



Sizes		23% ¹ "x23% ¹ " ±9mm		11¾"x23% ¹ " ±9mm					
	PROPERTY	ASTM TEST METHOD	Porcelain Tile Specification				Native		
			Calibrated		Rectified				
			Minimum	Maximum	Minimum	Maximum			
REGULARITY CHARACTERISTICS		Nominal Size	-3.00%	3.00%	-3.00%	2.00%	Compliant	Compliant	
		Caliber Range (Variation from average facial dimension of sample)	-0.50% or -0.08 in (-2.0 mm) (*)	0.50% or 0.08 in (2.0 mm) (*)	-0.25% or -0.03 in (-0.8 mm) (*)	0.25% or 0.03 in (0.8 mm) (*)	Compliant	Compliant	
		Thickness ⁽¹⁾	N/A	Range: 0.40 in (1.02 mm)	N/A	Range: 0.40 in (1.02 mm)	Compliant	Compliant	
		Wedging	ASTM C502	-0.50% or -0.08 in (-2.0 mm) (*)	0.50% or 0.08 in (2.0 mm) (*)	-0.25% or -0.03 in (-0.8 mm) (*)	0.25% or 0.03 in (0.8 mm) (*)	Compliant	Compliant
		Warpage Edge	ASTM C485	-0.75% or -0.09 in (-2.3 mm) (*)	0.75% or 0.09 in (2.3 mm) (*)	-0.40% or -0.05 in (-1.3 mm) ⁽²⁾ or -1.8 mm ⁽³⁾ (*)	0.40% or 0.05 in (1.3 mm) ⁽²⁾ or 1.8 mm ⁽³⁾ (*)	Compliant	Compliant
		Warpage Diagonal		-0.50% or -0.08 in (-2.0 mm) (*)	0.50% or 0.08 in (2.0 mm) (*)	-0.40% or -0.07 in (-1.8 mm) (*)	0.40% or 0.07 in (1.8 mm) (*)	Compliant	Compliant
All Porcelain Tiles									
STRUCTURAL CHARACTERISTICS		Water Absorption	ASTM C373	≤ 0.5%			≤0.5%	≤0.5%	
BULK MECHANICAL CHARACTERISTICS		Breaking strenght	ASTM C648	Average ≥ 250 lbf. (1.11 kN) Individual ≥ 225 lbf. (1.00 kN)			≥350lbf. avg	≥350lbf. avg	
PHISICAL PROPERTIES		Bond Strength	ASTM C482	≥ 50 psi (0.34 Mpa)			≥100 psi	≥100 psi	
THERMAL AND IGROMETRIC CHARACTERISTICS		Resistance to Freeze/Thaw Cycling	ASTM C1026	As Reported			Resistant	Resistant	
CHEMICAL CHARACTERISTICS		Chemical Resistance	ASTM C650	As Reported			Unaffected	Unaffected	
		Stain Resistance	ASTM C1378	As Reported			Unaffected	Unaffected	
SAFETY CHARACTERISTICS		Dynamic coefficient of friction	DCOF	Requires a minimum value of 0.42 for commercial areas that are likely to be wet			> 0.42 Wet	> 0.42 Wet	

(*) Whichever is less
 (1) May not apply to textured surfaces or tiles with uneven back patterns.
 (2) Whichever is less, for tiles up to 24"x24" (610 mm x 610 mm).
 (3) Applies to tiles larger than 24"x24" (610 mm x 610 mm).
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