

Quality of ceramic granite

All our products have been quality tested at «Centro Ceramico» in Bologna, Italy in 2003 and in 2004. The results were as follows:

Description	EN-Standard / EN 176 / ISO	Test results Ceramic Granite Great Stone (Europe) Ltd.
EN 98 / ISO 10545-2 Testing of Dimensions and Surface Quality	- Length, width and rectangularity of side must be max. $\pm 0.6\%$ - Straightness of sides and surface flatness may vary max. $\pm 0.5\%$ - Thickness may vary max. $\pm 5.0\%$	- No deviation is higher than $\pm 0.1\%$ - No deviation is higher than $\pm 0.1\%$ - No deviation is higher than $\pm 2.3\%$
EN 99 / ISO 10545-3 Testing for Water Absorption	Required value for "Fully vitrified tiles" is up to 0.5%	The average result achieved was between 0.08 % – 0.15 %
EN 100 / ISO 10545-4 Testing for modulus of rupture	$\geq 27 \text{ N/mm}^2$ $\geq 275 \text{ kg/cm}^2$	$\geq 47 \text{ N/mm}^2$ $\geq 482 \text{ kg/cm}^2$
EN 101 Testing of scratch hardness according to Mohs	D MOHS ≥ 6	All tiles tested were compliant
EN 102 / ISO 10545-6 Testing of resistance to deep abrasion (unglazed tiles)	$\leq 205 \text{ mm}^3$	$\leq 169 \text{ mm}^3$
EN 103 / ISO 10545-8 Testing for Linear Thermal Expansion	$a \leq 9 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$	$6.2 - 6.4 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$
EN 106 Testing for Chemical Resistance	Sample must not show visible signs of change to surface. Liquids used in tests: - Methylen blue/Caliummanganat - Ammoniumchlorid - Standard cleaning powder - Natriumhypochlorid - Copper sulfat - Sulphuric - Milk acidity - Calcium lye	This standard was not exceeded
EN 202 Testing form Frost Resistance	No samples must show visible alterations to surface	All tiles tested were compliant The following result were reached: before test: 0.10 % after test: 0.12 %
DIN 51130 Testing from Slip Resistance	R12 ($27^\circ \leq a \leq 35^\circ$)	The following result were reached: BGR 181-10/2003 To reach R12 we recommend www.slipstop.com
BCR REP. CEC 6/81 TORTUS Testing from Slip Resistance	$0.40 < \mu \leq 0.74$ = good slip resistance $\mu \geq 0.75$ = excellent slip resistance	An average of $< 0,40$ was reached
ASTM C1028 Testing from Slip Resistance	$0.50 \leq F_c < 0.60$ = not slippery $F_c \geq 0.60$ = slip resistant	An average of $< 0,67$ was reached

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