

Çanakkale Seramik Wall Tiles conform to the Turkish and European standards indicated below.



Kaleseramik Çanakkale Kalebodur Seramik Sanayi A.Ş.  
17430 Çan - Çanakkale / Türkiye

05

TS-EN 14411

Ceramic tiles, dry-pressed, for internal and external wall/ceiling finishes

Characteristics

Declared value

Reaction to fire

A1  
without testing 96/603 EEC  
as amended

Flexural tensile strength

>23 N/mm<sup>2</sup>

Thermal shock resistance

Passed

Freeze/thaw resistance  
(frost resistance)

Passed

Release of dangerous substances

NPD

Release of Cadmium

Release of lead

Bond strength

NPD

TS EN	TECHNICAL CHARACTERISTICS		TURKISH and EUROPEAN STANDARD TS-EN 14411 Annex L BIII GL	20*20 3225 WHITE
ISO 10545-2	Deviations from Dimensions	Length and Width (cm)	$\ell \leq 12 \text{ cm. } \pm 0,75 \%$	$\pm \% 0.75$
			$\ell > 12 \text{ cm. } \pm 0.5 \%$	$\pm \% 0.5$
		Thickness (%)	$\pm 10 \%$	$\pm \% 10$
		Rectangularity (%)	Max. $\pm \% 0.5$	$\pm \% 0.5$
		Straightness of Sides (%)	Max. $\pm \% 0.3$	$\pm \% 0.3$
	Surface Flatness (%)		Centre Curvature : $+\% 0.5, -\% 0.3$	$+\% 0.5, -\% 0.3$
			Edge Curvature : $+\% 0.5, -\% 0.3$	$+\% 0.5, -\% 0.3$
		Warpage : $\pm \% 0.5$	$\pm \% 0.5$	
	Surface Quality (%)	5 % Defective	Affirmative	
ISO 10545-3	Water Absorption (%)	Ave.10 %, When the value exceeds 20% this shall be indicated by the manufacturer. Individual min. 9 %	Ave. % 17,4	
ISO 10545-4	Breaking Strength (N)	thickness $\geq 7,5 \text{ mm}$ min. 600 N	-	
		thickness $< 7,5 \text{ mm}$ min. 200 N	721 N	
	Modulus of Rupture (N/mm <sup>2</sup> )	thickness $\geq 7,5 \text{ mm}$ min. 12 N/ mm <sup>2</sup>	23 N/ mm <sup>2</sup>	
		thickness $< 7,5 \text{ mm}$ min. 15 N/ mm <sup>2</sup>		
ISO 10545-8	Linear Thermal Expansion Coefficient (100 °C)	Max. $9 \times 10^{-6} / ^\circ\text{C}$	$6 \times 10^{-6} / ^\circ\text{C}$	
ISO 10545-9	Resistance to Thermal Shock	Required	Affirmative	
ISO 10545-10	Moisture Expansion (mm/m)	0,06 % (0,6 mm/m)	%0,01976	
ISO 10545-11	Crazing Resistance for Glazed Tiles	Required	Affirmative	
ISO 10545-13	Resistance to High/Low Acids and Alkalis	Required	GLA-GLA-GLA-GHA-GHA-GHA	
	Resistance to Household Chemicals	Min. GB	GA	
	Resistance to Swimming Pool Chemicals	Required	GA	
ISO 10545-14	Resistance to Staining	Min. 3	CLASS-5	