










Sizes		12"x22" ± 8.5mm		3 1/8"x12 3/8" ± 8.5mm				
		Porcelain Tile Specification						
		PROPERTY	ASTM TEST METHOD	Calibrated		Rectified		Liberty
				Minimum	Maximum	Minimum	Maximum	
REGULARITY CHARACTERISTICS		Nominal Size	ASTM C499	-2.00%	2.00%	-2.00%	2.00%	Compliant
		Caliber Range (Variation from average facial dimension of sample)		-0.30% or -0.04 in (-1.0 mm) (*)	0.30% or 0.04 in (1.0 mm) (*)	-0.25% or -0.03 in (-0.8 mm) (*)	0.25% or 0.03 in (0.8 mm) (*)	Compliant
		Thickness <sup>(1)</sup>		N/A	Range: 0.031 in (0.79 mm)	N/A	Range: 0.031 in (0.79 mm)	Compliant
		Wedging	ASTM C502	-0.40% or -0.05 in (-1.3 mm) (*)	0.40% or 0.05 in (-1.3 mm) (*)	-0.25% or -0.03 in (-0.8 mm) (*)	0.25% or 0.03 in (0.8 mm) (*)	Compliant
		Warpage Edge	ASTM C485	-0.30% or -0.04 in (-1.0 mm) (*)	-0.30% or -0.04 in (-1.0 mm) (*)	0.40% or 0.05 in (1.3 mm) (*)	0.40% or 0.05 in (1.3 mm) <sup>(2)</sup> or 1.8 mm <sup>(3)</sup> (*)	Compliant
Warpage Diagonal	-0.30% or -0.05 in (-1.3 mm) (*)	0.40% or 0.07 in (1.8 mm) (*)		-0.30% or -0.05 in (-1.3 mm) (*)	0.40% or 0.07 in (1.8 mm) (*)	Compliant		
		Wall Tiles						
STRUCTURAL CHARACTERISTICS		Water Absorption	ASTM C373	≥ 10.0%				10% - 20%
BULK MECHANICAL CHARACTERISTICS		Breaking strength	ASTM C648	Average ≥ 125 lbf. (1.11 kN) Individual ≥ 100 lbf. (0.44 kN)				≥175lbf. avg
PHISICAL PROPERTIES		Bond Strength	ASTM C482	≥ 50 psi (0.34 Mpa)				≥100 psi
THERMAL AND IGROMETRIC CHARACTERISTICS		Crazing Resistance	ASTM C424	Pass				Resistant
		Thermal Shock Resistance	ASTM C484	Pass				
CHEMICAL CHARACTERISTICS		Chemical Resistance	ASTM C650	As reported				Unaffected
		Stain Resistance	ASTM C1378	As reported				Unaffected

(\*) Whichever is less  
 (1) May not apply to textured surfaces or tiles with uneven back patterns.  
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