

Technical Properties ■ wedi Systems

Properties & Test Methods Value (wedi® Building Panel and Fundo Shower System Components)		
Standard Specification for Rigid, Cellular Polystyrene	ASTM C 578 *	Compliant
Thermal Conductivity *	75°F (25°C) - ASTM C518	0.23 Bbtu in/hr F
R-Value *	75°F (25°) - ASTM C518	4.3hr ft. 2 F/Btu/in (R Value for 1" wedi = 4.3)
Tensile Strength ***	ASTM D1623-09	76 psi
Shear Bond Strength *	ANSI 118.10-1999 Section 5 Minimum performance requirement 50 psi	7 day Shear Strength Dry: 159 psi 7 day Shear Strength Wet: 112 psi 4 week Shear Strength Dry: 216 psi 12 week Shear Strength Dry: 217 psi 100 day Shear Strength Wet: 201 psi
Waterproof ***	ASTM D4068 / ANSI A118.10-1999	Passed
Waterproofness of Assembly ***	ASTM E331	Passed, wedi Fundo Kit assembly (complete system)
Water Vapor Transmission ****	ASTM E 96-2016	Permeance/Perms 0.03 and WVT (grains/h x ft²) 0.05
Capillarity ***		0
Fungus / Bacteria Resistance ***	ASTM G21	Passed, No Growth
Flexural Strength *	ASTM C947	627 psi
Robinson Floor Test *	ASTM C627	Heavy duty commercial use, passed *
Fastener Pull Through *	ASTM C473	Wet 131.8 lb./Dry 196.2 lb.
Temperature Limits *		-58 / +165° F
Freeze & Thaw *	ASTM C666 - 25 Cycles	No disintegration/change; Passed
Accelerated Aging *	AC 71 - 25 Cycles	No disintegration; Passed
Linear Variation ***	AC 159/ASTM 1037-39	Passed, less than 0.07%
Surface Burning Characteristics *	ASTM E84-16 (NFPA 255, ANSI / UL 723, UBC 8-1). Tested as required without tile on Building Panel surface	Flame Spread Index (FSI): 20 Smoke Developed Index (SDI) : 70 Classification: Class A
Floor and Trench Drain Compliance **	ASME A112.18.2	Passed, Compliant (ICC PMG 1189)
Seam Strength*	ASTM D751-11 (requirement 8 lb/in width)	Passed, 36.4 lbs

* wedi® Building Panel tested

*** Entire wedi shower system tested

* Consult wedi for proper subfloor, tile, setting materials

** wedi Fundo® Floor Systems tested

**** "Vapor 85 assembly incl. seams". Test standard is ASTM E 96 Method E at 100 F* and 90 % R.H.

choice to design heavy duty commercial use floor surfaces.

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

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 118.18, ANSI 11.10, IAPMO PS106	TCNA handbook recognized for wall, floor, countertop, & more applications
	City of Los Angeles Approved. Please see ICC PMG report.	DIN EN ISO 9001	Compliant	CE marked
	Diverse State Approvals			

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.

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.