



Sizes форматы	120x278 cm 47 1/4"x109 1/2" ± 6mm	120x240 cm 47 1/4"x94 1/2" ± 9mm	75x150 cm 29 1/2"x59" ± 9.5mm	120x120 cm 47 1/4"x47 1/4" ± 9mm	45x90 cm 17 3/4"x35 3/8" ± 9mm	75x75 cm 29 1/2"x29 1/2" ± 9.5mm	60x60 cm 23 5/8"x23 5/8" ± 9mm	30x60 cm 11 3/4"x23 5/8" ± 9mm	60x120 cm 60x120 cm Lastra 20mm ± 20mm	60x60 cm 60x60 cm Lastra 20mm ± 20mm	30x60 cm 0"x0" ± 20mm
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TECHNICAL FEATURES / CARATTERISTICHE TECNICHE				Requirements for nominal size N Requisiti per dimensione nominale N			MARVEL STONE				
				7 cm ≤ N < 15 cm		N ≥ 15 cm		Polished	Matt	Textured	Textured 20 mm
				(mm)	(%)	(mm)	(mm)				
Regularity features	Length and width Размеры сторон	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	±0.3% ±1.0mm	±0.3% ±1.0mm	±0.3% ±1.0mm	±0.3% ±1.0mm		
			± 0,5 (**)	± 5 (**)	± 0,5 (**)	±5.0% ±0.5mm	±5.0% ±0.5mm	±5.0% ±0.5mm	±5.0% ±0.5mm		
			± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	±0.3% ±0.8mm	±0.3% ±0.8mm	±0.3% ±0.8mm	±0.3% ±0.8mm		
			± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	±0.3% ±1.5mm	±0.3% ±1.5mm	±0.3% ±1.5mm	±0.3% ±1.5mm		
	Surface flatness Плоскостность	ISO 10545-2	c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	±0.3% ±1.5mm	±0.4% ±1.8mm	Not applicable	Not applicable		
			e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0						
				EN 14411 annex G (Group Bla) EN 14411 appendice G (Gruppo Bla)	ISO 13006 annex G (Group Bla) ISO 13006 appendice G (Gruppo Bla)						
Structural features	Water absorption level (in% by mass) Водопоглощение (come % della massa)	ISO 10545-3	E _B ≤ 0,5% Individual max 0,6% E _B ≤ 0,5% Valore max singolo 0,6%			≤0.1%	≤0.1%	≤0.1%	≤0.1%		
Bulk mechanical features	Breaking strength Разрушающее усилие	ISO 10545-4	S ≥ 1300 N			S ≥ 1500 N	S ≥ 1500 N	S ≥ 1500 N	S ≥ 10000 N		
	Modulus of Rupture Предел прочности при изгибе		R ≥ 35 N/mm ²			R ≥ 40 N/mm ²	R ≥ 40 N/mm ²	R ≥ 40 N/mm ²	R ≥ 45 N/mm ²		
	Impact resistance, as coefficient of restitution Resistenza all'impatto, espresso come coefficiente di restituzione	ISO 10545-5	Declare a value Dichiarare un valore	Test method available Metodo di prova disponibile		≥0.55	≥0.55	≥0.55	≥0.55		
Surface mechanical features	Mohs hardness Твёрдость по МООСy	EN 101 ⁽¹⁾	-			MOHS 5	MOHS 6	MOHS 7	MOHS 8		
	Resistance to deep abrasion of unglazed tiles (removed volume) Resistenza all'abrasione profonda delle piastrelle non smaltate (volume materiale asportato)	ISO 10545-6	≤ 175 mm ³			≤150mm ³	≤150mm ³	≤150mm ³	≤150mm ³		
Thermo-igrometric features	Linear Thermal Expansion Coefficient Температурный коэффициент линейного расширения	ISO 10545-8	Declare a value Dichiarare un valore	Test method available Metodo di prova disponibile		≤7 1/mk	≤7 1/mk	≤7 1/mk	≤7 1/mk		
	Thermal shock resistance Термическая стойкость	ISO 10545-9	Pass according to EN ISO 10545-1 Test superato in accordo con ISO 10545-1	Test method available Metodo di prova disponibile		Resiste	Resiste	Resiste	Resiste		
	Expansion due to humidity (mm/m) Dilatazione all'umidità (in mm/m)	ISO 10545-10	Declare a value Dichiarare un valore	Test method available Metodo di prova disponibile		≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)		
	Frost resistance Морозостойкость	ISO 10545-12	Pass according to EN ISO 10545-1 Test superato in accordo con ISO 10545-1	Required Metodo di prova richiesto		Resiste	Resiste	Resiste	Resiste		
Physical properties	Bond strength/adhesion for improved cementitious adhesives Прочность сцепления	EN 1348	Declare a value Dichiarare un valore	-		≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)	≥1.0 N/mm ² (Class C2 - EN 12004)		
	Reaction to fire Огнестойкость	-	Class A1 or A1 _{fl} Classe A1 oppure A1 _{fl}	-		A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}		
Chemical features	Resistance to household chemicals and swimming pool salts Стойкость к химикатам, используемым в быту и для бассейнов	ISO 10545-13	Minimum Class B (UB for unglazed tiles) Classe minima B (UB per piastrelle non smaltate)			UA	UA	UA	UA		
	Resistance to low concentrations of acids and alkalis Спротивление кислотам и щелочам низкой концентрации		Declare a class Dichiarare una classe	Manufacturer is to state classification Secondo la classificazione indicata dal fabbricante		ULA	ULA	ULA	ULA		
	Resistance to high concentrations of acids and alkalis Спротивление кислотам и щелочам высокой концентрации		Declare a class Dichiarare una classe	Test method available Metodo di prova disponibile		0	UHA	UHA	UHA		
	Resistance to staining for glazed tiles Resistenza alle macchie piastrelle smaltate	ISO 10545-14	Declare a class Dichiarare una classe	Test method available Metodo di prova disponibile		5	5	5	5		
Safety features	Barefoot Ramp Test Метод наклонной плоскости (босыми ногами)	DIN 51097	Declare a value Dichiarare un valore	-		0	A	A+B+C	A+B+C		
	Shod Ramp Test Метод наклонной плоскости (в обуви)	DIN 51130	Declare a value Dichiarare un valore	-		0	R9	R11	R11		
	Pendulum Friction Test Метод маятника	UNE-ENV 12633 BS 7976-2002	Declare a value Dichiarare un valore	-		Class 0	Class 1	Class 3	Class 3		
Safety features	Coefficient of friction (COF) Coefficiene di attrito	B.C.R.A. Rep. CEC/81	D. M. 236/89 del 14/06/89 μ > 0,40 per elemento scivolante cuoio su pavimentazione asciutta μ > 0,40 per elemento scivolante gomma dura su pavimentazione bagnata			>0.40Asciutto <0.40Bagnato	>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato		
	Dynamic Coefficient of Friction Динамический коэффициент трения	ANSI A137.1 - 2012	ANSI A.137.1 Requires a minimum value of 0.42 for commercial areas that are likely to be wet.			<0.42Wet	>0.42Wet	>0.42Wet	>0.42Wet		
	Static Coefficient of Friction Статический коэффициент трения	ASTM C1028 - 2007	The Ceramic Tiles Institute Identifies Tile Slip Resistant when SCOF ≥ 0,60			≥0.60Dry 0.50/0.60Wet	≥0.60Dry ≥ 0.60Wet	≥0.80Dry ≥ 0.80Wet	≥0.80Dry ≥ 0.80Wet		
	Pendulum Friction Test Метод маятника	AS/NZS 4586 - 2013	Declared Classification of the pedestrian surface materials according to the Wet Pendulum Test			ClassP0	Class P3 on demand	ClassP3	ClassP4		

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

(**) The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (W).

(***) The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (W).

(****) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (W).

c.c. The maximum permissible deviation from centre curvature, in % or mm, related to diagonal calculated from the work sizes (W).

e.c. The maximum permissible deviation from edge curvature, in % or mm, related to the corresponding work sizes (W).

w The maximum permissible deviation from warpage, in % or mm, related to diagonal calculated from the work sizes (W).

(1) Requirements european standard EN 176.

(2) Determination of slip resistance of pedestrian surfaces; it does not cover sports surfaces and road surfaces for vehicles (skid resistance).

Anti-slip performance is guaranteed at the time of delivery of the product