



Sizes FORMATI	120x278 cm 47 1/4"x109 1/2" ± 6mm	120x240 cm 47 1/4"x94 1/2" ± 9mm	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	120x120 cm 47 1/4" x 47 1/4" ± 20mm
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TECHNICAL FEATURES / CARATTERISTICHE TECNICHE				Requirements for nominal size N Requisiti per dimensione nominale N			BOOST		
				7 cm ≤ N < 15 cm		N ≥ 15 cm		Matt	Grip
				(mm)	(%)	(mm)	(mm)		
Regularity characteristics	<p><b>Length and width</b> Lunghezza e larghezza</p> <p><b>Thickness</b> Spessore</p> <p><b>Straightness of sides</b> Rettilinearità degli spigoli</p> <p><b>Rectangularity (Measurement only on short edges when L/l ≥ 3)</b> Ortogonalità (Misurazione da condurre solo sui lati corti quando ≥ L/l 3)</p>	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		
	<p><b>Surface flatness</b> Planarità</p>		c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	±0.4% ±1.8mm	±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	<p><b>Water absorption level (in% by mass)</b> Massa d'acqua assorbita (come % della massa)</p>	ISO 10545-3	E <sub>B</sub> ≤ 0,5% Individual max 0,6% E <sub>B</sub> ≤ 0,5% Valore max singolo 0,6%			≤0.1%	≤0.1%		
Bulk mechanical features	<p><b>Breaking strength</b> Sforzo di rottura</p>	ISO 10545-4	S ≥ 1300 N			S ≥ 1500 N	S ≥ 1500 N		
	<p><b>Modulus of Rupture</b> Resistenza alla flessione</p>		R ≥ 35 N/mm <sup>2</sup>			R ≥ 40 N/mm <sup>2</sup>	R ≥ 40 N/mm <sup>2</sup>		
	<p><b>Impact resistance, as coefficient of restitution</b> Resistenza all'impatto, espresso come coefficiente di restituzione</p>	ISO 10545-5	<b>Declared value</b> Dichiarare un valore	<b>Test method available</b> Metodo di prova disponibile		≥0.55	≥0.55		
Surface mechanical features	<p><b>Mohs hardness</b> Durezza Mohs</p>	EN 101 <sup>(1)</sup>	-			MOHS 6	MOHS 8		
	<p><b>Resistance to deep abrasion of unglazed tiles (removed volume)</b> Resistenza all'abrasione profonda delle piastrelle non smaltate (volume materiale asportato)</p>	ISO 10545-6	≤ 175 mm <sup>3</sup>			≤150mm <sup>3</sup>	≤150mm <sup>3</sup>		
Thermo-igrometric features	<p><b>Coefficient of linear thermal expansion</b> Coefficiente di dilatazione termica lineare</p>	ISO 10545-8	<b>Declared value</b> Dichiarare un valore	<b>Test method available</b> Metodo di prova disponibile		≤7 1/mk	≤7 1/mk		
	<p><b>Thermal shock resistance</b> Resistenza agli sbalzi termici</p>	ISO 10545-9	<b>Pass according to EN ISO 10545-1</b> Test superato in accordo con ISO 10545-1	<b>Test method available</b> Metodo di prova disponibile		Resiste	Resiste		
	<p><b>Moisture expansion (in mm/m)</b> Dilatazione all'umidità (in mm/m)</p>	ISO 10545-10	<b>Declared value</b> Dichiarare un valore	<b>Test method available</b> Metodo di prova disponibile		≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)		
	<p><b>Frost resistance</b> Resistenza al gelo</p>	ISO 10545-12	<b>Pass according to EN ISO 10545-1</b> Test superato in accordo con ISO 10545-1	<b>Required</b> Metodo di prova richiesto		Resiste	Resiste		
Physical properties	<p><b>Bond strength/adhesion for improved cementitious adhesives</b> Adesione a trazione con adesivi cementizi migliorati</p>	EN 1348	<b>Declared value</b> Dichiarare un valore	-		≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)		
	<p><b>Reaction to fire</b> Reazione al fuoco</p>	-	<b>Class A1 or A1<sub>fl</sub></b> Classe A1 oppure A1 <sub>fl</sub>	-		A1 - A1 <sub>fl</sub>	A1 - A1 <sub>fl</sub>		
Chemical features	<p><b>Resistance to household chemicals and swimming pool salts</b> Resistenza ai prodotti chimici di uso domestico ed agli additivi per piscina</p>	ISO 10545-13	<b>Minimum Class B (UB for unglazed tiles)</b> Classe minima B (UB per piastrelle non smaltate)			UA	UA		
	<p><b>Resistance to low concentrations of acids and alkalis</b> Resistenza a basse concentrazioni di acidi e alcali</p>		<b>Declare a class</b> Dichiarare una classe	<b>Manufacturer is to state classification</b> Secondo la classificazione indicata dal fabbricante		ULA	ULA		
	<p><b>Resistance to high concentrations of acids and alkalis</b> Resistenza ad alte concentrazioni di acidi e alcali</p>		<b>Declare a class</b> Dichiarare una classe	<b>Test method available</b> Metodo di prova disponibile		UHA	UHA		
	<p><b>Resistance to staining for glazed tiles</b> Resistenza alle macchie piastrelle smaltate</p>	ISO 10545-14	<b>Declare a class</b> Dichiarare una classe	<b>Test method available</b> Metodo di prova disponibile		5	5		
Safety characteristics	<p><b>Barefoot Ramp Test</b> Metodo della rampa a piedi nudi</p>	DIN 51097	<b>Declared value</b> Dichiarare un valore	-		A+B	A+B+C		
	<p><b>Shod Ramp Test</b> Metodo della rampa calzato</p>	DIN 51130	<b>Declared value</b> Dichiarare un valore	-		R10	R11		
	<p><b>Pendulum Friction Test</b> Metodo del Pendolo</p>	UNE-ENV 12633 BS 7976-2002	<b>Declared value</b> Dichiarare un valore	-		C2 On demand	Class 3		
Safety characteristics	<p><b>Coefficient of friction (COF)</b> Coefficiente di attrito</p> <p><b>Dynamic coefficient of friction (DCOF)</b> Coefficiente di attrito dinamico</p> <p><b>Static Coefficient of Friction</b> Coefficiente di attrito statico</p> <p><b>Pendulum Friction Test</b> Metodo del Pendolo</p>	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		
		ANSI A137.1 - 2012	<b>ANSI A.137.1 Requires a minimum value of 0.42 for commercial areas that are likely to be wet.</b>			>0.42Wet	>0.42Wet		
		ASTM C1028 - 2007	<b>The Ceramic Tiles Institute Identifies Tile Slip Resistant when SCOF ≥ 0,60</b>			≥0.60Dry ≥0.60Wet	≥0.70Dry ≥0.70Wet		
		AS/NZS 4586 - 2013	<b>Declared Classification of the pedestrian surface materials according to the Wet Pendulum Test</b>			Class P3	ClassP4		

(\*) 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