

FORCE

COLORED BODY PORCELAIN TILE



PORCELAIN[®]
CERTIFIED TILE



EPD[®]



VOC
FREE



Compliant with standards ANSI A137.1-2012

SIZE - THICKNESS

11 3/4" x 23 5/8" - 30x60 cm 9 mm
17 3/4" x 35 3/8" - 45x90 cm 9 mm

FINISH

MATTE



MODERATE VARIATION

While the colors and/or texture present on a single piece of tile will be indicative of the colors and/or texture to be expected on the other tiles, the amount of colors and/or texture on each piece may vary significantly. It is recommended that the range be viewed before selection.

FIELD TILES - Available in all colors

	Nominal size (in)	Thickness (mm)	Finish	Rectified edge
	11 3/4" x 23 5/8"	9 mm	Matte	-
	17 3/4" x 35 3/8"	9 mm	Matte	Yes

MOSAICS AND COORDINATING TRIMS - Available in all colors

	Nominal size (in)	Thickness (mm)	Finish
Mosaic 2"x2"	11 3/4" x 11 3/4"	9 mm	Matte
Brick Mosaic 1.5"x3"	11 3/4" x 11 3/4"	9 mm	Matte
Bullnose 3"x24"	2 7/8" x 23 5/8"	9 mm	Matte
Cove Base 6"x12"	5 7/8" x 11 3/4"	8.5 mm (*)	Matte

Please refer to caliber chart for work sizes.

Close joints are not recommended.

(*): Cove Base thickness is 7 mm on flat top part.

PERFORMANCE & FEATURES

		PROPERTY	ASTM TEST METHOD	Porcelain Tile Specification				FORGE	
				Calibrated		Rectified			
				Minimum	Maximum	Minimum	Maximum		
REGULARITY CHARACTERISTICS		Nominal Size	ASTM C499	-3.00%	3.00%	-3.00%	2.00%	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	
		Thickness ⁽¹⁾		N/A	Range: 0.40 in (1.02 mm)	N/A	Range: 0.40 in (1.02 mm)	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	
		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	
		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	

All Porcelain Tiles								
STRUCTURAL CHARACTERISTICS		Water Absorption	ASTM C373	≤ 0.5%				≤ 0.5%
BULK MECHANICAL CHARACTERISTICS		Breaking strength	ASTM C648	Average ≥ 250 lbf. (1.11 kN) Individual ≥ 225 lbf. (1.00 kN)				≥ 350 lbf. avg
PHISICAL PROPERTIES		Bond Strength	ASTM C482	≥ 50 psi (0.34 Mpa)				≥ 100 psi
THERMAL AND IGROMETRIC CHARACTERISTICS		Resistance to Freeze/Thaw Cycling	ASTM C1026	As Reported				Resistant
CHEMICAL CHARACTERISTICS		Chemical Resistance	ASTM C650	As Reported				Unaffected
		Stain Resistance	ASTM C1378	As Reported				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

(*) 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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