

TECHNICAL FEATURES	
Collection: Powder pc	Brand: Marazzi
Size (cm): 10x10	Thickness (mm): 07

Compliant with standard EN 14411:2016 annex G group Bl_a - GL
 Compliant with standard ISO 13006:2018 annex G group Bl_a - GL

Technical Features	Testing Method	Meas. unit	Average Typical Values	Established limits		
DIMENSIONAL PROPERTIES AND SURFACE QUALITY						
Dimensions				Nominal Length of edge N (cm) 7≤N<15	Nominal Length of edge N (cm) N≥15	
Length and width (*)	ISO 10545-2	(mm) (%)	Complies with the standards	±2% (max 5mm)	±2% (max 5mm) ±2% (max 5mm)	
Length and width (**)						
Not Rectified			Complies with the standards	±0,9 mm	±0,6%	±2,0 mm
Rectified				± 0,4 mm	±0,3 %	±1,0 mm
Thickness						
Not Rectified			Complies with the standards	±0,5 mm	±5%	±0,5 mm
Rectified				±0,5 mm	±5%	±0,5 mm
Straightness of sides						
Not Rectified			Complies with the standards	±0,75 mm	±0,5 %	±1,5 mm
Rectified				±0,4 mm	±0,3 %	±0,8 mm
Rectangularity						
Not Rectified			Complies with the standards	±0,75 mm	±0,5%	±2,0 mm
Rectified				±0,4 mm	±0,3%	±1,5 mm
Surface Flatness c.c - e.c. - w.						
Not Rectified			Complies with the standards	±0,75 mm	±0,5%	±2,0 mm
Rectified				±0,6 mm	±0,4%	±1,8 mm
Surface Quality		Complies with the standards	≥95%			

Technical Features	Standard Method		Average Declared Value	Requirements
Nominal Size	ASTM C499		Compliant	MIN - 3.00 % MAX 2.00 %
Caliber Range	ASTM C499		Compliant	MIN - 0.25% or -0.03 in (-0.8 mm)(1) MAX 0.25% or 0.03 (-0.8 mm)(1)
Wedging	ASTM C502		Compliant	MIN - 0.25% or -0.03 in (-0.8 mm)(1) MAX 0.25% or 0.03 (-0.8 mm)(1)
Warpage edge	ASTM C485		Compliant	MIN - 0.40% or - 0.05 in (- 1.3 mm)(3) or -1.8 mm(4) MAX 0.40% or 0.05 in (1.3 mm)(3) or 1.8 mm(4)
Warpage Diagonal	ASTM C485		Compliant	MIN- 0.40% or - 0.07 in (- 1.8 mm)(1) MAX 0.40% or 0.07 in (1.8 mm)(1)
Thickness (2)	ASTM C499		Not affected	Range: 0.040 in (1.02 mm)



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PHYSICAL PROPERTIES				
Water absorption	ISO 10545-3	(%)	≤ 0,5	Eb ≤ 0,5 (Individual maximum value 0,6%)
Color Uniformity (8)	ASTM C609 and Section 9.3		Compliant	V0 – 3 Judds
Modulus of rupture	ISO 10545-4	(N/mm ²)	≥ 35	R ≥ 35 (Individual minimum value 32 N/mm ²)
Breaking Strength	ISO 10545-4	(N)	≥ 700	≥ 1300 (Thickness ≥ 7,5 mm) ≥ 700 (Thickness < 7,5 mm)
Resistance to surface abrasion	ISO 10545-7		See attached table	Abrasion class and cycles passed
Visible Abrasion Resistance	ASTM 1027		Dark Colors: IV Light Colors: V	Declared Value
Linear thermal expansion coefficient	ISO 10545-8	(x(10)-6/°C)	≤ 9	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Thermal shock resistance	ISO 10545-9		Complies with the standards	Declared value (EN 14411:2016) **** Test Method available (ISO 13006:2018)
Thermal Shock (5)	ASTM C484		Pass	Pass
Crazing Resistance	ISO 10545-11		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)
Frost resistance	ISO 10545-12		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)
Resistance to Freeze/ Taw Cycling	ASTM C1026		No damage	Declared Value
Reaction to fire	-	-	A1 FL / A1	Class A1 or Class A1 FL (EN 14411:2016)
Color resistance to light exposure	DIN 51094		Complies with the standards	No sample must show noticeable colour modifications.
Bond Strength	ASTM C482		Compliant	≥ 50 psi (0.34 MPa)

- (1) Whichever is less.
 (2) May not apply to textured surfaces or tiles with uneven back patterns.
 (3) Whichever is less, for tiles up to 24" (610 mm) on any side
 (4) Applies to tiles larger than 24" (610 mm) on any side
 (5) Glazed tiles only.
 (6) When installation subject to freeze/thaw conditions.
 (7) For Level interior spaces expected to be walked upon when wet (see Section 6.2.2.1.10)
 (8) Class V0 tile only



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CHEMICAL PROPERTIES				
Resistance to chemicals for household use and swimming pool salts	ISO 10545-13		A	GB Minimum (EN 14411:2016) GB Minimum (ISO 13006:2018)
Resistance to low concentrations of acids and alkalis	ISO 10545-13		LA-LB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Resistance to high concentrations of acids and alkalis	ISO 10545-13		HA-HB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2018)
Stain resistance	ISO 10545-14		Class 5	Minimum class 3 (EN 14411:2016) Minimum class 3 (ISO 13006:2018)
ANTISLIPPERY PROPERTIES				

* The work size shall be chose, for non-modular tiles, so that the difference between the work size and the nominal size is:

** The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size..

**** See Table 2 for uses where it is applicable

c.c. Centre curvature, related to diagonal calculated from the work sizes

e.c. Edge curvature, related to the corresponding work sizes.

w. Warpage, related to diagonal calculated from the work sizes.



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Resistance to surface	abrasion – ISO 10545-7
Graphite	Class 2 - Visible abrasion after 600 cycles
Mud	Class 2 - Visible abrasion after 600 cycles
Smoke	Class 3 - Visible abrasion after 1500 cycles



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