

LIBERTY

COLORED BODY PORCELAIN TILE



Compliant with standards ANSI A137.1-2012

SIZE - THICKNESS

11 3/4" x 23 5/8" - 30x60 cm ∇ 9 mm

FINISH

MATTE



V2

SLIGHT VARIATION

Clearly distinguishable differences in texture and/or pattern within similar colors.

FIELD TILES - Available in all colors

Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish
12"x24"	11 3/4" x 23 5/8"	9 mm	Matte

MOSAICS AND COORDINATING TRIMS - Available in all colors










Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish
Mosaic 2"x2"	11 3/4" x 11 3/4"	9 mm	Matte
Brick Mosaic 2"x4"	11 3/4" x 11 3/4"	9 mm	Matte
Chevron Mosaic 2"x5"	7 1/2" x 12 3/8"	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

				Porcelain Tile Specification				
		PROPERTY	ASTM TEST METHOD	Calibrated		Rectified		LIBERTY
				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
PHYSICAL 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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LIBERTY

WHITE BODY WALL TILE



Compliant with standards ANSI A137.1-2012

SIZE - THICKNESS

12"x22" - 30.5x56 cm \pm 8.5 mm
3 1/8"x12 3/8" - 8x31.5 cm \pm 8.5 mm

FINISH

GLOSSY



V2

SLIGHT APPEARANCE

Clearly distinguishable differences in texture and/or pattern within similar

FIELD TILES - Available in all colors










Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish	Rectified Edge
12"x22"	12" x 22"	8.5 mm	Glossy	Yes
3"x12"	3 1/8 x 12 3/8"	8.5 mm	Glossy	-

MOSAICS AND COORDINATING TRIMS - Available in all colors

Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish
Bullnose 2"x12"	2" x 12"	8.5 mm	Glossy
Herringbone Wall Mosaic 1"x2"	11 3/4" x 11 3/4"	8.5 mm	Glossy
Prism Wall Mosaic 2 3/4"x5 1/2"	11" x 11"	8.5 mm	Glossy

Please refer to caliber chart for work sizes.
Close joints are not recommended.

PERFORMANCE & FEATURES

				Wall Tile Specification				
		PROPERTY	ASTM TEST METHOD	Calibrated		Rectified		LIBERTY
				Minimum	Maximum	Minimum	Maximum	
REGULARITY CHARACTERISTICS		Nominal Size	ASTM C499	-2.00%	2.00%	-2.00%	2.00%	Compliant
		Caliber Range (Variation from average facial dimension of sample)		-0.30% or -0.04 in (-1.0 mm) (*)	0.30% or 0.04 in (1.0 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: 0.031 in (0.79 mm)	N/A	Range: 0.031 in (0.79 mm)	Compliant
		Wedging	ASTM C502	-0.40% or -0.05 in (-1.3 mm) (*)	0.40% or 0.05 in (-1.3 mm) (*)	-0.25% or -0.03 in (-0.8 mm) (*)	0.25% or 0.03 in (0.8 mm) (*)	Compliant
		Warpage Edge	ASTM C485	-0.30% or -0.04 in (-1.0 mm) (*)	0.40% or 0.05 in (1.3 mm) (*)	-0.30% or -0.04 in (-1.0 mm) (*)	0.40% or 0.05 in (1.3 mm) (*)	Compliant
		Warpage Diagonal		-0.30% or -0.05 in (-1.3 mm) (*)	0.40% or 0.07 in (1.8 mm) (*)	-0.30% or -0.05 in (-1.3 mm) (*)	0.40% or 0.07 in (1.8 mm) (*)	Compliant
				All Wall Tiles				
STRUCTURAL CHARACTERISTICS		Water Absorption	ASTM C373	≥ 10.0%				10% - 20%
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 IGROMETRIC CHARACTERISTICS		Crazing Resistance	ASTM C424	Pass				Resistant
		Thermal Shock Resistance	ASTM C484	Pass				Resistant
CHEMICAL CHARACTERISTICS		Chemical Resistance	ASTM C650	As Reported				Unaffected
		Stain Resistance	ASTM C1378	As Reported				Unaffected

(*) Whichever is less

(1) May not apply to textured surfaces or tiles with uneven back patterns.

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