

EN	TECHNICAL CHARACTERISTICS	TURKISH and EUROPEAN STANDARD TS-EN 14411 ANNEX-G UGL GROUP BI <sub>a</sub>	60*60 Cement-2
ISO 10545-2	Length and width	N ≥ 15 cm ; The permissible deviation of the average size for each tile from the work size (W) ± %0,6 & ± 2,00 mm	
	Thickness	±%0,6 / ±2,0 mm	±%0.4
	Rectangularity	±%5 / ±0,5 mm	±%4
	Straghtness of Sides	±%0,5 / ±2,0 mm	±%0,4
	Surcafe Flatness	±%0,5 / ±1,5 mm	±%0,3
ISO 10545-3	Water Absorbtion	E ≤ 0,5 % Individual max. %0,6	% 0,02
ISO 10545-4	Breaking strength,in N	Thickness ≥ 7,5 mm ; Not less than 1300	3300 N
		Thickness < 7,5 mm ; Not less than 700	-
	Modules of Rupture (N/mm <sup>2</sup> )	Min.35 Individual min.32	55 N/mm <sup>2</sup>
ISO 10545-5	Impact resistance	Test method available	AFFIRMATIVE
ISO 10545-6	Resistance to Deep abrasion-Unglazed Tiles Only	Max.175 mm <sup>3</sup>	120 mm <sup>3</sup>
ISO 10545-8	Linear Thermal Expansion Coefficient	Test method available	AFFIRMATIVE
ISO 10545-9	Resistance to Thermal Shock	Test method available	AFFIRMATIVE
ISO 10545-12	Frost Resistance	Required	RESISTANT
ISO 10545-13	<b>Resistance to chemical</b>		
	<b>Resistance to low concantrations of acids and alkalis</b>	manufacturer to state classification	ULA-ULA-ULA
	unglazed tiles		
	<b>Resistance to high concantrations of acids and alkalis</b>	Test method available	UHA-UHA-UHA
unglazed tiles			
<b>Resistance to household chemicals and swimming pool salts</b>	Min.UB	UA-UA	
unglazed tiles			
ISO 10545-14	<b>Resistance to Staining</b>	manufacturer to state classification	CLASS-5
	unglazed tiles		
DIN 51130 DIN 51097	Ramp Slip resistance (Oil / Wet)	Where required	R- 10 CLASS-B



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Dry-pressed ceramic glazed porcelain tiles, with water absorption  
 $E_b \leq 0,5\%$ , for internal and external wall and floorings

Reaction to fire A1/A1<sub>F,L</sub>

Release of dangerous substances, for:

- Cadmium NPD

- Lead NPD

Breaking strength > 1300 N

Bond strength/adhesion, for:

Cementitious adhesive, type C1 >1,0 N/mm<sup>2</sup>

Dispersion adhesives, type D2 >2,0 N/mm<sup>2</sup>

Reaction resin adhesives, type R2 >1,0 N/mm<sup>2</sup>

Slipperiness, as:

DIN 51130 Declaired at DoP

Durability for:

- internal use: Pass

- external use: freeze-thaw  
resistance Pass