

# PORCELANOSA *FACADES*

## PORCELAIN FACADE SYSTEM PRODUCT PERFORMANCE

FEBRUARY 2018

### PHYSICAL PROPERTIES

TEST NAME	TEST PROCEDURE	RESULTS
Nominal Size	ASTM C499	0.10%
Warpage Edge	ASTM C485	0.02 in
Warpage Diagonal	ASTM C485	0.03 in
Water Absorption	ASTM C373	0.10%
Breaking Strength	ASTM C648	804 lbf
Freeze-Thaw	ASTM C1026	No Cracking
Flexural Strength - Dry	ASTM C880	5795 psi
Flexural Strength - Wet	ASTM C880	5300 psi
Drainage Rate (for Rainscreen System)	ASTM E2273	98%
Gravity Load Resistance	ASTM C1354	485 lbf
In-plane Horizontal Shear Load Resistance	ASTM C1354	708 lbf
Anchor to Porcelain Tile Load Resistance	ASTM C1354	87 lb/tile
Salt Fog and Salt Spray Resistance	ASTM B117	No visible signs of corrosion or red rust

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### FIRE RESISTANCE

TEST NAME	TEST PROCEDURE	RESULTS	ASSEMBLY DETAILS
Fire Propagation for Exterior Non-Load Bearing Wall Assemblies Containing Combustible Components	NFPA 285	Pass, on all test requirements	5/8" gypsum interior, 16-gage steel studs at 16" o.c., 5/8" gypsum sheathing, 2" of 4-lb Roxul comfort batt mineral wool.
Assembly Fire Resistance Test	ASTM E119	60 minute rating, pass	5/8" gypsum interior, 16-gage steel studs at 16" o.c., 5/8" gypsum sheathing, 2" of 4-lb Roxul comfort batt mineral wool.
Surface Burning Characteristics (Tile only)	ASTM E84	FSI 10, SDI 15, Class A Rating	N/A

### WIND RESISTANCE

TEST NAME	TEST PROCEDURE	RESULTS	ASSEMBLY DETAILS
Non-Impact Wind Resistance	ASTM E330	-62 psf	5/8" gypsum interior, 16-gage steel studs at 16" o.c., 5/8" gypsum sheathing, 2" of 4-lb Roxul comfort batt mineral wool.
Impact Resistance Using Uniform Static Air Pressure	TAS 202/203	-80 psf	5/8" gypsum interior, 16-gage steel studs at 16" o.c., 5/8" gypsum sheathing, 2" of 4-lb Roxul comfort batt mineral wool.

### THERMAL RESISTANCE

FRAMING TYPE	EFFECTIVE R-VALUE	U-FACTOR	ASSEMBLY DETAILS
Wood Studs	26.3	0.038	Typical buildup of 4.5", R-13 Batt between wood or metal studs, 2" mineral wool insulation behind porcelain panels, and standard substructure spacing per ESR-3343
Metal Studs	16.5	0.061	
Solid Wall	9.1	0.11	