

**TECHNICAL SHEET**

<b>PRODUCT</b>	NAME: MATRIX COLLECTION SIZE: 11.7x35.2" BRANCH: 22/11/18
<b>TYPE OF PRODUCT</b>	TYPE: Dry-pressed ceramic tiles, with water absorption $E_w > 10\%$ TYPE WHITE BODY USE: For internal and external walls. GROUP: BIII
<b>REFERENCED RULES</b>	ISO-13006:2012 and UNE EN 14411:2013

Characteristics	Test Method	Requirements	Values Compliance
<b>A) DIMENSIONS AND SURFACE QUALITY</b>			
<b>Length and width</b>			
The work size shall be chosen as follows for: a) modular tiles:	EN ISO 10545-2	In order to allow a nominal joint width of between 2 and 5 mm	PASS
b) non-modular tiles:	EN ISO 10545-2	So that the difference between the work size and the nominal size is not more than 2% (maximum 5 mm)	PASS
The permissible deviation of the average size for each tile (2 or 4 sides) from the work size (W) Requirements for nominal size N $7\text{cm} \leq N < 15\text{cm}$ $N \geq 15\text{cm}$	EN ISO 10545-2	$\pm 0,75\text{ mm}$ $\pm 2,0\text{ mm} \text{ ó } \pm 0,5\%$	PASS
<b>Thickness</b>			
a) The thickness shall be specified b) The permissible deviation, of the average thickness of each tile from the work size thickness Requirements for nominal size N $7\text{cm} \leq N < 15\text{cm}$ $N \geq 15\text{cm}$	EN ISO 10545-2	Declared thickness $\pm 0,5\text{ mm}$ $\pm 0,5\text{ mm} \text{ ó } \pm 10\%$	SEE BOX PASS
<b>Straightness of sides (facial sides)</b>			
The maximum permissible deviation from straightness, related to the corresponding work sizes. Requirements for nominal size N $7\text{cm} \leq N < 15\text{cm}$ $N \geq 15\text{cm}$	EN ISO 10545-2	$\pm 0,5\text{ mm}$ $\pm 1,5\text{ mm} \text{ ó } \pm 0,3\%$	PASS
<b>Rectangularity</b>			
The maximum permissible deviation from rectangularity, related to the corresponding work sizes. Requirements for nominal size N $7\text{cm} \leq N < 15\text{cm}$ $N \geq 15\text{cm}$	EN ISO 10545-2	$\pm 0,75\text{ mm}$ $\pm 2,0\text{ mm} \text{ ó } \pm 0,5\%$	PASS
<b>Surface flatness</b>			
The maximum permissible deviation from flatness			
a) centre curvature, related to diagonal calculated from the work sizes. Requirements for nominal size N $7\text{cm} \leq N < 15\text{cm}$ $N \geq 15\text{cm}$	EN ISO 10545-2	$+ 0,75 / - 0,50\text{ mm}$ $+ 2,0 / - 1,5\text{ mm}$ $\text{ó } + 0,5\% / - 0,3\%$	PASS
b) edge curvature, related to the corresponding work sizes. Requirements for nominal size N $7\text{cm} \leq N < 15\text{cm}$ $N \geq 15\text{cm}$	EN ISO 10545-2	$+ 0,75 / - 0,50\text{ mm}$ $+ 2,0 / - 1,5\text{ mm}$ $\text{ó } + 0,5\% / - 0,3\%$	PASS
c) warpage, related to diagonal calculated from the work sizes. Requirements for nominal size N $7\text{cm} \leq N < 15\text{cm}$ $N \geq 15\text{cm}$	EN ISO 10545-2	$\pm 0,75\text{ mm}$ $\pm 2,0\text{ mm} \text{ ó } \pm 0,5\%$	PASS
<b>Surface quality</b>			
	EN ISO 10545-2	A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles.	PASS
<b>B) PHYSICAL PROPERTIES</b>			
<b>Water absorption (in % by mass)</b>			
	EN ISO 10545-3	$E_w > 10\%$ . When the average exceeds 20%, this shall be indicated. Individual minimum value 9%)	PASS
<b>Breaking strength, for:</b>			
a) Thickness $\geq 7,5\text{ mm}$	EN ISO 10545-4	Not less than 600 N	$> 600\text{ N}$
b) Thickness $< 7,5\text{ mm}$	EN ISO 10545-4	Not less than 200 N	$> 200\text{ N}$
<b>Flexural tensile strength or modulus of rupture</b>			
a) Thickness $\geq 7,5\text{ mm}$	EN ISO 10545-4	Minimum 12 N/mm <sup>2</sup>	PASS
b) Thickness $< 7,5\text{ mm}$	EN ISO 10545-4	Minimum 15 N/mm <sup>2</sup>	PASS
<b>Coefficient of linear thermal expansion</b>			
from ambient temperature to 100°C	EN ISO 10545-8	Declared Value	$5,5-5,3 \cdot 10^{-6} / ^\circ\text{C}$
<b>Thermal shock resistance</b>			
Internal uses External uses	EN ISO 10545-9	Pass according to EN ISO 10545-9	PASS NOT PASS
<b>Crazing resistance</b>			
Glazed tiles	EN ISO 10545-11	Pass according to EN ISO 10545-11	PASS
<b>Frost resistance</b>			
Internal uses External uses	EN ISO 10545-12	Pass according to EN ISO 10545-12	PASS NOT PASS
<b>Bond strength/adhesion, for:</b>			
cementitious adhesives	EN 12004:2007 +A1: 2012, 4.1	Declared Value	Type C1 $> 0,5\text{ N/mm}^2$
<b>Reaction to fire</b>			
		Class A1	A1
<b>C) CHEMICAL PROPERTIES</b>			
<b>Resistencia a productos quimicos</b>			
Resistance to household chemicals and swimming pool slats	EN ISO 10545-13	Minimum GB	GA
<b>Resistance to staining, for:</b>			
Glazed tiles	EN ISO 10545-14	Minimum 3	5



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# MATRIX

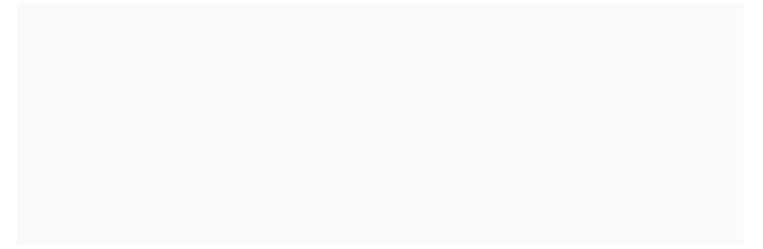


MATRIX BLANCO CONTOUR  
Code: MAT-BLN-CON  
Size: 11.7x35.2"

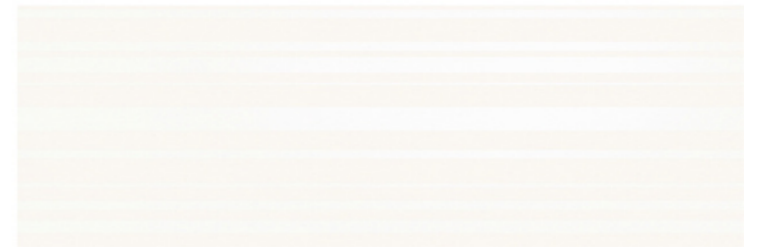


MATRIX BLANCO BLOCK  
Code: MAT-BLN-BLO  
Size: 11.7x35.2"





MATRIX BLANCO  
Code: MAT-BLN-1236  
Size: 11.7x35.2"



MATRIX BLANCO STREAK  
Code: MAT-BLN-STR  
Size: 11.7x35.2"





MATRIX BLANCO LINES  
Code: MAT-BLN-LIN  
Size: 11.7x35.2"



MATRIX BLANCO WAVE  
Code: MAT-BLN-WAV  
Size: 11.7x35.2"

