



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

	Characteristics Characteristics	Test Method Test Method	Requirements for nominal size N			FRAY FLOOR	
			Requirements for nominal size N				
			7 cm ≤ N < 15 cm (mm)	N ≥ 15 cm (%)	(mm)		
Regularity characteristics Regularity characteristics		Length and width Length and width	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	Compliant	
		Thickness Thickness	± 0,5 (**)	± 5 (**)	± 0,5 (**)	Compliant	
		Straightness of sides Straightness of sides	± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	-	
		Rectangularity (Measurement only on short edges when L/l ≥ 3) Rectangularity (Measurement only on short edges when L/l ≥ 3)	± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	-	
		Surface flatness Surface flatness	c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	Compliant	
			e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0		
Structural features Structural features		Water absorption level (in% by mass) Water absorption level (in% by mass)	E _B ≤ 0,5% Individual Maximum 0,6% - Individual Maximum 0,6%			≤ 0,5%	
			Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%				
Bulk mechanical features Bulk mechanical features		Breaking strength Breaking strength	S ≥ 700N (per spessore < 7,5mm - for thickness < 7,5mm) S ≥ 1300N (per spessore ≥ 7,5mm - for thickness ≥ 7,5mm)			≥ 350lbf. avg	
		Modulus of Rupture Modulus of Rupture	R ≥ 35 N/mm ²			-	
		Bending Strength and Breaking Load Bending Strength and Breaking Load	-				
Surface mechanical features Surface mechanical features		Mohs hardness Mohs hardness	-			MOHS 6	
		Resistance to deep abrasion of unglazed tiles (removed volume) Resistance to deep abrasion of unglazed tiles (removed volume)	≤ 175 mm ³			≤ 150mm ³	
Thermo-igrometric features Thermo-igrometric features		Coefficient of linear thermal expansion Coefficient of linear thermal expansion	-			Declared value	
		Thermal shock resistance Thermal shock resistance	-			Pass according to EN ISO 10545-1	
		Moisture expansion (in mm/m) Moisture expansion (in mm/m)	-			Declared value	
		Frost resistance Frost resistance	-			Pass according to EN ISO 10545-1	
Physical properties Physical properties		Bond strength/adhesion for improved cementitious adhesives Bond strength/adhesion for improved cementitious adhesives	-			Declared value	
		Reaction to fire Reaction to fire	-			Class A1 or A1 _{fl} Class A1 or A1 _{fl}	
Chemical features Chemical features		Resistance to household chemicals and swimming pool salts Resistance to household chemicals and swimming pool salts	-			Minimum Class B Minimum Class B	
		Resistance to low concentrations of acids and alkalis Resistance to low concentrations of acids and alkalis	-			Declared Class Declared Class	
		Resistance to high concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis	-			Declared Class Declared Class	
Safety characteristics Safety characteristics		Resistance to staining for glazed tiles Resistance to staining for glazed tiles	-			Declared Class Declared Class	
		Shod Ramp Test Shod Ramp Test	-			Declared Class Declared Class	
		Barefoot Ramp Test Barefoot Ramp Test	-			Declared value Declared value	
		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	
		Coefficient of friction (COF) Coefficient of friction (COF)	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	
Dynamic coefficient of friction (DCOF) 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)			

* 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).

(1) Determinazione della resistenza allo scivolamento delle superfici pedonabili; non si applica alle pavimentazioni sportive ed alle pavimentazioni stradali veicolari.
 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.