



Sizes	23 ⁵ / ₈ "x47 ¹ / ₄ " ±9mm	11 ¹ / ₄ "x23 ⁵ / ₈ " ±9mm	9 ⁷ / ₈ "x8 ¹ / ₂ " ±9mm	7 ⁷ / ₈ "x7 ⁷ / ₈ " ±9mm
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	PROPERTY	ASTM TEST METHOD	Porcelain Tile Specification				Cove	
			Calibrated		Rectified			
			Minimum	Maximum	Minimum	Maximum		
REGULARITY CHARACTERISTICS	 Nominal Size Caliber Range (Variation from average facial dimension of sample) Thickness ⁽¹⁾	ASTM C499	-3.00%	3.00%	-3.00%	2.00%	Compliant	Compliant
			-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
			N/A	Range: 0.40 in (1.02 mm)	N/A	Range: 0.40 in (1.02 mm)	Compliant	Compliant
	 Wedging Warpage Edge Warpage Diagonal	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
		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
			-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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