



Formate Sizes	75x150 cm 29 1/2"x59" ± 9.5mm	120x120 cm 47 1/4"x47 1/4" ± 9mm	45x90 cm 17 3/4"x35 3/8" ± 9mm	75x75 cm 29 1/2"x29 1/2" ± 9.5mm	60x60 cm 23 5/8"x23 5/8" ± 9mm	30x60 cm 11 3/4"x23 5/8" ± 9mm
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	Caratteristica tecnica Characteristics	Metodo di prova Test Method	Requisiti per dimensione nominale N Requirements for nominal size N			DWELL		
			7 cm ≤ N < 15 cm		N ≥ 15 cm	Matt rectified	Polished rectified	
			(mm)	(%)	(mm)			
Caratteristiche di Regolarità Regularity characteristics	 <b>Länge und Breite</b> Length and width  <b>Stärke</b> Thickness  <b>Geradlinigkeit der Kanten</b> Straightness of sides  <b>Ortogonalità (Misurazione da condurre solo sui lati corti quando L/I ≥ 3)</b> Rectangularity (Measurement only on short edges when L/I ≥ 3)	ISO 10545-2	± 0,9 (*)	± 0,6 (*)	± 2,0 (*)	±0.3% ±1.0mm	±0.3% ±1.0mm	
			± 0,5 (**)	± 5 (**)	± 0,5 (**)	±5.0% ±0.5mm	±5.0% ±0.5mm	
			± 0,75 (***)	± 0,5 (***)	± 1,5 (***)	±0.3% ±0.8mm	±0.3% ±0.8mm	
			± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	±0.3% ±1.5mm	±0.3% ±1.5mm	
	 <b>Ebenflächigkeit</b> Surface flatness			c.c. ± 0,75 e.c. ± 0,75 w. ± 0,75	c.c. ± 0,5 e.c. ± 0,5 w. ± 0,5	c.c. ± 2,0 e.c. ± 2,0 w. ± 2,0	±0.4% ±1.8mm	±0.3% ±1.5mm
Struktureigenschaften Structural features	 <b>Wasseraufnahme (come % della massa)</b> Water absorption level (in % by mass)	ISO 10545-3	E <sub>B</sub> ≤ 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%			≤0.5%	≤0.5%	
Starke mechanische Eigenschaften Bulk mechanical features	 <b>Bruchlast</b> Breaking strength  <b>Biegefestigkeit</b> Modulus of Rupture	ISO 10545-4	S ≥ 700N (per spessore < 7,5mm - for thickness < 7,5mm) S ≥ 1300N (per spessore ≥ 7,5mm - for thickness ≥ 7,5mm)			S ≥ 1500 N	S ≥ 1500 N	
			R ≥ 35 N/mm <sup>2</sup>			R ≥ 40 N/mm <sup>2</sup>	R ≥ 40 N/mm <sup>2</sup>	
	 <b>Resistenza a Flessione ed al Carico di Rottura</b> Bending Strength and Breaking Load	EN 1339 Annex F	-			-	-	
	 <b>Resistenza all'impatto, espresso come coefficiente di restituzione</b> Impact resistance, as coefficient of restitution	ISO 10545-5	Valore dichiarato Declared value			≥0.55	≥0.55	
Meccaniche Eigenschaften der Oberfläche Surface mechanical features	 <b>Ritzhärte nach Mohs</b> Mohs hardness   <b>Resistance to deep abrasion of unglazed tiles (removed volume)</b> Resistance to deep abrasion of unglazed tiles (removed volume)	EN 101	-			MOHS 6	MOHS 5	
		ISO 10545-6	≤ 175 mm <sup>3</sup>			≤150mm <sup>3</sup>	≤150mm <sup>3</sup>	
Caratteristiche Termogrometriche Thermo-igrometric features	 <b>Wärmeausdehnungskoeffizient</b> Coefficient of linear thermal expansion   <b>Temperaturwechselbeständigkeit</b> Thermal shock resistance   <b>Dilatazione all'umidità (in mm/m)</b> Moisture expansion (in mm/m)   <b>Frostbeständigkeit</b> Frost resistance	ISO 10545-8	Valore dichiarato Declared value			≤7 1/mk	≤7 1/mk	
		ISO 10545-9	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste	
		ISO 10545-10	Valore dichiarato Declared value			≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	
		ISO 10545-12	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste	
Physikalische Eigenschaften Physical properties	 <b>Haftfestigkeit</b> Bond strength/adhesion for improved cementitious adhesives   <b>Brandverhalten</b> Reaction to fire	EN 1348	Valore dichiarato Declared value			≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	
		-	Classe A1 oppure A1 <sub>fl</sub> Class A1 or A1 <sub>fl</sub>			A1 - A1 <sub>fl</sub>	A1 - A1 <sub>fl</sub>	
Chemischen Eigenschaften Chemical features	 <b>Beständigkeit gegen Haushaltschemikalien und Zusatzstoffe für Schwimmbäder</b> Resistance to household chemicals and swimming pool salts  <b>Beständigkeit gegen niedrigkonzentrierte Säuren und Laugen</b> Resistance to low concentrations of acids and alkalis  <b>Beständigkeit gegen hochkonzentrierte Säuren und Laugen</b> Resistance to high concentrations of acids and alkalis	ISO 10545-13	Classe minima B Minimum Class B			A	A	
			Classe dichiarata Declared Class			LA	LA	
			Classe dichiarata Declared Class			HA	0	
	 <b>Resistenza alle macchie piastrelle smaltate</b> Resistance to staining for glazed tiles	ISO 10545-14	Classe dichiarata Declared Class			5	5	
Sicherheitsmerkmale Safety characteristics		<b>Rampenmethode mit Schuhen</b> Shod Ramp Test	DIN 51130	Classe dichiarata Declared Class			R9	N.C.
		<b>Rampenmethode barfuß</b> Barefoot Ramp Test	DIN 51097	Declared value Valore dichiarato			A	0
		<b>Pendelmethode</b> Pendulum Friction Test	BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"			PTV ≥ 36 Wet on demand / su richiesta	≥ 36 Dry < 24 Wet
			AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test			P3 on demand	-
			UNE-ENV 12633	Valore dichiarato Declared value			C2 on demand	-
		<b>Coefficiente di attrito</b> 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			>0.40Asciutto >0.40Bagnato	>0.40Asciutto <0.40Bagnato
		<b>Dinamischer Reibungskoeffizient</b> 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)			>0.42Wet	<0.42Wet

\* 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-scivolo vengono garantite al momento della consegna del prodotto.  
Anti-slip performance is guaranteed at the time of delivery of the product.

(3) However, tiles with a DCOF of 0.42 or greater are not necessarily suitable for all projects.  
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.