

# Fray

Porcelain tiles



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Size  $11\frac{3}{4}" \times 23\frac{5}{8}"$   
 $23\frac{5}{8}" \times 47\frac{1}{4}"$

Thickness  $\pm 9$  mm












Finish Matte

V2 SLIGHT VARIATION



Field tiles	Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish	Edge
	12" x 24"	$11\frac{3}{4}" \times 23\frac{5}{8}"$	9 mm	Matte	-
	24" x 48"	$23\frac{5}{8}" \times 47\frac{1}{4}"$	9 mm	Matte	Rectified
Mosaics and coordinating trims	Commercial size (in)	Nominal size (in)	Thickness (mm)	Finish	
	Mosaic 2" x 2"	$11\frac{3}{4}" \times 11\frac{3}{4}"$	9 mm	Matte	
	Herringbone Mosaic	$14\frac{5}{8}" \times 11\frac{1}{8}"$	9 mm	Matte	
	Hexmark Mosaic	$12\frac{1}{6}" \times 12\frac{1}{16}"$	9 mm	Matte	
	Tatami Mosaic	$11\frac{4}{5}" \times 11\frac{4}{5}"$	9 mm	Matte	
	Bullnose 3" x 24"	$2\frac{7}{8}" \times 23\frac{5}{8}"$	9 mm	Matte	
	Cove Base 6" x 12"	$5\frac{7}{8}" \times 11\frac{3}{4}"$	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	 <b>Nominal Size</b>	ASTM C499	±3.00%	-3.00% ÷ +2.00%	Compliant
	<b>Caliber Range</b>		±0.50% or ±0.08 in (±2.0 mm) (*)	±0.25% or ±0.03 in (±0.8 mm) (*)	Compliant
	<b>Thickness <sup>(1)</sup></b>		Range: 0.04 in (1.02 mm)		Compliant
	<b>Wedging</b>	ASTM C502	±0.50% or ±0.08 in (±2.0 mm) (*)	±0.25% or ±0.03 in (±0.8 mm) (*)	Compliant
	 <b>Warpage Edge</b>	ASTM C485	±0.75% or ±0.09 in (±2.3 mm) (*)	±0.40% or ±0.05 in (±1.3 mm) (*)	Compliant
	<b>Warpage Diagonal</b>		±0.50% or ±0.08 in (±2.0 mm) (*)	±0.40% or ±0.07 in (±1.8 mm) (*)	Compliant
Structural characteristics	 <b>Water Absorption</b>	ASTM C373	≤ 0.5%		≤ 0.5%
Bulk mechanical characteristics	 <b>Breaking Strength</b>	ASTM C648	Average ≥ 250 lbf. (1.11 kN) Individual ≥ 225 lbf. (1.00 kN)		≥ 350 lbf. avg
Surface mechanical characteristics	 <b>Mohs' Scratch Hardness</b>	C1895	Subject to the project <sup>(3)</sup>		MOHS 7-8: Hard. Suitable for high-traffic residential and light commercial areas.
Physical properties	 <b>Bond Strength</b>	ASTM C482	≥ 50 psi. (0.34 Mpa)		≥ 100 psi.
Thermal and hygrometric characteristics	 <b>Resistance to Freeze/Thaw Cycling</b>	ASTM C1026			Resistant
	 <b>Thermal Shock Resistance</b>	ASTM C484			Resistant
Chemical characteristics	 <b>Chemical Resistance</b>	ASTM C650			Unaffected
	 <b>Stain Resistance</b>	ASTM C1378			Unaffected
Safety characteristics	 <b>Dynamic Coefficient of Friction (DCOF)</b>	ANSI A326.3	Subject to the project <sup>(2)</sup> <sup>(3)</sup>		≥ 0.42 Wet Interior Wet (IW) <sup>(2)</sup>

(\*) Whichever is less.

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

(2) DCOF  $\geq 0.42$  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.

For more details please see the catalogue or visit [atlasconcordeusa.com](http://atlasconcordeusa.com)

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