



# Technical characteristics Series TECNOQUARTZ

## Thickness 12 mm

### *ANSI/ASTM Standards*

Products: **DORAL – SILVER – HOT SAND – GNEISS – HARD BLACK**

Sizes/Thicknesses (mm): **RECTIFIED 7.9"x11.8"/12; 11.8"x11.8"/12; 7.9"x23.6"/12;**

**11.8"x23.6"/12; 15.7"x23.6"/12; 23.6"x23.6"/12; 23.6"x47.2"/12**

Product group: **Impervious Porcelain Paver Tiles** (Water absorption  $\leq 0.5\%$ )

Surface: **UNGLAZED (UGL)**

Technical characteristics		Test method	ANSI 137.1: Value required for Unglazed Impervious Porcelain Paver Tiles	TECNOQUARTZ Values
Water absorption		ASTM C373	$\leq 0.5\%$	$\leq 0.05\%$
Breaking strength		ASTM C648	$\geq 250$ pounds	Compliant
Deep abrasion resistance		ASTM C1243	$\leq 175\text{ mm}^3$	$\leq 145\text{ mm}^3$
Resistance to abrasive wear		ASTM C501	$lw \geq 100$	$lw \geq 200$
Linear thermal expansion		ASTM C372	Not required	$\alpha \leq 8 \cdot 10^{-6} \text{ }^\circ\text{C}^{-1}$ $\alpha \leq 4.4 \cdot 10^{-6} \text{ }^\circ\text{F}^{-1}$
Chemical resistance		ASTM C650	Not required	Resistant
Stain resistance		CTI-T-81 D	Not required	Resistant
Frost resistance		ASTM C1026	Not required	Resistant
Bond strength		ASTM C482	$\geq 50$ PSI	Compliant
Dimensions	Warpage Edge	ASTM C485	$\pm 0.40\%$ or max $\pm 0.05$ inch for tiles up to 24"x24" or max $\pm 0,07$ inch for tiles larger than 24"x24"	Compliant
	Warpage Diagonal	ASTM C485	$\pm 0.40\%$ or max $\pm 0.07$ inch	Compliant
	Nominal sizes	ASTM C499	-3.0% / +2,0% of nominal dimensions	$\pm 1.50\%$
	Caliber range	ASTM C499	$\pm 0.25\%$ or max $\pm 0.03$ inch	Compliant
	Thickness	ASTM C499	$\leq 0.040$ inch	$\leq 0.030$ inch
	Wedging	ASTM C502	$\pm 0.25\%$ or max $\pm 0.03$ inch	Compliant
Slip resistance		ASTM C1028	COF $< 0.50$ questionable $0.50 \leq \text{COF} < 0.60$ conditionally slip resistant $\text{COF} \geq 0.60$ slip resistant	dry-neolite: $\text{COF} \geq 0.60$ wet-neolite: $\text{COF} \geq 0.60$