

Liberty

Porcelain tiles



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Size 11³/₄" x 23⁵/₈" Thickness \pm 9 mm Finish Matte

V2 SLIGHT VARIATION



Field tiles	Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish	Edge
	12" x 24"	11 ³ / ₄ " x 23 ⁵ / ₈ "	9 mm	Matte	-
Mosaics and coordinating trims	Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish	
	Mosaic 2" x 2"	11 ³ / ₄ " x 11 ³ / ₄ "	9 mm	Matte	
	Brick Mosaic	11 ² / ₃ " x 11 ² / ₃ "	9 mm	Matte	
	Chevron Mosaic	12 ³ / ₇ " x 7 ³ / ₇ "	9 mm	Matte	
	Honeycomb Mosaic	9 ¹ / ₃ " x 11 ² / ₃ "	9 mm	Matte	
	Bullnose 3" x 24"	2 ⁷ / ₈ " x 23 ⁵ / ₈ "	9 mm	Matte	
	Cove Base 6" x 12"	5 ⁷ / ₈ " x 11 ³ / ₄ "	8.5 mm	Matte	

Please refer to caliber chart for working size. Close joints are not recommended.

		Requirements	
Property	Test Method	Calibrated	Rectified

Regularity characteristics		Nominal Size		$\pm 3.00\%$	$-3.00\% \div +2.00\%$	Compliant
		Caliber Range	ASTM C499	$\pm 0.50\%$ or ± 0.08 in (± 2.0 mm) (*)	$\pm 0.25\%$ or ± 0.03 in (± 0.8 mm) (*)	Compliant
		Thickness⁽¹⁾		Range: 0.04 in (1.02 mm)		Compliant
	Wedging	ASTM C502	$\pm 0.50\%$ or ± 0.08 in (± 2.0 mm) (*)	$\pm 0.25\%$ or ± 0.03 in (± 0.8 mm) (*)	Compliant	
		Warpage Edge	ASTM C485	$\pm 0.75\%$ or ± 0.09 in (± 2.3 mm) (*)	$\pm 0.40\%$ or ± 0.05 in (± 1.3 mm) (*)	Compliant
Warpage Diagonal		$\pm 0.50\%$ or ± 0.08 in (± 2.0 mm) (*)		$\pm 0.40\%$ or ± 0.07 in (± 1.8 mm) (*)	Compliant	
Structural characteristics		Water Absorption	ASTM C373	$\leq 0.5\%$		$\leq 0.5\%$
Bulk mechanical characteristics		Breaking Strength	ASTM C648	Average ≥ 250 lbf. (1.11 kN) Individual ≥ 225 lbf. (1.00 kN)		≥ 350 lbf. avg
Surface mechanical characteristics		Mohs' Scratch Hardness	C1895	Subject to the project ⁽³⁾		MOHS 7-8: Hard. Suitable for high-traffic residential and light commercial areas.
Physical properties		Bond Strength	ASTM C482	≥ 50 psi. (0.34 Mpa)		≥ 100 psi.
Thermal and hygrometric characteristics		Resistance to Freeze/Thaw Cycling	ASTM C1026			Resistant
		Thermal Shock Resistance	ASTM C484			Resistant
Chemical characteristics		Chemical Resistance	ASTM C650			Unaffected
		Stain Resistance	ASTM C1378			Unaffected
Safety characteristics		Dynamic Coefficient of Friction (DCOF)	ANSI A326.3	Subject to the project ^{(2) (3)}		≥ 0.42 Wet Interior Wet (IW) ⁽²⁾

(*) Whichever is less.

(1) Whichever is less, for tiles up to 24"x24" (610 mm x 610 mm).

(2) DCOF ≥ 0.42 Wet may not be a requirement for all projects.

(3) The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers' guidelines and recommendations. For updated manufacturer classification according to ANSI A326.3, Section 4 - "Product Use Categories", please refer to our website.

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Liberty

Wall tiles



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Size 12^{3/8}" x 22^{1/2}"
3^{1/8}" x 12^{3/8}" **Thickness** ± 8.5 mm **Finish** Glossy

V2 SLIGHT VARIATION

Field tiles	Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish	Edge
	12" x 22"	12 ^{3/8} " x 22 ^{1/2} "	8.5 mm	Glossy	-
	Brick 3" x 12"	3 ^{1/8} " x 12 ^{3/8} "	8.5 mm	Glossy	-
Mosaics and coordinating trims	Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish	
	Herringbone Wall Mosaic	12 ^{3/4} " x 12 ^{3/4} "	8.5 mm	Glossy	Please refer to caliber chart for working size. Close joints are not recommended.
	Prism Wall Mosaic	11" x 13 ^{3/4} "	8.5 mm	Glossy	
	Wall Bullnose 2" x 12"	2" x 12 ^{3/8} "	8.5 mm	Glossy	

	Property	Test Method	Requirements		
			Calibrated	Rectified	
Regularity characteristics	Nominal Size	ASTM C499	±2.00%		Compliant
	Caliber Range		±0.30% or ±0.04 in (±1.0 mm) (*)	±0.25% or ±0.03 in (±0.8 mm) (*)	Compliant
	Thickness ⁽¹⁾		Range: 0.031 in (0.79 mm)		Compliant
	Wedging	ASTM C502	±0.40% or ±0.05 in (±1.3 mm) (*)	±0.25% or ±0.03 in (±0.8 mm) (*)	Compliant
	Warpage Edge	ASTM C485	-0.3% ÷ +0.4 or -0.04% ÷ +0.05 in (-1mm ÷ +1.3 mm) (*)		Compliant
	Warpage Diagonal		-0.3% ÷ +0.4 or -0.05% ÷ +0.07 in (-1.3mm ÷ +1.8 mm) (*)		Compliant
Structural characteristics	Water Absorption	ASTM C373	≤ 10.0%		10.0% - 20.0%
Bulk mechanical characteristics	Breaking Strength	ASTM C648	Average ≥ 125 lbf. (1.11 kN) Individual ≥ 100 lbf. (0.44 kN)		≥ 175 lbf. avg
Physical properties	Bond Strength	ASTM C482	≥ 50 psi. (0.34 Mpa)		≥ 100 psi.
Thermal and hygrometric characteristics	Crazing Resistance	ASTM C424			Resistant
	Thermal Shock Resistance	ASTM C484			Resistant
Chemical characteristics	Chemical Resistance	ASTM C650			Unaffected
	Stain Resistance	ASTM C1378			Unaffected

(*) Whichever is less
(1) Whichever is less, for tiles up to 24"x24" (610 mm x 610 mm).

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