

TECHNICAL FEATURES	
Collection: Lume	Brand: Marazzi
Size (cm): 21x18.2	Thickness (mm): 9,5
Size (cm): 6x24	Thickness (mm): 10

Compliant with standard EN 14411:2016 annex G group Bla - GL

Compliant with standard ISO 13006:2018 annex G group Bla - 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%		
PHYSICAL PROPERTIES							
Water absorption			ISO 10545-3	(%)	≤ 0,5	Eb ≤ 0,5 (Individual maximum value 0,6%)	
Modulus of rupture	ISO 10545-4	(N/mm2)	≥ 35	R ≥35 (Individual minimun value 32 N/mm2)			
Breaking Strength	ISO 10545-4	(N)	≥ 1300	≥1300 (Thickness ≥7,5 mm) ≥700 (Thickness < 7,5 mm)			
Resistance to surface abrasion	Internal Method		Intended use - Class F				
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)			
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)			
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.			



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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		from Class 5 to Class 3	Minimum class 3 (EN 14411:2016) Minimum class 3 (ISO 13006:2018)

- * 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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