



2006

Kaleseramik Çanakkale Kalebodur Seramik Sanayi A.Ş. 17430
Çan - Çanakkale / Türkiye
05

TS-EN 14411 ANNEX G UGL GROUP BI_a

Dry-pressed ceramic tiles for external and internal flooring

Characteristics

Declared values

A1_{fl}

Reaction to fire

(without testing 96/603 EC as amended)

Breaking Strength

>1300 N
TS EN ISO 10545-4

Skid resistance (for pedestrian circulation areas only)

R9 CLASS-

DIN 51130

DIN 51097

Skid resistance (Only for external uses in vehicular circulation areas)

NPD

Freez-thaw resistance

*Resistant to frost
TS EN ISO 10545-12*

*Release of dangerous substances
(Only when requested by national legislation)*

NPD

** Release of Cadmium*

** Release of lead*

EN	TECHNICAL CHARACTERISTICS	TURKISH and EUROPEAN STANDARD TS-EN 14411 ANNEX-G UGL GROUP BI _a	60*60 GMB-U217 ICON GREY		
ISO 10545-2	Length and width (L=cm, S=cm ²)	190 < S ≤ 410±%0.75 S>410±%0.6	±0.4%		
	Thickness	±%5	±4%		
	Rectangularity	±%0.6	±0,4%		
	Straghtness of Sides	±%0.5	±0,3%		
	Surcafe Flatness	±%0.5	±0,3%		
ISO 10545-3	Water Absorbttion	E ≤ 0,5 % Individual max. %0,6	% 0,04		
ISO 10545-4	Breaking strength,in N	Thickness ≥ 7,5 mm ; Not less than 1300	2050 N		
		Thickness < 7,5 mm ; Not less than 700	-		
	Modules of Rupture (N/mm ²)	Min.35 Individual min.32	42 N/mm ²		
ISO 10545-5	Impact resistance	Test method available	AFFIRMATIVE		
ISO 10545-6	Resistance to Deep abrasion-Unglazed Tiles Only	Max.175 mm ³	113 mm ³		
ISO 10545-8	Linear Thermal Expansion Coefficient	Test method available	5.3527E-06		
ISO 10545-9	Resistance to Thermal Shock	Test method available	AFFIRMATIVE		
ISO 10545-12	Frost Resistance	Required	RESISTANT		
ISO 10545-13	<i>Resistance to chemical</i>	manufacturer to state classification	ULA-ULA-ULA		
	<i>Resistance to low concantrations of acids and alkalis</i>				
	unglazed tiles				
	<i>Resistance to high concantrations of acids and alkalis</i>				
	unglazed tiles				
	<i>Resistance to household chemicals and swimming pool salts</i>				
unglazed tiles	Test method available	UHA-UHA-UHA			
ISO 10545-14	<i>Resistance to Staining</i>	Min.UB	UA-UA		
	unglazed tiles				
	Stains leaving a trace (pastes): Green staining agent in light oil				
	Stains having chemical / oxidizing action: Lodine, 13 g/l solution in alcohol				
	Stains forming a film: Olive oil				
DIN 51130 DIN 51097	Ramp Slip resistance (Oil / Wet)	Where required	R-9 Class-		