



LIBERTY



atlas concorde
USA





Compliant with standards ANSI A137.1-2012

SIZE - THICKNESS

12"x22" - 30.5x56 cm \pm 8.5 mm
 3¹/₈"x12³/₈" - 8x31.5 cm \pm 8.5 mm

FINISH

GLOSSY



V2

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

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
Wall 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

LIBERTY	PROPERTY	ASTM TEST METHOD	Wall Tile Specification				LIBERTY Wall
			Calibrated		Rectified		
			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	
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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COLORED BODY PORCELAIN TILE



Compliant with standards ANSI A137.1-2012

SIZE - THICKNESS

11^{3/4}"x23^{5/8}" - 30x60 cm ± 9 mm

FINISH

MATTE



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"	9mm	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

SLIGHT VARIATION

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

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

LIBERTY		PROPERTY	ASTM TEST METHOD	Porcelain Tile Specification				LIBERTY Floor
				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) (*)
				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

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(*) 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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