



Sizes форматы	45x90 cm 17 3/4"x35 3/8" ± 9mm	22.5x90 cm 8 7/8"x35 3/8" ± 9mm	15x90 cm 5 7/8"x35 3/8" ± 9mm	60x60 cm 23 5/8"x23 5/8" ± 9mm	30x60 cm 11 3/4"x23 5/8" ± 9mm	60x60 cm 60x60 cm Lastra 20mm ± 20mm
------------------	--------------------------------------	---------------------------------------	-------------------------------------	--------------------------------------	--------------------------------------	--

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE				Requirements for nominal size N Requisiti per dimensione nominale N			SUNROCK			
				7 cm ≤ N < 15 cm		N ≥ 15 cm		Matt	Textured	Textured 20 mm
				(mm)	(%)	(mm)	(mm)			
Regularity features	Length and width Размеры сторон Thickness Толщина Straightness of sides Straightness of sides Rectangularity (Measurement only on short edges when L/I ≥ 3) Ortogonalità (Misurazione da condurre solo sui lati corti quando ≥ L/I 3)	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	±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		
			± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	±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		
	Surface flatness Плоскостность	ISO 10545-2	c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	±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%		
Bulk mechanical features	Breaking strength Разрушающее усилие	ISO 10545-4	S ≥ 1300 N			S ≥ 2000 N	S ≥ 2000 N	S ≥ 10000 N		
	Modulus of Rupture Предел прочности при изгибе		R ≥ 35 N/mm ²			R ≥ 40 N/mm ²	R ≥ 45 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		
Surface mechanical features	Mohs hardness Твёрдость по МООСy	EN 101 ⁽¹⁾	-			MOHS 7	MOHS 8	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		
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		
	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		
	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)		
	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		
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)		
	Reaction to fire Огнестойкость	-	Class A1 or A1 _{fl} Classe A1 oppure 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		
	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		
	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		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		
Safety features	Barefoot Ramp Test Метод наклонной плоскости (босыми ногами)	DIN 51097	Declare a value Dichiarare un valore	-		A	A+B+C	A+B+C		
	Shod Ramp Test Метод наклонной плоскости (в обуви)	DIN 51130	Declare a value Dichiarare un valore	-		R9	R11	R11		
	Pendulum Friction Test Метод маятника	UNE-ENV 12633 BS 7976-2002	Declare a value Dichiarare un valore	-		Class 1	Class 3	Class 3		
Safety features		Coefficient of friction (COF) Coefficiene di attrito	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		
			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	
			Static Coefficient of Friction Статический коэффициент трения	ASTM C1028 - 2007	The Ceramic Tiles Institute Identifies Tile Slip Resistant when SCOF ≥ 0,60		≥0.60Dry ≥ 0.60Wet	≥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		Class P3 on demand	ClassP4	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