

# 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: CORTEN SAPPHIRE NATURAL</b> <b>FORMAT (cm): 49,75 x 99,55</b> <b>BATCH:25/02/2020</b>
<b>TYPE OF PRODUCT</b>	<b>TYPE: Dry-pressed ceramic tiles, with water absorption</b> <b><math>E_b \leq 0,5\%</math> PORCELAIN TILE</b> <b>USE: For internal and external walls and floorings</b> <b>GROUP BI<sub>a</sub></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	$\pm 0,9\text{ mm}$ $\pm 2,0\text{ mm} \text{ ó } \pm 0,6\%$	<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	$\pm 0,5\text{ mm}$ $\pm 0,5\text{ mm} \text{ ó } \pm 5\%$	<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	± 0,75 mm ± 1,5 mm ó ± 0,5%	<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 mm ± 2,0 mm ó ± 0,5%	<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 mm ± 2,0 mm ó ± 0,5%	<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	<b>E<sub>b</sub> ≤ 0,5%</b> <b>Individual maximum 0,6%</b>	<b>E<sub>b</sub> ≤ 0,2%</b>
<b>Breaking strength, for:</b>			
Thickness ≥ 7,5 mm	EN ISO 10545-4	Not less than 1.300 N	<b>&gt;2.300 N</b>

<b>Flexural tensile strength or modulus of rupture</b>			
	EN ISO 10545-4	Minimum 35 N/mm <sup>2</sup> Individual minimum 32 N/mm <sup>2</sup>	<b>&gt; 44 N/mm<sup>2</sup></b>
<b>Coefficient of linear thermal expansion</b>			
from ambient temperature to 100° C	EN ISO 10545-8	Declared Value	<b>6.1- 6.9 x10<sup>-6</sup> (°C<sup>-1</sup>)</b>
<b>Abrasión resistance</b>			
Resistance to surface abrasion of <b>glazed tiles</b> intended for use on floors (PEI)	EN ISO 10545-7	Abrasion class	<b>CLASS 4</b>
<b>Thermal shock resistance</b>			
	EN ISO 10545-9	Pass according to EN ISO 10545-9	<b>PASS</b>
<b>Crazing resistance</b>			
Glazed tiles	EN ISO 10545-11	Pass according to EN ISO 10545-11	<b>PASS</b>
<b>Frost resistance</b>			
<b>Interior uses</b>	EN ISO 10545-12	Pass according to EN ISO 10545-12	<b>PASS</b>
<b>Exterior uses</b>			<b>PASS</b>
<b>Bond strength/adhesion , for:</b>			
cementitious adhesives	EN 12004:2007 +A1: 2012, 4.1	Declared Value	<b>Type C2 &gt;1 N/mm<sup>2</sup></b>
<b>Reaction to fire</b>			
		Class A1 <sub>FL</sub> /A1	<b>A1<sub>FL</sub>/A1</b>
<b>C) CHEMICAL PROPERTIES</b>			
<b>Resistance to chemicals</b>			
Resistance to household chemicals and swimming pool slats	EN ISO 10545-13	Minimum GB	<b>GA</b>
<b>Resistance to staining, for:</b>			
Glazed tiles	EN ISO 10545-14	Minimum 3	<b>5</b>