

# TECHNICAL SHEET

<b>BRAND</b>	<b>CERAMICAS APARICI, S.A.</b> Ctra. Castellón - Alcora, km 12 12130 San Juan de Moró (Castellón) SPAIN
<b>PRODUCT</b>	<b>NAME: GLASS TITANIUM BRICK &amp; TITANIUM PAVE</b> <b>FORMAT (cm): 20,1X20,1</b> <b>BATCH: 26/04/2021</b>
<b>TYPE OF PRODUCT</b>	<b>TYPE: Dry-pressed ceramic tiles, with water absorption <math>E_b &gt; 10\%</math> TYPE WHITE BODY</b> <b>USE: For internal walls.</b> <b>GROUP: BIII</b>
<b>REFERENCED RULES</b>	<b>ISO-13006:2012 and UNE EN 14411:2013</b>

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	<b>PASS</b>
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)	<b>PASS</b>
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	$\pm 0,75\text{ mm}$ $\pm 2,0\text{ mm} \text{ ó } \pm 0,5\%$	<b>PASS</b>
<b>Thickness</b>			
a) The thickness shall be specified		Declared thickness	<b>SEE BOX</b>
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	$\pm 0,5\text{ mm}$ $\pm 0,5\text{ mm} \text{ ó } \pm 10\%$	<b>PASS</b>

<b>Straightness of sides (facial sides)</b>			
The maximum permissible deviation from straightness, related to the corresponding work sizes. Requirements for nominal size N 7cm≤N<15cm N≥ 15 cm	EN ISO 10545-2	± 0,5 mm ± 1,5 mm ó ± 0,3%	<b>PASS</b>
<b>Rectangularity</b>			
The maximum permissible deviation from rectangularity, related to the corresponding work sizes. Requirements for nominal size N 7cm≤N<15cm N≥ 15 cm	EN ISO 10545-2	± 0,75 mm ± 2,0 mm ó ± 0,5%	<b>PASS</b>
<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 7cm≤N<15cm N≥ 15 cm	EN ISO 10545-2	+ 0,75 / - 0,50 mm + 2,0 / - 1,5 mm ó + 0,5% / - 0,3%	<b>PASS</b>
b) edge curvature, related to the corresponding work sizes. Requirements for nominal size N 7cm≤N<15cm N≥ 15 cm	EN ISO 10545-2	+ 0,75 / - 0,50 mm + 2,0 / - 1,5 mm ó + 0,5% / - 0,3%	<b>PASS</b>
c) warpage, related to diagonal calculated from the work sizes. Requirements for nominal size N 7cm≤N<15cm N≥ 15 cm	EN ISO 10545-2	± 0,75 mm ± 2,0 mm ó ± 0,5%	<b>PASS</b>
<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.	<b>PASS</b>
<b>B) PHYSICAL PROPERTIES</b>			
<b>Water absorption (in % by mass)</b>			
	EN ISO 10545-3	E <sub>b</sub> > 10%. When the average exceeds 20%, this shall be indicated. Individual minimum value 9%)	<b>PASS</b>

<b>Breaking strength, for:</b>			
a) Thickness $\geq 7,5$ mm	EN ISO 10545-4	Not less than 600 N	<b>&gt;600 N</b>
b) Thickness $< 7,5$ mm	EN ISO 10545-4	Not less than 200 N	<b>&gt;200 N</b>
<b>Flexural tensile strength or modulus of rupture</b>			
a) Thickness $\geq 7,5$ mm	EN ISO 10545-4	Minimum 12 N/mm <sup>2</sup>	<b>PASS</b>
b) Thickness $< 7,5$ mm	EN ISO 10545-4	Minimum 15 N/mm <sup>2</sup>	<b>PASS</b>
<b>Coefficient of linear thermal expansion</b>			
from ambient temperature to 100° C	EN ISO 10545-8	Declared Value	<b>5.5-5.3 10<sup>-6</sup> /°C</b>
<b>Bond strength/adhesion , for:</b>			
cementitious adhesives	EN 12004:2007 +A1: 2012, 4.1	Declared Value	<b>Type C1 &gt;0.5 N/mm<sup>2</sup></b>
<b>Reaction to fire</b>			
		Class A1	<b>A1</b>
<b>C) CHEMICAL PROPERTIES</b>			
<b>Chemical resistance</b>			
<p>In general, you can use any non-aggressive and neutral pH product.</p> <p>In general, we recommend the use of ammonia-based products (NH3) diluted in water, never directly on the piece, is recommended.</p> <p>One cannot use chemically aggressive products.</p> <p>One cannot products with hydrochloric acid (HCl). The remaining acid products should be used with caution in very diluted concentrations.</p> <p>Citric acid and other acidic food products leave stains if left too long to act on the tile. They must be removed as soon as possible.</p> <p>The use of powder products of abrasive action is not recommended.</p> <p>A damp cloth and neutral liquid soap will be enough.</p>			