



Sizes	50x110 cm 19 5/8"x43 1/4" ± 8.5mm	30.5x91.5 cm 12"x36" ± 8.5mm	30.5x56 cm 12"x22" ± 8.5mm
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	Caratteristica tecnica Characteristics	Metodo di prova Test Method	Requisiti per dimensione nominale N Requirements for nominal size N			MARVEL WALL								
			7 cm ≤ N < 15 cm		N ≥ 15 cm									
			(mm)	(%)			(mm)							
Regularity features Regularity characteristics		Length and width Length and width	± 0,75 (*)	± 0,5 (*)	± 2,0 (*)	±0.3% ±1.0mm								
						Thickness Thickness	± 0,5 (**)	± 10 (**)	± 0,5 (**)	±10.0% ±0.5mm				
										Straightness of sides Straightness of sides	± 0,5 (***)	± 0,3 (***)	± 1,5 (***)	±0.3% ±0.8mm
														Rectangularity Rectangularity
	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									
Structural features Structural features		Water absorption level (come % della massa) Water absorption level (in% by mass)	ISO 10545-3	Media >10%. Se questo valore > 20%, deve essere indicato. Valore Singolo > 9% Average >10%. When the average > 20%, this shall be indicated. Individual value > 9%	10% < EB ≤ 20%									
Bulk mechanical features Bulk mechanical features		Breaking strength Breaking strength	ISO 10545-4	S ≥ 600N	S ≥ 600 N									
		Modulus of Rupture Modulus of Rupture	R ≥ 15 N/mm ²	R ≥ 15 N/mm ²										
Caratteristiche Termo-igrometriche Thermo-igrometric features		Linear Thermal Expansion Coefficient Coefficient of linear thermal expansion	ISO 10545-8	Valore dichiarato Declared value	≤ 7 1/mk									
		Thermal shock resistance Thermal shock resistance	ISO 10545-9	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1	Resiste									
		Dilatazione all'umidità (in mm/m) Moisture expansion (in mm/m)	ISO 10545-10	Valore dichiarato Declared value	≤ 0.06% (0.6mm/m)									
		Resistenza al cavillo: piastrelle smaltate Crazing resistance: glazed tiles	ISO 10545-11	Test superato in accordo con ISO 10545-1 Pass according to EN ISO 10545-1	Resiste									
Physical properties Physical properties		Bond Strength Bond strength/adhesion for improved cementitious adhesives	EN 1348	Valore dichiarato Declared value	≥ 1.0 N/mm ² (Class C2 - EN 12004)									
		Reaction to fire Reaction to fire	-	Classe A1 Class A1	A1									
Chemical features Chemical features		Resistance to household chemicals and swimming pool salts Resistance to household chemicals and swimming pool salts	ISO 10545-13	Classe minima B Minimum Class B	A									
		Resistance to low concentrations of acids and alkalis Resistance to low concentrations of acids and alkalis		Classe dichiarata Declared Class	LA									
		Resistance to high concentrations of acids and alkalis Resistance to high concentrations of acids and alkalis		Classe dichiarata Declared Class	HA									
		Resistenza alle macchie piastrelle smaltate Resistance to staining for glazed tiles	ISO 10545-14	Classe 3 minima Minimum Class 3	5									
		Rilascio di sostanze pericolose: Cadmio (in mg/dm²) e Piombo (in mg/dm²) Rilascio di sostanze pericolose: Cadmio (in mg/dm ²) e Piombo (in mg/dm ²)	ISO 10545-15	Valore dichiarato Declared value	≤ 0.01mg/dm ² Cd ≤ 0.1mg/dm ² 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).

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).

(1) 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.

(2) 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.

