


EN	TECHNICAL CHARACTERISTICS	TURKISH AND EUROPEAN STANDARD TS-EN 14411 / ISO13006 ANNEX G GL GROUP BIa	NAMUR Series	 Kaleseramik Çanakkale Kalebodur Seramik San. A.Ş. 17430 Çan/Çanakkale 5 003CPR-DoP2013 EN 14411 Dry-pressed glazed porcelain tiles, with water absorption $E \leq 0,5\%$, for internal and external wall and floorings			
ISO 10545-2	Length and width	$N \geq 15$ cm ; The permissible deviation of the average size for each tile from the work size (W) $\pm 0,6$ & $\pm 2,00$ mm	$\pm 0,3$	Reaction to fire A1/A1_{FL} Release of dangerous substances, for: Cadmium NPD Lead NPD Breaking strength Thickness $\geq 7,5$mm BS>1300 N Thickness $< 7,5$mm BS>700 N Cementitious adhesive, type C2 $\geq 1,0$ N/mm² Slipperiness, as Declared at DoP Durability for: internal use: Pass external use: freeze-thaw Pass Tactility NPD Thermal Shock Resistance Pass			
	Thickness	± 5 / $\pm 0,5$ mm	± 4				
	Rectangularity	$\pm 0,5$ / $\pm 2,0$ mm	$\pm 0,3$				
	Straightness of Sides	$\pm 0,5$ / $\pm 1,5$ mm	$\pm 0,2$				
	Surface Flatness	$\pm 0,5$ / $\pm 2,0$ mm	$\pm 0,3$				
ISO 10545-3	Water Absorption	$E_b \leq 0,5$ % Individual max. 0,6	$E_v \leq 0,5$ %				
ISO 10545-4	Breaking strength, in N	Thickness $\geq 7,5$ mm ; Not less than 1300 Thickness $< 7,5$ mm ; Not less than 700	>1300 N -				
	Modulus of Rupture (N/mm ²)	Min.35 Individual min.32	>35 N/mm ²				
ISO 10545-5	Impact resistance	Test method available	RESISTANT				
ISO 10545-7	Resistance to Surface Abrasion for Glazed Tile(PEI)	Report abrasion class and cycles passed	Class3 - Class4				
ISO 10545-8	Linear Thermal Expansion Coefficient	Test method available	6.0833E-06				
ISO 10545-9	Resistance to Thermal Shock	Test method available	AFFIRMATIVE				
ISO 10545-11	Crazing Resistance in Glazed Tiles	Required	RESISTANT				
ISO 10545-12	Frost Resistance	Required	RESISTANT				
ISO 10545-13	Resistance to chemicals	manufacturer to state classification	AFFIRMATIVE				
	Resistance to low concentrations of acids and alkalis						
	Glazed tiles						
	Resistance to high concentrations of acids and alkalis			Test method available	AFFIRMATIVE		
	Glazed tiles						
ISO 10545-14	Resistance to household chemicals and swimming pool salts	Min.GB	GA-GA				
	Glazed tiles						
	Resistance to Staining						
ISO 10545-14	Glazed tiles	Min.Class 3 for Glazed Tile	5 5 5				
	<i>Stains leaving a trace (pastes): Green staining agent in light oil</i>						
	<i>Stains having chemical / oxidizing action: Lodine, 13 g/l solution in alcohol</i>						
	<i>Stains forming a film: Olive oil</i>						
DIN 51130 DIN 51097	Ramp Slip resistance (Oil / Wet)	Where required	R-9 Class-A				
The numbers beside Kalebodur Ceramic Tiles indicate the abrasion resistance of the ceramic surface according to Turkish and European Standard TS-EN ISO 10545-7.							
Class - 1 Suitable for walls and bedroom and bathroom floors.							
Class - 2 Suitable for light traffic environments like the floors of a house.							
Class - 3 Suitable for moderately heavy traffic area floors like the entrance and the corridor.							
Class - 4 Suitable for heavy traffic area floors like restaurant, shopping stores, etc.							
Class - 5 Suitable for floors subject to heavy foot traffic and abrasion, such as shops, hotels, restaurants, offices, schools, exhibition halls, etc.							