MARAZZI

TECHNICAL FEATURES	
Collection: Plaster20 Surface: Strutturato	Brand: Marazzi
Size (cm): 60X60	Thickness (mm): 20

Compliant with standard EN 14411:2016 annex G group BIa - UGL
Compliant with standard ISO 13006:2016 annex G group BIa - UGL

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 (**)			Complies with the standards	±0,9 mm	±0,6%	±2,0 mm
Thickness			Complies with the standards	±0,5 mm	±5%	±0,5 mm
Straightness of sides			Complies with the standards	±0,75 mm	±0,5%	±1,5 mm
Rectangularity			Complies with the standards	±0,75 mm	±0,5%	±2,0 mm
Surface Flatness c.c - e.c. - w.			Complies with the standards	±0,75 mm	±0,5%	±2,0 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)	>= 45	R ≥35 (Individual minimun value 32 N/mm2)		
Breaking Strength	ISO 10545-4	(N)	>= 11000	≥1300 (Thickness ≥7,5 mm) ≥700 (Thickness < 7,5 mm)		
Resistance to deep abrasion	ISO 10545-6	(mm3)	<= 175	≤175		
Resistance to surface abrasion	Internal Method		Intended use - Class H			
Linear thermal expansion coefficient	ISO 10545-8	(x(10)-6/°C)	<= 9	Declared value (EN 14411:2016) Test Method available (ISO 13006:2016)		
Thermal shock resistance	ISO 10545-9		Complies with the standards	Declared value (EN 14411:2016) **** Test Method available (ISO 13006:2016)		
Frost resistance	ISO 10545-12		Complies with the standards	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2016)		
Reaction to fire	-	-	Floor/Wall Class A1 FL / A1	Class A1 or Class A1 FL		
Colour resistance to light exposure	DIN 51094		Complies with the standards	No sample must show noticeable colour modifications.		

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CAP.SOC. EURO 102.232.000 INT. VERS.
P.IVA E COD. INTRASTAT IT 00611410374
C.F. E N. DI ISCRIZIONE REG. IMPR. DI MO 00611410374
R.E.A. MODENA N. 49219
N. MECCANOGRAFICO MO 041028
SOCIETA' SOGGETTA A DIREZIONE E COORDINAMENTO
DI MOHAWK INDUSTRIES, INC.

MARAZZI

TECHNICAL FEATURES	
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Size (cm): 60X60	Thickness (mm): 20

Technical Features	Testing Method	Meas. unit	Average Typical Values	Established limits
CHEMICAL PROPERTIES				
Resistance to chemicals for household use and swimming pool salts	ISO 10545-13		A	UB Minimum (EN 14411:2016) UB Minimum (ISO 13006:2016)
Resistance to low concentrations of acids and alkalis	ISO 10545-13		LA-LB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2016)
Resistance to high concentrations of acids and alkalis	ISO 10545-13		HA-HB	Declared value (EN 14411:2016) Test Method available (ISO 13006:2016)
Stain resistance	ISO 10545-14		Class 5	Declared value (EN 14411:2016) Test Method available (ISO 13006:2016)
ANTISLIPPERY PROPERTIES				
Slipperiness Resistance: Ramp Method	DIN 51130 B.G.R. 181		R11	from R9 to R13
Slipperiness Resistance: Ramp Method	DIN 51097 DGUV Information 207-006		A+B	from A to C
Slipperiness Resistance: B.C.R.	D.M. N.236 14/6/89		μ > 0,40	μ > 0,40
Slipperiness Resistance: Pendulum	ENV 12633 BOE N.74 del 2006		Class 3	from Class 0 to Class 3
Slipperiness Resistance: Pendulum	BS7976-2:2002 / BSEN13036-4:2011		>36	0 - 24 Slippery; 25 - 35 Moderately slippery; 36+ Low slipping risk
Dynamic coefficient of friction (DCOF)	ANSI A137.1:2012		>0,42	≥ 0,42

* 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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• **Static test - Load test on the element resting on 4 pedestals**	**Standard of reference**	**Value declared**
Concentrated static breaking load (centre of panel)*	EN 12825	≥ 7,0 kN кH
Concentrated static breaking load (centre of side)*		≥ 6,0 kN кH
Concentrated static breaking load (diagonal)*		≥ 6,0 kN кH
The specimen tested consists of a raised floor panel measuring 600x600 mm with thickness 20 mm, in porcelain stoneware. The panel was tested by placing it on four adjustable-height plastic pedestals 100 mm tall.		
A similar static load test was performed following an in-house procedure based on some of the recommendations of the 2003 edition of the UNI EN 12825 standard, for indoor raised floors with 5 pedestals. The slab was tested by placing it on 5 plastic pedestals, with one pedestal in the centre of the slab and the others in the 4 corners.		
Element permanent deformation test	EN 12825	Test passed
• Dynamic load - Hard body impact test	EN 12825	Test failed
• Dynamic load - Soft body impact test	EN 12825	Test passed
Vertical load test on pedestal	EN 12825	Test results declared by the pedestal's supplier

TYPE OF TEST	**TEST OUTCOME**		
• **Static test - Load test on the element**	**Standard of reference**	**Value declared**	**Classification**
Breaking strength **	EN 1339 ANNEX F	Classe del carico di rottura 110 Classe di resistenza a flessione 2	U11
** Values refer to the test methods for plain concrete pavings and complementary pieces			

*The breaking strain value (expressed in Newtons [N]) is the force required to break the panel in the test points.

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