CORSO ITALIA

MADE IN USA

CERTIFIED PORCELAIN TILE

GLAZED PORCELAIN TILES

COMMERCIAL SIZE (IN)	NOMINAL SIZE (IN)	THICKNESS (MM)	FINISH	EDGE
12" x 24"	11 3/4" x 23 5/8"	8 mm	Matte	Calibrated
24" x 48"	23 5/8" x 47 1/4"	8 mm	Matte	Rectified
8" x 40"	7 3/4" x 39 3/8"	8 mm	Matte	Calibrated
8.5" x 10" Hexa	9 7/8" x 8 1/2" Hexa	8 mm	Matte	Calibrated
3" x 12"	2 3/4" x 11 3/4"	8 mm	Matte	Calibrated
3" x 12"	2 3/4" x 11 3/4"	8 mm	Matte	Calibrated
Mosaics and Trims	-	8 mm	Matte	-

		TECHNICAL FEATURES	TEST METHOD	REQUIREMENTS		
				PRESSED	RECTIFIED	
REGULARITY CHARACTERISTICS		Nominal size	ASTM C499	± 3.00%	- 3.00% ÷ + 2.00%	Compliant
		Caliber range		± 0.50% or ± 0.08 in (± 2.00 mm) (*)	± 0.25% or ± 0.03 in (± 0.8 mm) (*)	Compliant
		Thickness(1)		Range: 0.04 in (1.02 mm) (*)		Compliant
		Wedging	ASTM C502	± 0.50% or ± 0.08 in (± 2.00 mm)	± 0.25% or ± 0.03 in (± 0.8 mm) (*)	Compliant
		Warpage edge	ASTM C485	± 0.75% or ± 0.09 in (± 2.3 mm) (*)	± 0.40%	Compliant
		Warpage diagonal		± 0.50% or ± 0.08 in (± 2.00 mm) (*)	± 0.40% or ± 0.07 in (± 1.8 mm) (*)	Compliant
STRUCTURAL CHARACTERISTICS		Water absorption	ASTMC373	≤ 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 HYGROMETRIC CHARACTERISTICS		Resistance to freeze/Thaw cycling	ASTM C1026	As reported		Resistant
		Thermal shock resistance	ASTM C484	As reported		Resistant
CHEMICAL CHARACTERISTICS		Chemicals resistance	ASTM C650	As reported		Unaffected
		Staining resistance	ASTM C1378	As reported		Unaffected
SAFETY CHARACTERISTICS		Dynamic coefficient of friction	ANSI A326.3	As reported(2)	Matte: ≥ 0.42 Wet Interior Wet (IW)(2)	Polished: 0.42 Dry Interior Dry (ID)(2) / Grip: ≥ 0.60 Wet Exterior Wet (IW)(2)

(*) Whichever is less.
(1) May not apply to textured or tiles with uneven back patterns.
(2) DCOF ≥ 0.42 Wet may not be a requirement for all projects. The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, treffic, expected contaminants, expected maintenance, expected wear, and manufactures' guideline 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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Declare. G2 GREEN SQUARED CERTIFIED hpd

CORSO ITALIA

MADE IN USA

WALL TILES

COMMERCIAL SIZE (IN)	NOMINAL SIZE (IN)	THICKNESS (MM)	FINISH	EDGE
12" x 22"	12 3/8" x 22 1/2"	8.5 mm	Matte	Rectified

		TECHNICAL FEATURES	TEST METHOD	REQUIREMENTS		
				CALIBRATED	RECTIFIED	
REGULARITY CHARACTERISTICS		Nominal size	ASTM C499	± 2.00%	± 2.00%	Compliant
		Caliber range		± 0.30% or ± 0.04 in (± 2.00 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% or - 0.04 in + 0.4% or 0.05 in (- 1 mm or + 1.3 mm) (*)		Compliant
		Warpage diagonal		- 0.3% or - 0.05 in + 0.4% or 0.07 in (- 1.3 mm or + 1.8 mm) (*)		Compliant
STRUCTURAL CHARACTERISTICS		Water absorption	ASTMC373	≥ 10%		10% - 20%
BULK MECHANICAL CHARACTERISTICS		Breaking strength	ASTM C648	Average ≥ 125 lbf. (1.11 kN) Individual ≥ 100 lbf. (1.00 kN)		≥ 175 lbf. avg
PHYSICAL PROPERTIES		Bond strength	ASTM C482	≥ 50 psi (0.34 Mpa)		≥ 100 psi
THERMAL AND HYGROMETRIC CHARACTERISTICS		Resistance to freeze/Thaw cycling	ASTM C1026	As reported		Resistant
		Thermal shock resistance	ASTM C484	As reported		Resistant
CHEMICAL CHARACTERISTICS		Chemicals resistance	ASTM C650	As reported		Unaffected
		Staining resistance	ASTM C1378	As reported		Unaffected

(*) Whichever is less.
(1) May not apply to textured or tiles with uneven back patterns.

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CORSO ITALIA

MADE IN USA

CERTIFIED PORCELAIN TILE

OUTDOOR PAVERS

COMMERCIAL SIZE (IN)	NOMINAL SIZE (IN)	THICKNESS (MM)	FINISH	EDGE
24" x 24"	23 5/8" x 23 5/8"	20 mm	Matte	Rectified
24" x 48"	23 5/8" x 47 1/4"	20 mm	Matte	Rectified

		TECHNICAL FEATURES	TEST METHOD	REQUIREMENTS	
				RECTIFIED	
REGULARITY CHARACTERISTICS		Nominal size	ASTM C499	- 3.00% + 2.00%	Compliant
		Caliber range		± 0.25% or ± 0.03 in (± 0.8 mm) (*)	Compliant
		Thickness(1)		Range: 0.04 in (1.02 mm)	Compliant
		Wedging	ASTM C502	± 0.25% or ± 0.03 in (± 0.8 mm) (*)	Compliant
		Warpage edge	ASTM C485	± 0.40% or ± 0.05 in (± 1.3 mm) (*)	Compliant
		Warpage diagonal		± 0.40% or ± 0.07 in (± 1.8 mm) (*)	Compliant
STRUCTURAL CHARACTERISTICS		Water absorption	ASTMC373	≥ 0.5%	≥ 0.5%
BULK MECHANICAL CHARACTERISTICS		Breaking strength	ASTM C648	≥ 2000 lbf. avg	Compliant
		Modulus of rupture	ASTM C1505	5000 psi	Compliant
THERMAL AND HYGROMETRIC CHARACTERISTICS		Resistance to freeze/Thaw cycling	ASTM C1026	As reported	Resistant
		Thermal shock resistance	ASTM C484	As reported	Resistant
CHEMICAL CHARACTERISTICS		Chemicals resistance	ASTM C650	As reported	Unaffected
		Staining resistance	ASTM C1378	As reported	Unaffected
SAFETY CHARACTERISTICS		Dynamic coefficient of friction	ANSI A326.3	As reported(2)	≥ 0.60 Wet Exterior Wet (IW)(2)

(*) Whichever is less.
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(2) DCOF ≥ 0.60 Wet may not be a requirement for all projects. The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, treffic, expected contaminants, expected maintenance, expected wear, and manufactures' guideline and recommendations.
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CERTIFIED PORCELAIN TILE

GLAZED PORCELAIN TILES

	TECHNICAL FEATURES	TEST METHOD	RESULT
	Resistance to abrasion	PEI	3
	Water absorption	ASTMC373	≤ 0.5%
	Dynamic coefficient of friction	ANSI A326.3	Matte: ≥ 0.42 Wet - Interior Wet (IW)(2)
			Polished: 0.42 Dry - Interior Dry (ID)(2)
			Grip: ≥ 0.60 Wet - Exterior Wet (IW)(2)
	Breaking strength	ASTM C648	≥ 350 lbf. avg
	Resistance to freeze/Thaw cycling	ASTM C1026	Resistant



Dynamic Coefficient Of Friction (DCOF)
DCOF measures a tile's slip resistance when it's subjected to dynamic forces such as walking or running. It is a crucial factor in determining tile safety, especially in areas prone to moisture or wet conditions like bathrooms and kitchens.
The higher the DCOF value, the better a tile's slip resistance. A DCOF value of 0.42 or higher is generally considered safe for most applications.



Resistance to freeze/Thaw cycling
Freeze/thaw resistance is relevant for outdoor tiles of tile exposed to extreme temperature fluctuations. It measures a tile's ability to endure cycles of freezing and thawing without cracking of deteriorating.
Tiles designed for outdoor use often ahve good freeze/thaw resistance.



Resistance to abrasion (PEI)
The PEI rating indicates a tile's suitability for specific levels of foot traffic. It ranges from PEI 0 (no foot traffic) to PEI 5 (heavy commercial traffic).
It helps consumers choose tiles appropriate for their intended application, ensuring longevity and durability.
PEI 0 - No Foot Traffic: Tiles whit a PEI rating of a0 are non suitable for foot traffic. they are typically used for decorative purpose oan walls and are not designed for floors.
PEI 1 - Very Light Traffic: Tiles are designed for very light traffic areas such a residential bathroom or area where shoes are rarely worn.
They are not suitable for area with regular foot traffic.
PEI 2 - Light Traffic: Tiles whit a PEI rating of 2 can handle light traffic areas such as residential setting like bedrooms and bathrooms.
They are non recommended for high-traffic areas or commercial use.
PEI 3 - Moderate Traffic: Tiles are suitable for moderate foot traffic in residential areas like kitchens, hallways, and living room. They can also be used in light commercial setting with limited foot traffic.
PEI 4 - Heavy Traffic: Tiles are designed to withstand heavy foot traffic and are suitable for hight-traffic residential areas like entryways and commercial spaces such as restaurant or offices.
They are durable and can withstand significant wear and tear.
PEI 5 - Extra heavy Traffic: Tiles are specifically engineered for extra heavy foot traffic areas, such as shopping malls, airports, or other commercial spaces whit constant use.



Water absorption
Water absorption, also known as porosity, indicates how much water a tile can absorb. It is expressed as a percentage of the tile's weigh.
Tiles with lower water absorption are ideal for wet areas, as the are less likely to absorb moisture and are more resistant to staining and cracking.



Rectified vs pressed
Rectied tiles have a precise edges and uniform dimensions because they are mechanically cut after firing. This allows for very tight grout joints and clean, modern appearance.
Pressed tiles are molded and then fired, and they may be have slightly rounded edges and size variations.



Breaking strength
Breaking strength measures a tile's resistance to breaking or fracturing under pressure. It is typically expressed in pounds per square inch (psi).
Tiles whit higher breaking strength are more durable and suitable for high-traffic areas.

(1) DCOF ≥ 0.42 Wet may not be a requirement for all projects. The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, treffic, expected contaminants, expected maintenance, expected wear, and manufactures' guideline and recommendations.
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WALL TILES

TECHNICAL FEATURES	TEST METHOD	RESULT
Water absorption	ASTMC373	10% - 20%
Breaking strength	ASTM C648	≥ 175 lbf. avg
Resistance to freeze/Thaw cycling	ASTM C1026	Resistant



Dynamic Coefficient Of Friction (DCOF)
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CERTIFIED PORCELAIN TILE

OUTDOOR PAVERS

	TECHNICAL FEATURES	TEST METHOD	RESULT
	Resistance to abrasion	PEI	3
	Water absorption	ASTM C373	≤ 0.5%
	Dynamic coefficient of friction	ANSI A326.3	≥ 0.60 Wet Exterior Wet (EW)(1)
	Breaking strength	ASTM C648	≥ 2000 lbf. avg
	Resistance to freeze/Thaw cycling	ASTM C1026	Resistant



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