



## TEST REPORT – PORCELANATO PIEDRA -KSS-

TEST ITEM	TEST METHOD	PROVISIONS OF STANDARD	TEST RESULT	JUDGEMENT	
<b>PHYSICAL PROPERTIES</b>					
Water absorption	ISO10545-3	Individual maximum 0.6%	Average:0.23% Individual maximum:0.36%	Pass	
Breaking strength	ISO10545-4	Thickness: > 7.5mm,Not less than 1300N	1899N	Pass	
Modulus of rupture	ISO10545-4	Minimum 35MPa,Individual minimum 32MPa	Average: 39.2MPa Individual minimum: 36.8MPa	Pass	
Impact resistance	ISO10545-5	Test method available	0.85		
Resistance to surface abrasion of glazed tiles	ISO10545-7	Report abrasion class and cycles passed	Class3 Failure visible at 1500 revolutions		
Thermal shock resistance	ISO 10545-9	Test method available	Fully resistant	Pass	
Crazing resistance	ISO 10545-11	Required	Fully resistant	Pass	
Static coefficient of friction	ASTM C 1028	Standard test method for determining de static coefficient of friction	0.88	Pass	
Scratch hardness of surface according to Mohs	EN 15771		6		
<b>Chemical properties</b>					
Resistance To chemicals	Resistance to low concentrations of acids and alkalis	ISO10545-13	Manufacturer to state classification	GLA(V)	
	Resistance to household chemicals and swimming pool salts	ISO10545-13	Minimum GB	GA(V)	Pass
Resistance to staining		ISO10545-14	Minimum Class3	Class5	Pass

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<b>DIMENSIONS AND SURFACE QUALITY</b>					
Length and width		ISO10545-2	The deviation, in percent, of the Average size for each tile(2 or 4 sides)from the work size: $\pm 0.6\%$	-0.04%—0.02%	Pass
			The deviation, in percent, of tire average size for each tile(2 or 4 sides) the average size of the 10 test specimens(20 or 40 sizes): $\pm 0.5\%$	-0.02%~+0.01%	Pass
Thickness	Average Size	ISO10545-2		10.1mm	
	Deviation		The deviation, in percent, of the Average thickness of each tile from the work size thickness: $\pm 5\%$	-0.84%—1-0.52%	Pass
Straightness of sides		ISO10545-2	The maximum deviation from straightness, in percent, related to the corresponding work sizes: $\pm 0.5\%$	-0.04%—1-0.02%	Pass
Rectangularity		ISO10545-2	The maximum deviation from Rectangularity, in percent, related to the corresponding work sizes: $\pm 0.6\%$	-0.17%~+0.09%	Pass
Surface Flatness	Centre curvature	ISO10545-2	Centre curvature, related to diagonal calculated from the work size: $\pm 0.5\%$	+0.02%~+0.06%	Pass
	Edge curvature		<b><math>\pm 0.5\%</math></b> Edge curvature. Related to the corresponding work sizes: $\pm 0.5\%$	+0.04%~+0.13%	Pass
	Warpage		<b><math>\pm 0.5\%</math></b> Warpage, related to diagonal calculated from the work size: $\pm 0.5\%$	-0.16%—0.10%	Pass
Surface quality		ISO10545-2	A minimum of 95% of the tiles shall be free from side defects that would impair the appearance of a major area of tiles	Pass	Pass

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