



Sizes	75x150 cm 29 1/2"x59" ± 9.5mm	45x90 cm 17 3/4"x35 3/8" ± 9mm	60x60 cm 23 5/8"x23 5/8" ± 9mm	30x60 cm 11 3/4"x23 5/8" ± 9mm	
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TECHNICAL FEATURES / TECHNICAL FEATURES				Requirements for nominal size N			MEK
				Requisiti per dimensione nominale N			
				7 cm ≤ N < 15 cm	N ≥ 15 cm		Matt
				(mm)	(%)	(mm)	
Regularity features		Length and width Length and width	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	±0.3% ±1.0mm
		Thickness Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	±5.0% ±0.5mm
		Straightness of sides Straightness of sides		± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	±0.3% ±0.8mm
		Rectangularity (Measurement only on short edges when L/l ≥ 3) Ortogonalità (Misurazione da condurre solo sui lati corti quando ≥ L/l 3)		± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	±0.3% ±1.5mm
	Surface flatness Surface flatness			c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	±0.4% ±1.8mm
		e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0			
		w. ± 0,75	w. ± 0,5	w. ± 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) Water absorption level (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%	
Bulk mechanical features		Breaking strength Breaking strength	ISO 10545-4	S ≥ 1300 N		S ≥ 1500 N	
		Modulus of Rupture Modulus of Rupture		R ≥ 35 N/mm ²		R ≥ 40 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	
Surface mechanical features		Mohs hardness Mohs hardness	EN 101 ⁽¹⁾	-		MOHS 6	
		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	
Thermo-igrometric features		Linear Thermal Expansion Coefficient Linear Thermal Expansion Coefficient	ISO 10545-8	Declare a value Dichiarare un valore	Test method available Metodo di prova disponibile	≤7 1/mk	
		Thermal shock resistance Thermal shock resistance	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	
		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)	
		Frost resistance Frost resistance	ISO 10545-12	Pass according to EN ISO 10545-1 Test superato in accordo con ISO 10545-1	Required Metodo di prova richiesto	Resiste	
Physical properties		Bond strength/adhesion for improved cementitious adhesives Bond Strength	EN 1348	Declare a value Dichiarare un valore	-	≥1.0 N/mm ² (Class C2 - EN 12004)	
		Reaction to fire Reaction to fire	-	Class A1 or A1 _{fl} Classe A1 oppure A1 _{fl}	-	A1 - A1 _{fl}	
Chemical features		Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum Class B (UB for unglazed tiles) Classe minima B (UB per piastrelle non smaltate)		UA	
		Resistance to low concentrations of acids and alkalis		Declare a class Dichiarare una classe	Manufacturer is to state classification Secondo la classificazione indicata dal fabbricante	ULA	
		Resistance to high concentrations of acids and alkalis		Declare a class Dichiarare una classe	Test method available Metodo di prova disponibile	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	UA	
Safety features		Barefoot Ramp Test Barefoot Ramp Test	DIN 51097	Declare a value Dichiarare un valore	-	A	
		Shod Ramp Test Shod Ramp Test	DIN 51130	Declare a value Dichiarare un valore	-	R10	
		Pendulum Friction Test Pendulum Friction Test	UNE-ENV 12633 BS 7976-2002	Declare a value Dichiarare un valore	-	Class 1	
Safety features		Coefficient of friction (COF) Coefficiente 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	
		Dynamic Coefficient of Friction Dynamic Coefficient of Friction	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	
		Static Coefficient of Friction Static Coefficient of Friction	ASTM C1028 - 2007	The Ceramic Tiles Institute Identifies Tile Slip Resistant when SCOF ≥ 0,60		≥0.60Dry ≥0.60Wet	
		Pendulum Friction Test Pendulum Friction Test	AS/NZS 4586 - 2013	Declared Classification of the pedestrian surface materials according to the Wet Pendulum Test		Class P3 on demand	

(*) 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