



<b>Sizes</b> Sizes	<b>40x80 cm</b> 15 3/4" x 31 1/2" ± 10mm	<b>40x80 cm</b> 15 3/4" x 31 1/2" ± 8.5mm	
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	Characteristics Characteristics	Test Method Test Method	Requirements for nominal size N			ROOM WALL		
			Requirements for nominal size N			Matt rectified	Matt rectified ± 10mm 40x80 cm	
			7 cm ≤ N < 15 cm	N ≥ 15 cm				
			(mm)	(%)	(mm)			
<b>Regularity characteristics</b> Regularity characteristics		ISO 10545-2	Length and width Length and width	± 0,75 (*)	± 0,5 (*)	± 2,0 (*)	±0.3% ±1.0mm	±0.3% ±1.0mm
			Thickness Thickness	± 0,5 (**)	± 10 (**)	± 0,5 (**)	±10.0% ±0.5mm	±10.0% ±0.5mm
			Straightness of sides Straightness of sides	± 0,5 (***)	± 0,3 (***)	± 1,5 (***)	±0.3% ±0.8mm	±0.3% ±0.8mm
			Rectangularity Rectangularity	± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	±0.3% ±1.5mm	±0.3% ±1.5mm
	Surface flatness Surface flatness		c.c. + 0,75 - 0,50 e.c. + 0,75 - 0,50 w. ± 0,75	c.c. + 0,5 - 0,3 e.c. + 0,5 - 0,3 w. ± 0,5	c.c. + 2,0 - 1,5 e.c. + 2,0 - 1,5 w. ± 2,0	±0.3% ±1.5mm	Not applicable	
<b>Structural features</b> Structural features		ISO 10545-3	Water absorption level (in % by mass) Water absorption level (in % by mass)	<b>Average &gt;10%. When the average &gt; 20%, this shall be indicated. Individual value &gt; 9%</b> Average >10%. When the average > 20%, this shall be indicated. Individual value > 9%			10% < EB ≤ 20%	10% < EB ≤ 20%
<b>Bulk mechanical features</b> Bulk mechanical features		ISO 10545-4	Breaking strength Breaking strength	S ≥ 600N			S ≥ 600 N	S ≥ 600 N
			Modulus of Rupture Modulus of Rupture	R ≥ 15 N/mm <sup>2</sup>			R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>
<b>Thermo-igrometric features</b> Thermo-igrometric features		ISO 10545-8	Coefficient of linear thermal expansion Coefficient of linear thermal expansion	Declared value Declared value			≤ 7 1/mk	≤ 7 1/mk
		ISO 10545-9	Thermal shock resistance Thermal shock resistance	Pass according to EN ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste
		ISO 10545-10	Moisture expansion (in mm/m) Moisture expansion (in mm/m)	Declared value Declared value			≤ 0.06% (0.6mm/m)	≤ 0.06% (0.6mm/m)
		ISO 10545-11	Crazing resistance: glazed tiles Crazing resistance: glazed tiles	Pass according to EN ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste
<b>Physical properties</b> Physical properties		EN 1348	Bond strength/adhesion for improved cementitious adhesives Bond strength/adhesion for improved cementitious adhesives	Declared value Declared value			≥ 1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥ 1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)
		-	Reaction to fire Reaction to fire	Class A1 Class A1			A1	A1
<b>Chemical features</b> Chemical features		ISO 10545-13	Resistance to household chemicals and swimming pool salts Resistance to household chemicals and swimming pool salts	Minimum Class B Minimum Class B			A	A
			Resistance to low concentrations of acids and alkalis Resistance to low concentrations of acids and alkalis	Declared Class Declared Class			LA	LA
			Resistance to high concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis	Declared Class Declared Class			HA	HA
		ISO 10545-14	Resistance to staining for glazed tiles Resistance to staining for glazed tiles	Minimum Class 3 Minimum Class 3			5	5
		ISO 10545-15	Rilascio di sostanze pericolose: Cadmio (in mg/dm <sup>2</sup> ) e Piombo (in mg/dm <sup>2</sup> ) Rilascio di sostanze pericolose: Cadmio (in mg/dm <sup>2</sup> ) e Piombo (in mg/dm <sup>2</sup> )	Declared value Declared value			≤ 0.01mg/dm <sup>2</sup> Cd ≤ 0.1mg/dm <sup>2</sup> Pb	≤ 0.01mg/dm <sup>2</sup> Cd ≤ 0.1mg/dm <sup>2</sup> Pb

\* 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 curvature, 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 curvature, 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.