

## ORBE 600x600x20mm - CARACTÉRISTIQUES TECHNIQUES

TECHNICAL CHARACTERISTICS			Average Values of Production	Standard Values	Result
Test Method	Characteristics	(Requirements according to nominal size N)			
		7 ≤ N < 15 cm	(mm)	N ≥ 15 cm	
			% -- (mm)	% -- (mm)	
EN ISO 10545-2	A.) SIZE AND SURFACE QUALITY	Length and width		597,00-597,00 mm	
		Deviation of the average size of each tile (2 or 4 sides) from the working dimension (W).		0,11%	± 0,6% (± 2mm)
		The average size of each tile (2 or 4 sides) deviates from the average of the dimensions of the test sample 10		0,12%	
		Thickness		20,0mm --- %0,18	± 5% (± 0,5mm)
		Straightness of sides b (surface edges)		0,19%	± 0,5% (± 1,5mm)
		Rectangularity		0,16%	± 0,50% (± 2mm)
		the central curvature associated with the diagonal calculated from the working size)		0,10%	± 0,50% (± 2mm)
		Edge curvature corresponding to the dimension of work)		0,21%	± 0,50% (± 2mm)
		diagonal calculated from the work size-related distortions)		0,10%	± 0,50% (± 2mm)
		Surface quality		96%	(At least 95% of the original surface of the tiles should not have any visible
		EN ISO 10545-3	B.) PHYSICAL PROPERTIES	Water Absorption	
EN ISO 10545-4	Breaking strength(Newton)			10480 N	Thickness ≥7,5mm min. 1300 N Thickness <7,5mm min. 700 N
EN ISO 10545-6 EN ISO 10545-7	Modulus of rupture(N/mm2)			38,6 N/mm2	min. 35 N/mm2
EN ISO 10545-8	Abrasion Resistance (mm3)			Class 3- 1500 transfer	wear class and speed should be reported.
EN ISO 10545-9	Determination of linear thermal expansion			0,34	Declared Value
EN ISO 10545-11 h	Termal shock resistance			Dayanklıdır.	EN ISO 10545-1 g ye göre
EN ISO 10545-12	Determination of crazing resistance			Dayanklıdır.	EN ISO 10545-1 g ye göre
EN ISO 10545-12	Frost resistance			Dayanklıdır.	EN ISO 10545-1 g ye göre
CEN/TS 16165i	Slip Test (bond strength / adhesion)			R 11	Declared Value
EN 12004:2007+A1: 2012 4.1 L	Cement Based adhesives			-	Declared Value
EN 12004:2007+A1: 2012 4.2 L	Dispersion Based Adhesives			-	Declared Value
EN 12004:2007+A1: 2012 4.3 L	Reaction Resin Adhesives			-	Declared Value
EN 1015-12L	Harç Mortar			-	Declared Value
EN ISO 10545- 10	Moisture expansion, in mm/m'e			0,01 mm	Declared Value
EN ISO 10545- 16	(Small Color Differences) (Glazed Tiles)			0,35	Δ E <sub>cmc</sub> < 0,75
EN ISO 10545- 5	(Unglazed Tiles)				Δ E <sub>cmc</sub> < 1,0
-	Impact resistance by measurement of coefficient of restitution			0,8	Declared Value
CEN/TS 15209	Reaction to Fire <b>(Surface roughness)</b>			It is resistant. Class A1 HARD SURFACE	(Class A1 ya da A1 Fl) Declared Value
EN ISO 10545-14	Resistance to stains			Class : 5	Min 3.clas
EN ISO 10545-13	C.) CHEMICAL PROPERTIES			Class: GLA	Declared Value
		Resistance to low concentrations of acids and alkalis		Class: GHA	Declared Value
		Resistance to high concentrations of acids and alkalis		Class: A	Min .clas B
		Resistance to household chemicals and swimming pool salts		Class: A	Min .clas B
EN ISO 10545-15	Disclosure of Hazardous Substances)	cadmium ( mg/dm2)		0,001 mg/ dm2	Declared Value max.0,2
		Lead (mg/dm2)		0,002 mg/ dm2	Declared Value max.0,02
		Other Hazardous Substances)			Declared Value

All of the test results are suitable and confirm with EN 14411