



Formatos Sizes	<b>50x110 cm</b> 19 5/8"x43 1/4" ± 8.5mm	<b>30.5x91.5 cm</b> 12"x36" ± 8.5mm	<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	
-------------------	--	---	--	---	--

	Caratteristica tecnica Characteristics	Método de ensayo Test Method	Requisitos por tamaño nominal Requirements for nominal size N			MARVEL PRO WALL	
			7 cm ≤ N < 15 cm	N ≥ 15 cm		Shiny rectified	3D Shiny rectified
			(mm)	(%)	(mm)		
<b>Características de tamaño</b> Regularity characteristics	<b>Longitud y anchura</b> Length and width	ISO 10545-2	± 0,75 (*)	± 0,5 (*)	± 2,0 (*)	±0.3% ±1.0mm	±0.3% ±1.0mm
	<b>Grosor</b> Thickness		± 0,5 (**)	± 10 (**)	± 0,5 (**)	±10.0% ±0.5mm	±10.0% ±0.5mm
	<b>Rectitud de los cantos</b> Straightness of sides		± 0,5 (***)	± 0,3 (***)	± 1,5 (***)	±0.3% ±0.8mm	±0.3% ±0.8mm
	<b>Rectangularity</b> Rectangularidad		± 0,75 (****)	± 0,5 (****)	± 2,0 (****)	±0.3% ±1.5mm	±0.3% ±1.5mm
	<b>planaridad</b> 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	±0.3% ±1.5mm
<b>Características estructurales</b> Structural features	<b>Absorción de agua (como % de la masa) (come % della massa)</b> Water absorption level (in % by mass)	ISO 10545-3	<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%
<b>Características mecánicas de masa</b> Bulk mechanical features	<b>Resistencia de rotura</b> Breaking strength	ISO 10545-4	S ≥ 600N			S ≥600 N	S ≥600 N
	<b>Resistencia a la Flexión</b> 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>Caratteristiche Termo-Igrometriche</b> Thermo-igrometric features	<b>Coefficiente de dilatación térmica lineal</b> Coefficient of linear thermal expansion	ISO 10545-8	<b>Valore dichiarato</b> Declared value			≤7 1/mk	≤7 1/mk
	<b>Resistencia al choque térmico</b> Thermal shock resistance	ISO 10545-9	<b>Supera el ensayo de acuerdo con ISO 10545-1</b> Pass according to EN ISO 10545-1			Resiste	Resiste
	<b>Dilatazione all'umidità (in mm/m)</b> Moisture expansion (in mm/m)	ISO 10545-10	<b>Valore dichiarato</b> Declared value			≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)
	<b>Resistenza al cavillo: piastrelle smaltate</b> Crazing resistance: glazed tiles	ISO 10545-11	<b>Supera el ensayo de acuerdo con ISO 10545-1</b> Pass according to EN ISO 10545-1			Resiste	Resiste
<b>Características físicas</b> Physical properties	<b>Resistencia a la tracción de los adhesivos cementosos</b> Bond strength/adhesion for improved cementitious adhesives	EN 1348	<b>Valore dichiarato</b> Declared value			≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)
	<b>Reacción al fuego</b> Reaction to fire	-	<b>Clase A1</b> Class A1			A1	A1
<b>Características químicas</b> Chemical features	<b>Resistencia a los productos químicos de uso doméstico y a los aditivos para piscinas</b> Resistance to household chemicals and swimming pool salts	ISO 10545-13	<b>Clase mínima B</b> Minimum Class B			A	A
	<b>Resistencia a los ácidos y bases de baja concentración</b> Resistance to low concentrations of acids and alkalis		<b>Clase declarada</b> Declared Class			LA	LA
	<b>Resistencia a los ácidos y bases de alta concentración</b> Resistance to high concentrations of acids and alkalis		<b>Clase declarada</b> Declared Class			HA	HA
	<b>Resistenza alle macchie piastrelle smaltate</b> Resistance to staining for glazed tiles	ISO 10545-14	<b>Clase 3 mínima</b> Minimum Class 3			5	5
	<b>Rilascio di sostanze pericolose: Cadmio (in mg/dm<sup>2</sup>) e Piombo (in mg/dm<sup>2</sup>)</b> Rilascio di sostanze pericolose: Cadmio (in mg/dm <sup>2</sup> ) e Piombo (in mg/dm <sup>2</sup> )	ISO 10545-15	<b>Valore dichiarato</b> 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 dimensione 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 dimensione 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.  
 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.

