## **Technical Properties ■ wedi Systems**

Thermal Conductivity* 75°F (25°C) - ASTM C518 0.23 Bbtu in/hr F  R-Value* 75°F (25°C) - 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 Valve Shear Strength Dry: 159 psi 1 veek Shear Strength Dry: 216 psi 1 veek Shear Strength Dry: 217 psi 100 day Shear Strength Wet: 201 psi  Water Proof *** ASTM D4068 / ANSI A118.10-1999 Passed  Water Vapor Transmission**** ASTM E331 Passed, wedi Fundo Kit assembly (complete system)  Water Vapor Transmission**** ASTM E 96-2016 Permeance / Perms 0.03 and WVT (grains/n x ft²) 0.05  Capillarity *** 0  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/change; Passed  Linear Variation *** ASTM C67PPA 255, ANSI / UL 723, UBC  8-1). Tested as required without tile on Building Panel surface  Floor and Trench Drain Compliance ** ASME A112.18.2 Passed, Compliant (ICC PMG 1189)	Properties & Test Methods Value (wedi® Building Panel and Fundo Shower System Components)						
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: 217 psi 100 day Shear Strength Wet: 201 psi 12 week Shear Strength Wet: 201 psi 12 week Shear Strength Wet: 201 psi 100 day Shear Strength Wet: 201 psi	Standard Specification for Rigid, Cellular Polystyrene	ASTM C 578 *	Compliant				
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: 217 psi 100 day Shear Strength Wet: 201 psi 12 week Shear Strength Wet: 201 psi 12 week Shear Strength Wet: 201 psi 100 day Shear Strength Wet: 201 psi							
Tensile Strength ***  ASTM D1623-09  76 psi  ANSI 118.10-1999 Section 5 Minimum performance requirement 50 psi ANSI 118.10-1999 Section 5 Minimum performance requirement 50 psi Avek Shear Strength Dry: 216 psi 4 week Shear Strength Dry: 217 psi 100 day Shear Strength Wet: 112 psi 4 week Shear Strength Wet: 211 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 * Freeze & Thaw * ASTM C666 - 25 Cycles No disintegration/change; Passed Accelerated Aging * AC 71 - 25 Cycles No disintegration/change; Passed Linear Variation *** ASTM E84-16 (NFPA 255, ANSI / UL 723, UBC 8-1). Tested as required without tile on Building Panel surface Floor and Trench Drain Compliance ** ASME A112.18.2 Passed, Compliant (ICC PMG 1189)	Thermal Conductivity *	75°F (25°C) - ASTM C518	0.23 Bbtu in/hr F				
ANSI 118.10-1999 Section 5 Minimum performance requirement 50 psi ANSI 118.10-1999 Section 5 Minimum performance requirement 50 psi A dy Shear Strength Dry: 216 psi 1 day Shear Strength Dry: 216 psi 1 day Shear Strength Dry: 217 psi 100 day Shear Strength Dry: 217 psi 100 day Shear Strength Dry: 217 psi 100 day Shear Strength Wet: 201 psi  Waterproof***  ASTM E 96-2016  Permeance/Perms 0.03 and WVT (grains/h x ft²) 0.05  Capillarity ***  O  Fungus / Bacteria Resistance *** ASTM G21 Passed, No Growth Flexural Strength *  ASTM C947 ASTM C947 ASTM C947 ASTM C627 Heavy duty commercial use, passed *  Resistance Full Through ASTM C473 Wet 131.8 lb/Dry 196.2 lb.  Temperature Limits ASTM ASTM C666 - 25 Cycles ACCelerated Aging AASTM ACCELERATION ACCELERATIO	R-Value *	75°F (25°) - ASTM C518	4.3hr ft. 2 F/Btu/in (R Value for 1" wedi = 4.3)				
Minimum performance requirement 50 psi 4 week Shear Strength Wet: 112 psi 4 week Shear Strength Dry: 216 psi 12 week Shear Strength Dry: 216 psi 12 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 E 96-2016  Permeance/Perms 0.03 and WVT (grains/n x ft²) 0.05  Capillarity ***  O  Fungus / Bacteria Resistance ***  ASTM G21  Passed, No Growth  Flexural Strength *  ASTM C947  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 *  AC 71 - 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%  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)	Tensile Strength ***	ASTM D1623-09	76 psi				
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  Robinson Floor Test *  ASTM C627  Fastener Pull Through *  ASTM C473  Wet 131.8 lb./Dry 196.2 lb.  Temperature Limits *  Freeze & Thaw *  ACTM C666 - 25 Cycles  ACT 1 - 25 Cycles  No disintegration/change; Passed  Linear Variation ***  ASTM E34-16 (NFPA 255, ANSI / UL 723, UBC 8-1). Tested as required without tile on Building Panel surface  Floor and Trench Drain Compliance **  ASTM C189-2016  Permeance/Perms 0.03 and WVT (grains/h x ft²) 0.05  Evermeance/Perms 0.05  Everm	Shear Bond Strength *		7 day Shear Strength Wet: 112 psi 4 week Shear Strength Dry: 216 psi 12 week Shear Strength Dry: 217 psi				
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  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*  Freeze & Thaw*  ASTM C666 - 25 Cycles  No disintegration/change; Passed  AC 71 - 25 Cycles  No disintegration; Passed  Linear Variation ***  ASTM E84-16 (NFPA 255, ANSI / UL 723, UBC 8-1). Tested as required without tile on Building Panel surface  Floor and Trench Drain Compliance **  ASTM EA112.18.2  Passed, Compliant (ICC PMG 1189)	Waterproof***	ASTM D4068 / ANSI A118.10-1999	Passed				
Capillarity ***  Capillarity ***  Capillarity ***  Capillarity ***  ASTM G21  Passed, No Growth  Flexural Strength *  ASTM C947  ASTM C947  Fastener Pull Through *  Fastener Pull Through *  ASTM C473  Wet 131.8 lb./Dry 196.2 lb.  Temperature Limits *  Freeze & Thaw *  ASTM C666 - 25 Cycles  AC 71 - 25 Cycles  No disintegration/change; Passed  AC 27 - 25 Cycles  No disintegration; Passed  Linear Variation ***  ASTM E84-16 (NFPA 255, ANSI / UL 723, UBC 8-1). Tested as required without tile on Building Panel surface  Floor and Trench Drain Compliance **  ASTM EAL12.18.2  WVT (grains/h x ft²) 0.05  Passed, No Growth  627 psi  Passed, No Growth  627 psi  ASTM E84-70  ASTM C667  ASTM C697  Heavy duty commercial use, passed *  Wet 131.8 lb./Dry 196.2 lb.  -58 / +165° F  Freeze & Thaw *  ASTM C666 - 25 Cycles  No disintegration/change; Passed  No disintegration/change; Passed  Flame Spread Index (FSI): 20  Smoke Developed Index (SDI): 70  Classification: Class A  Floor and Trench Drain Compliance **	Waterproofness of Assembly ***	ASTM E331	Passed, wedi Fundo Kit assembly (complete system)				
Fungus / Bacteria Resistance ***  ASTM G21  Passed, No Growth  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 *  Freeze & Thaw *  ASTM C666 - 25 Cycles  No disintegration/change; Passed  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  Floor and Trench Drain Compliance **  ASME A112.18.2  Passed, Compliant (ICC PMG 1189)	Water Vapor Transmission****	ASTM E 96-2016					
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  Floor and Trench Drain Compliance ** ASME A112.18.2 Passed, Compliant (ICC PMG 1189)	Capillarity ***		0				
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  Floor and Trench Drain Compliance ** ASME A112.18.2 Passed, Compliant (ICC PMG 1189)	Fungus / Bacteria Resistance ***	ASTM G21	Passed, No Growth				
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  Floor and Trench Drain Compliance ** ASME A112.18.2 Passed, Compliant (ICC PMG 1189)	Flexural Strength *	ASTM C947	627 psi				
Temperature Limits *  -58 / +165° F  Freeze & Thaw *  ASTM C666 - 25 Cycles  No disintegration/change; Passed  Accelerated Aging *  AC 71 - 25 Cycles  No disintegration; Passed  No disintegration; Passed  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  Floor and Trench Drain Compliance **  ASME A112.18.2  Passed, Compliant (ICC PMG 1189)	Robinson Floor Test *	ASTM C627	Heavy duty commercial use, passed *				
Freeze & Thaw*  ASTM C666 - 25 Cycles  No disintegration/change; Passed  Accelerated Aging *  AC 71 - 25 Cycles  No disintegration; Passed  No disintegration; Passed  No disintegration; Passed  Flame Spread Index (FSI): 20  Smoke Developed Index (SDI): 70  Classification: Class A  Floor and Trench Drain Compliance **  ASTM E84-16 (NFPA 255, ANSI / UL 723, UBC 8-1). Tested as required without tile on Building Panel surface  ASME A112.18.2  Passed, Compliant (ICC PMG 1189)	Fastener Pull Through *	ASTM C473	Wet 131.8 lb./Dry 196.2 lb.				
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 Surface Passed, Compliant (ICC PMG 1189)  Floor and Trench Drain Compliance ** ASME A112.18.2 Passed, Compliant (ICC PMG 1189)	Temperature Limits *		-58 / +165° F				
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  Floor and Trench Drain Compliance **  ASME A112.18.2  Passed, Compliant (ICC PMG 1189)	Freeze & Thaw*	ASTM C666 - 25 Cycles	No disintegration/change; Passed				
Surface Burning Characteristics *  ASTM E84-16 (NFPA 255, ANSI / UL 723, UBC 8-1). Tested as required without tile on Building Panel surface  Floor and Trench Drain Compliance **  ASME A112.18.2  Flame Spread Index (FSI): 20 Smoke Developed Index (SDI): 70 Classification: Class A  Passed, Compliant (ICC PMG 1189)	Accelerated Aging *	AC 71 - 25 Cycles	No disintegration; Passed				
8-1). Tested as required without tile on Building Panel surface  Smoke Developed Index (SDI): 70 Classification: Class A  Floor and Trench Drain Compliance**  ASME A112.18.2  Passed, Compliant (ICC PMG 1189)	Linear Variation ***	AC 159/ASTM 1037-39	Passed, less than 0.07%				
	Surface Burning Characteristics *	8-1). Tested as required without tile on Build-	Smoke Developed Index (SDI): 70				
Seam Strength* ASTM D751-11 (requirement 8 lb/in width) Passed, 36.4 lbs	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				

<sup>\*</sup> wedi® Building Panel tested

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 s urfaces with absolutely perfect dimensions. All milling waste is recycled. wedi joint sealants are Polyisocyanates and PVC free and are zero VOC sealants.

<sup>\*\*\*</sup> Entire wedi shower system tested

<sup>\*</sup> Consult wedi for proper subfloor, tile, setting materials

<sup>\*\*\*\* &</sup>quot;Vapor 85 assembly incl. seams". Test standard is ASTM E 96 Method E at 100 F\* and 90 % R.H.