



Technical Characteristics

		Porcelain Tile Specification				
Characteristic	Test Method	Calibrated		Rectified		Value
		Minimum	Maximum	Minimum	Maximum	
Nominal Size	ASTM C499	- 3%	+ 3%	- 3%	+ 2%	Compliant
Caliber Range		- 0.5% or - 0.08 in	+ 0.5% or + 0.08 in	- 0.25% or - 0.03 in	+ 0.25% or + 0.03 in	Compliant
Thickness		N/A	Range: 0.40 in	N/A	Range: 0.40 in	Compliant
Wedging	ASTM C502	- 0.5% or - 0.08 in	+ 0.5% or + 0.08 in	- 0.25% or - 0.03 in	+ 0.25% or + 0.03 in	Compliant
Warpage Edge	ASTM C485	- 0.75% or - 0.09 in	+ 0.75% or + 0.09 in	- 0.40% or - 0.05 in	+ 0.40% or + 0.05 in	Compliant
Warpage Diagonal		- 0.5% or - 0.08 in	+ 0.5% or + 0.08 in	- 0.40% or - 0.07 in	+ 0.40% or + 0.07 in	Compliant
All Porcelain Tiles						
Water Absorption	ASTM C373	≤ 0.5%				≤ 0.5%
Breaking Strength	ASTM C648	Average ≥ 250 lbf; Individual ≥ 225 lbf				≥ 350 lbf avg
Bond Strength	ASTM C482	≥ 50 psi				≥ 100 psi
Resistance to Freeze/ Thaw Cycling	ASTM C1026	As Reported				Resistant
Chemical Resistance	ASTM C650	As Reported				Unaffected
Stain Resistance	ASTM C1378	As Reported				Unaffected
Dynamic Coefficient of Friction	DCOF (Wet)	Requires a minimum value of 0.42 for commercial areas that are likely to be wet				> 0.42 (Matte); > 0.6 (Grip)
VOC	No VOC					

Size	Nominal Size	Thickness	Finish	Rectified
12" x 24"	11-3/4" x 23-5/8"	9 mm	Matte	-
12" x 24"	11-3/4" x 23-5/8"	9 mm	Grip	-
2" x 2" Mosaic	11-3/4" x 11-3/4"	9 mm	Matte	-
2.9" x 5.8" Brick Mosaic	11-3/4" x 11-3/4"	9 mm	Matte	-
13" x 15" Turtle Mosaic	13-3/8" x 15-1/4"	9 mm	Matte	-
3" x 24" Bullnose	2-7/8" x 23-5/8"	9 mm	Matte	-
6" x 12" Cove Base	5-7/8" x 11-3/4"	8.5 mm (7 mm flat part)	Matte	-

Installation Note: The TCNA recommends rectangular shape tile be installed with maximum of 33% offset in order to resolve any possible lippage from one tile to the next.