



Sizes	50x110 cm	50x110 cm	40x80 cm	40x80 cm	30.5x56 cm
Sizes	19 5/8"x43 1/4"	19 5/8"x43 1/4"	15 3/4" x 31 1/2"	15 3/4" x 31 1/2"	12"x22"
	± 11mm	± 8.5mm	± 8.5mm	± 10mm	± 9.5mm

	Caratteristica tecnica Characteristics	Metodo di prova Test Method	Requisiti per dimensione nominale N Requirements for nominal size N			3D WALL DESIGN								
			7 cm ≤ N < 15 cm		N ≥ 15 cm	Matt rectified	Matt rectified ± 8.5mm 40x80 cm, 50x110 cm	Matt rectified ± 9.5mm 30.5x56 cm	Shiny rectified	Shiny rectified ± 10mm 40x80 cm	Shiny rectified ± 11mm 50x110 cm			
			(mm)	(%)	(mm)									
Regularity features 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	±0.3% ±1.0mm	±0.3% ±1.0mm	±0.3% ±1.0mm	±0.3% ±1.0mm		
			Thickness Thickness	± 0,5 (**)	± 10 (***)	± 0,5 (***)	±10.0% ±0.5mm	±10.0% ±0.5mm	±10.0% ±0.5mm	±10.0% ±0.5mm	±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	±0.3% ±0.8mm	±0.3% ±0.8mm	±0.3% ±0.8mm	±0.3% ±0.8mm		
			Rectangularity Rectangularity	± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	±0.3% ±1.5mm	±0.3% ±1.5mm	±0.3% ±1.5mm	±0.3% ±1.5mm	±0.3% ±1.5mm	±0.3% ±1.5mm		
Structural features Structural features		ISO 10545-3	Water absorption level (come % della massa) Water absorption level (in % by mass)	<b>Media &gt;10%. Se questo valore &gt; 20%, deve essere indicato. Valore Singolo &gt; 9%</b> Average >10%. When the average > 20%, this shall be indicated. Individual value > 9%			10%<EB≤20%	10%<EB≤20%	10%<EB≤20%	10%<EB≤20%	10%<EB≤20%	10%<EB≤20%		
			Bulk mechanical features Bulk mechanical features	ISO 10545-4	Breaking strength Breaking strength	S ≥ 600N			S ≥ 600 N	S ≥ 600 N	S ≥ 600 N	S ≥ 600 N	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>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>
Caratteristiche Termogrometriche Thermo-igrometric features		ISO 10545-8	Linear Thermal Expansion Coefficient Coefficient of linear thermal expansion	Valore dichiarato Declared value			≤7 1/mk	≤7 1/mk	≤7 1/mk	≤7 1/mk	≤7 1/mk	≤7 1/mk		
			ISO 10545-9	Thermal shock resistance Thermal shock resistance	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste	Resiste	Resiste	Resiste	Resiste	
				ISO 10545-10	Dilatazione all'umidità (in mm/m) Moisture expansion (in mm/m)	Valore dichiarato Declared value			≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)
					ISO 10545-11	Resistenza al cavillo: piastrelle smaltate Crazing resistance: glazed tiles	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1			Resiste	Resiste	Resiste	Resiste	Resiste
Physical properties Physical properties		EN 1348	Bond Strength Bond strength/adhesion for improved cementitious adhesives	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)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥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	Classe A1 Class A1			A1	A1	A1	A1	A1	A1		
Chemical features Chemical features		ISO 10545-13	Resistance to household chemicals and swimming pool salts Resistance to household chemicals and swimming pool salts	Classe minima B Minimum Class B			A	A	A	A	A	A		
			Resistance to low concentrations of acids and alkalis Resistance to low concentrations of acids and alkalis	Classe dichiarata Declared Class			LA	LA	LA	LA	LA	LA		
			Resistance to high concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis	Classe dichiarata Declared Class			HA	HA	HA	HA	HA	HA		
	ISO 10545-14	Resistenza alle macchie piastrelle smaltate Resistance to staining for glazed tiles	Classe 3 minima Minimum Class 3			5	5	5	5	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> )	Valore dichiarato 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	≤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	≤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 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.

