



Formats	60x60 cm	30x60 cm
Sizes	23 5/8"x23 5/8"	11 3/4"x23 5/8"
	± 9mm	± 9mm

	Caratteristica tecnica Characteristics	Metodo di prova Test Method	Requisiti per dimensione nominale N Requirements for nominal size N			WARP FLOOR		
			7 cm ≤ N < 15 cm		N ≥ 15 cm	Matt	Matt rectified	
			(mm)	(%)	(mm)			
Caractéristiques de régularité Regularity characteristics	 Longueur et largeur Length and width	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	Suitable for	± 0.3% ± 1.0 mm	
			Épaisseur Thickness	± 0,5 (**)	± 5 (**)	± 0,5 (**)	± 5.0% ± 0.5 mm	± 5.0% ± 0.5 mm
			Straightness of sides Straightness of sides	± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	Suitable for	± 0.3% ± 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 (****)	Suitable for	± 0.3% ± 1.5 mm
	 Planimétrie Surface flatness		c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	± 0.4% ± 1.8 mm	± 0.4% ± 1.8 mm	
		e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0				
		w. ± 0,75	w. ± 0,5	w. ± 2,0				
Structural characteristics Structural features	 Masse d'eau absorbée (come % della massa) Water absorption level (in % by mass)	ISO 10545-3	$E_B \leq 0,5\%$ Valore massimo 0,6% - Individual Maximum 0,6%			≤ 0.1%	≤ 0.1%	
		ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%					
Caractéristiques mécaniques massives Bulk mechanical features	 Force de rupture Breaking strength	ISO 10545-4	$S \geq 700N$ (per spessore < 7,5mm - for thickness < 7,5mm) $S \geq 1300N$ (per spessore ≥ 7,5mm - for thickness ≥ 7,5mm)			$S \geq 1500 N$	$S \geq 1500 N$	
			Résistance à La Flexion Modulus of Rupture	$R \geq 35 N/mm^2$			$R \geq 40 N/mm^2$	$R \geq 40 N/mm^2$
	 Resistenza a Flessione ed al Carico di Rottura Bending Strength and Breaking Load	EN 1339 Annex F	-					
	 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	
Caractéristiques mécaniques superficielles Surface mechanical features	 Dureté Mohs Mohs hardness	EN 101	-			Conforme	Conforme	
	 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	
Caratteristiche Termogrometriche Thermo-igrometric features	 Coefficient de dilatation thermique linéique Coefficient of linear thermal expansion	ISO 10545-8	Valore dichiarato Declared value			≤ 7 1/mk	≤ 7 1/mk	
	 Résistance aux écarts de température Thermal shock resistance	ISO 10545-9	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			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)	
	 Résistance au gel Frost resistance	ISO 10545-12	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste	
Proprietà Fisiche Physical properties	 Effort de cohésion 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)	
	 Réaction au feu Reaction to fire	-	Classe A1 oppure A1_{fl} Class A1 or A1 _{fl}			A1 - A1 _{fl}	A1 - A1 _{fl}	
Caractéristiques chimiques Chemical features	 Résistance aux produits chimiques à usage domestique et aux adjuvants pour piscine Resistance to household chemicals and swimming pool salts	ISO 10545-13	Classe minima B Minimum Class B			UA	UA	
			Résistance aux acides et aux alcalis à basse concentration Resistance to low concentrations of acids and alkalis	Classe dichiarata Declared Class			ULA	ULA
			Résistance aux acides et aux alcalis à haute concentration Resistance to high concentrations of acids and alkalis	Classe dichiarata Declared Class			UHA	UHA
	 Resistenza alle macchie piastrelle smaltate Resistance to staining for glazed tiles	ISO 10545-14	Classe dichiarata Declared Class			5	5	
Caractéristiques de sécurité Safety characteristics	 Test de la rampe « chaussé » Shod Ramp Test	DIN 51130	Classe dichiarata Declared Class			R09	R09	
		Test de la rampe à pieds nus Barefoot Ramp Test	DIN 51097	Declared value Valore dichiarato			A	A
		Méthode du Pendule 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			Class 1 PTV > 36 Dry PTV < 25 Wet	Class 1 PTV > 36 Dry PTV = 25-35 Wet
		Coefficiente di attrito Coefficient of friction (COF)	B.C.R.A. Rep. CEC/81	D. M. 236/89 del 14/06/89 $\mu > 0,40$ per elemento scivolante cuoio su pavimentazione asciutta $\mu > 0,40$ per elemento scivolante gomma dura su pavimentazione bagnata			>0.40 Asciutto >0.40 Bagnato	>0.40 Asciutto >0.40 Bagnato
		Coefficient de frottement dynamique Dynamic coefficient of friction (DCOF)	ANSI A.137.1	ANSI A.137.1-2017 Requires a minimum value of 0.42 for level interior space expected to be walked upon when wet. (3)			> 0.42 Wet	> 0.42 Wet

* 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).

(2) Le prestazioni anti-slip vengono garantite al momento della consegna del prodotto.

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.