



Sizes	60x120 cm 23 5/8"x47 1/4" ± 10mm	60x60 cm 23 5/8"x23 5/8" ± 10mm	45x45 cm 17 3/4"x17 3/4" ± 8mm
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	Caratteristica tecnica Characteristics	Metodo di prova Test Method	Requisiti per dimensione nominale N Requirements for nominal size N			PRIVILEGE				
			7 cm ≤ N < 15 cm		N ≥ 15 cm		Matt	Matt ± 8mm 45x45 cm	Polished	Polished ± 8mm 45x45 cm
			(mm)	(%)	(mm)	(mm)				
Regularity features Regularity characteristics	Length and width Length and width	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	± 0.2% ± 0.8 mm	Suitable for	± 0.2% ± 0.8 mm	± 0.2% ± 0.8 mm	
	Thickness Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	± 5.0% ± 0.5 mm	± 5.0% ± 0.5 mm	± 5.0% ± 0.5 mm	± 5.0% ± 0.5 mm	
	Straightness of sides Straightness of sides		± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	± 0.2% ± 0.8 mm	Suitable for	± 0.2% ± 0.8 mm	± 0.2% ± 0.8 mm	
	Ortogonalità (Misurazione da condurre solo sui lati corti quando L/l ≥ 3) Rectangularity (Measurement only on short edges when L/l ≥ 3)		± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	± 0.2% ± 0.8 mm	Suitable for	± 0.2% ± 0.8 mm	± 0.2% ± 0.8 mm	
Surface flatness Surface flatness	Surface flatness Surface flatness		c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	± 0.3% ± 1.3 mm	± 0.3% ± 1.3 mm	± 0.3% ± 1.3 mm	± 0.3% ± 1.3 mm	
			e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0					
			w. ± 0,75	w. ± 0,5	w. ± 2,0					
Structural features Structural features	Water absorption level (come % della massa) Water absorption level (in% by mass)	ISO 10545-3	$F_B \leq 0,5\%$ Valore massimo 0,6% - Individual Maximum 0,6%			≤ 0.1%	≤ 0.1%	≤ 0.1%	≤ 0.1%	
		ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%							
Bulk mechanical features Bulk mechanical features	Breaking strength Breaking strength	ISO 10545-4	S ≥ 700N (per spessore < 7,5mm - for thickness < 7,5mm) S ≥ 1300N (per spessore ≥ 7,5mm - for thickness ≥ 7,5mm)			S ≥ 2000 N	S ≥ 1500 N	S ≥ 2000 N	S ≥ 1500 N	
	Modulus of Rupture Modulus of Rupture		R ≥ 35 N/mm ²			R ≥ 45 N/mm ²	R ≥ 45 N/mm ²	R ≥ 45 N/mm ²	R ≥ 45 N/mm ²	
	Resistenza a Flessione ed al Carico di Rottura Bending Strength and Breaking Load	EN 1339 Annex F	-							
Surface mechanical features Surface mechanical features	Resistenza all'impatto, espresso come coefficiente di restituzione Impact resistance, as coefficient of restitution	ISO 10545-5	Valore dichiarato Declared value			≥ 0.55	≥ 0.55	≥ 0.55	≥ 0.55	
	Mohs hardness Mohs hardness	EN 101	-			Suitable for	Suitable for	MOHS 5	MOHS 5	
Surface mechanical features Surface mechanical features	Resistance to deep abrasion of unglazed tiles (removed volume) Resistance to deep abrasion of unglazed tiles (removed volume)	ISO 10545-6	≤ 175 mm ³			≤ 150mm ³	≤ 150mm ³	≤ 150mm ³	≤ 150mm ³	
	Linear Thermal Expansion Coefficient Coefficient of linear thermal expansion	ISO 10545-8	Valore dichiarato Declared value			≤ 7 1/mk	≤ 7 1/mk	≤ 7 1/mk	≤ 7 1/mk	
Caratteristiche Termogrametriche Thermo-igrometric features	Thermal shock resistance Thermal shock resistance	ISO 10545-9	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste	Resiste	Resiste	
	Dilatazione all'umidità (in mm/m) Moisture expansion (in mm/m)	ISO 10545-10	Valore dichiarato Declared value			≤ 0.01% (0.1 mm/m)	≤ 0.01% (0.1 mm/m)	≤ 0.01% (0.1 mm/m)	≤ 0.01% (0.1 mm/m)	
	Frost resistance Frost resistance	ISO 10545-12	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste	Resiste	Resiste	
Physical properties Physical properties	Bond Strength Bond strength/adhesion for improved cementitious adhesives	EN 1348	Valore dichiarato Declared value			≥ 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 Reaction to fire	-	Classe A1 oppure A1_{fl} Class A1 or A1 _{fl}			A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}	
Chemical features Chemical features	Resistance to household chemicals and swimming pool salts Resistance to household chemicals and swimming pool salts	ISO 10545-13	Classe minima B Minimum Class B			UA	UA	UA	UA	
	Resistance to low concentrations of acids and alkalis Resistance to low concentrations of acids and alkalis		Classe dichiarata Declared Class			ULA	ULA	ULA	ULA	
	Resistance to high concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis	Classe dichiarata Declared Class			UHA	UHA	0	0		
Safety features Safety characteristics	Shod Ramp Test Shod Ramp Test	DIN 51130	Classe dichiarata Declared Class			R09	R09	0	0	
	Barefoot Ramp Test Barefoot Ramp Test	DIN 51097	Declared value Valore dichiarato			A	A	0	0	
	Pendulum Friction Test Pendulum Friction Test	BS 7976	PTV 36 classifies the surface as "low slip risk"							
		AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test							
	UNE-ENV 12633	Valore dichiarato Declared value			0	0	0	0		

* Deviazione ammissibile, in % oppure mm, della dimensione media di ogni piastrella (2 oppure 4 lati) dalla dimensione di fabbricazione (W).
The permissible deviation, in % or mm, of the average size for each tile (2 or 4 sides) from work size (W).

** Deviazione ammissibile, in % oppure mm, dello spessore medio di ogni piastrella dallo spessore riportato nella dimensione di fabbricazione (W).
The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (W).

*** Deviazione massima ammissibile di rettilineità, in % oppure mm, in rapporto alle dimensioni di fabbricazione (W) corrispondenti.
The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (W).

**** Deviazione massima ammissibile di ortogonalità, in % oppure mm, in rapporto alle dimensioni di fabbricazione (W) corrispondenti.
The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (W).

c.c. Deviazione massima ammissibile della curvatura del centro, in % oppure mm, in rapporto alla diagonale calcolata secondo le dimensioni di fabbricazione (W).
The maximum permissible deviation from centre curvatures, in % or mm, related to diagonal calculated from the work sizes (W).

e.c. Deviazione massima ammissibile della curvatura dello spigolo, in % oppure mm, in rapporto alle dimensioni di fabbricazione (W) corrispondenti.
The maximum permissible deviation from edge curvatures, in % or mm, related to the corresponding work sizes (W).

w. Deviazione massima ammissibile dello svergolamento, in % oppure mm, in rapporto alla diagonale calcolata secondo le dimensioni di fabbricazione (W).
The maximum permissible deviation from warpage, in % or mm, related to diagonal calculated from the work sizes (W).

Determinazione della resistenza allo scivolamento delle superfici pedonabili; non si applica alle pavimentazioni sportive ed alle pavimentazioni stradali veicolari.
(1) Determination of slip resistance of pedestrian surfaces; it does not cover sports surfaces and road surfaces for vehicles (skid resistance).
Le prestazioni anti-scivolo vengono garantite al momento della consegna del prodotto.
(2) Anti-slip performance is guaranteed at the time of delivery of the product.
However, tiles with a DCOF of 0.42 or greater are not necessarily suitable for all projects.
(3) The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers' guidelines and recommendations."

(4) For further details, please refer to outdoor design general catalogue.
(5) Only for products with 20 mm thickness.