

## 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.				

## ICC-PMG 1189 Report ■ National Building Code Compliances

WEDI FUNDO® SHOWER SYSTEM AND TILE BACKER BOARD UNDERLAYMENTS	
CSI	DIVISION: 22 00 00 – PLUMBING. Section: 22 40 00 – Plumbing Fixtures (Shower System Kit)
Product certification system	The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.
Product	wedi Fundo® Shower System and Tile Backer Board Underlayments
Listee	wedi Corporation ■ 1160 Pierson Drive, Batavia, IL 60510. www.wedicorp.com
Compliance with the following codes	2024, 2021, 2018, 2015, 2012 and 2009 International Plumbing Code® (IPC) 2024, 2021, 2018, 2015, 2012 and 2009 International Residential Code® (IRC) 2024, 2021, 2018, 2015, 2012 and 2009 International Building Code® (IBC) 2024, 2021, 2018, 2015, 2012 and 2009 National Standard Plumbing Code® (NSPC) 2024, 2021, 2018, 2015, 2012 and 2009 Uniform Plumbing Code® (UPC)* 2022, 2019, 2016 and 2013 California Plumbing Code (CPC)* 2023, 2020 and 2017 City of Los Angeles Plumbing Code 2020, 2015, 2010 and 2005 National Plumbing Code of Canada** * Uniform Plumbing Code is a copyrighted publication of the International Association of Plumbing and Mechanical Officials ** National Plumbing Code of Canada is a copyrighted publication of National Research Council Canada
Compliance with the following standards	ANSI A118.10-2023, Load Bearing, Bonded, Waterproof Membranes for Thinset Ceramic Tile and Dimension Stone Installations ANSITCNA A118.18-2023, Test Methods and Specifications for Foam Core Backer Boards ASME A112.18.2/CSA B125.2-2020, Plumbing Waste Fittings ASTM E 96-2024, Standard Test Methods for Gravimetric Determination of Water Vapor Transmission of Materials ASTM E 331-00(R23), ASTM E331-00(2016) Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference ICC-ES EG 159, Evaluation Guideline for Composite Backer Board (Approved Dec 2004) ICC-ES AC 71, Acceptance Criteria for Foam Plastic Sheathing Panels Used as Water Resistive Barriers (Approved Feb 2003, Ed Revised Nov 2018) IAPMO PS 46-2012, Field Fabricated Tiling Kits IAPMO PS 106-2015e1, Tileable Shower Receptors and Shower Kits
Identification	Packaging label for each system shall include the manufacturer's name or trademark as well as the ICC-ES PMG certification mark.
Installation	The wedi Fundo® Shower Systems shall be installed in accordance with the manufacturer's published instructions and the applicable code(s). The wedi Fundo® Shower System components shall be assembled and can be customized in the field. When provided drains must comply with ASME A112.18.2/CSA B125.2 as applicable. The wedi pre-sloped, ready-to-tile shower bases may be used in lieu of a CSA B45.5/ IAPMO Z124 plastic shower receptors or any liner based shower installations. The wedi drain units do not require weep holes.
Listed Models and Characteristics	The wedi Fundo® Shower Systems consist of the following: a) The wedi Fundo® shower bases are waterproof, pre-sloped, ready-to-tile floor units. The shower bases with linear and point drainage include factory sealed parts integrated into the floor bases and can be installed with or without curbs in recess, barrier free installations. b) The wedi® Building Panels are inherently waterproof and are engineered as a general purpose backer board and underlayment for tile. They also serve as an integral part of the wedi Fundo® shower system and consist of a rigid extruded polystyrene foam covered on both sides with a cement-based resin surface and reinforcing mesh for durability and bond performance with tile adhesives. c) The wedi® Vapor 85 Building Panel which may be used with or without wedi Fundo® shower systems, is a specialized building panel featuring the original wedi® Building Panel but with its vapor exposed side protected by wedi® Subliner Dry. The wedi® Vapor 85 was tested to ASTM E96 Procedure E as a complete assembly with the wedi® 620 joint sealing membrane and wedi® Subliner Dry sealing tape over seams and fastener points and was found to have a perm rating of 0.03 perms which meets the permeance rating requirement of 0.5 perm or less and can be used in continuous use steam shower/room applications without additional vapor retarders in accordance with Tile Council of North America (TCNA) 2014 Handbook for Ceramic Glass and Stone Tile Installation (SR613-14 and SR614-14). d) The wedi Fundo® Shower System accessories which may include the following waterproof components: wedi® pre-sloped curbs, wedi® niches, wedi seats and benches, wedi® shower base extensions and ramps, wedi® fasteners, wedi® drain cover and drain cover frames, wedi® joint sealant, wedi® Fundo Click and Seal® drain, wedi® Subliner Dry sheet waterproofing membrane system and tapes, wedi® Subliner Dry Tub Sealing Tape or wedi® Curbless Shower Recess Kit. The wedi Fundo® family line includes the following: wedi Fundo® (shower bases with a point drain and for primary use with curbs), wedi Fundo® Linear (shower bases with integrated linear drain and featuring single slope or 4-way slope designs), and wedi Fundo® Curbless (shower bases for curbless, floor-level entry showers with a point drain). The wedi Fundo® Shower System components and assembly for shower installations were proven to be waterproof, water-resistant, and mold resistant when tested in accordance with A118.10-2014 and ASTM E331. The wedi® Drains have found to comply with with ASME A112.18.2/CSA B125.2 and do not require weep holes.
Conditions of Listing	1. The wedi Fundo® Shower Systems, Building Panels and System Accessories shall be installed in accordance with the manufacturer's published instructions and the applicable code(s). 2. The wedi Fundo® Shower Systems are under a quality control program with annual surveillance inspections by ICC-ES