, ANSI A118.10, IAPMO PS106	TCNA handbook recognized for wall, floor, countertop, & more applications
Contact us to obtain approval & compliance information related to state or area specific building code.	City of Los Angeles Approved. Please see ICC PMG report.	DIN EN ISO 9001		CE marked
Environmental Consideration				
Contains no unbonded fire retardants like HBCD (Hexabromocyclododecane) which has been banned in Canada and is a toxic substance of high concern with the US EPA. Contains no formaldehyde.				
Highlights				
Blue XPS core is 100% waterproof and remains fully functional even after partial damage- specially engineered for 100% consistency of its closed-cell structure. The particular cell structure design ensures compression strength where it is needed, internal waterproofness and an easy cut experience.				
wedi product surfaces include specially designed and manufactured fiberglass mesh, fully embedded in the coating. It won't break, and it offers a structure with texture for perfect tile adhesion. The strong backing properties of the panels start with the mesh surface coating.				
wedi's foam-based products are made with extrusion agents in compliance with the Montreal Protocol, helping to reduce Global Warming Potential (GWP). The foam-based products are made from 25% recycled content. wedi recycles all foam waste occurring in its manufacturing facilities				
wedi does not compromise safety or composition and provides safe fire behavior and protection. wedi uses consistent levels of fully polymeric bonded flame retardant (PFR) that does not release over time. wedi products meet international standards such as REACH and the UN's Stockholm Convention Protocols. The foam is precisely milled and cut to produce tile underlayment surfaces with absolutely perfect dimensions. All milling waste is recycled. wedi joint sealants are Polyisocyanates and PVC free and are zero VOC sealants.				

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