


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	$\pm 0,3$		
	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	>1300 N		
		Thickness < 7,5 mm ; Not less than 700	-		
	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	Reaction to fire	
ISO 10545-9	Resistance to Thermal Shock	Test method available	AFFIRMATIVE	A1/A1 _{FL}	
ISO 10545-11	Crazing Resistance in Glazed Tiles	Required	RESISTANT	Release of dangerous substances, for:	
ISO 10545-12	Frost Resistance	Required	RESISTANT	Cadmium	
ISO 10545-13	Resistance to chemicals	manufacturer to state classification	AFFIRMATIVE	NPD	
	Resistance to low concentrations of acids and alkalis			NPD	
	Glazed tiles				
	Resistance to high concentrations of acids and alkalis				
	Glazed tiles			Test method available	AFFIRMATIVE
ISO 10545-14	Resistance to household chemicals and swimming pool salts	Min.GB	GA-GA	Thickness $\geq 7,5$ mm BS>1300 N	
	Glazed tiles			Thickness $< 7,5$ mm BS>700 N	
	Resistance to Staining				
ISO 10545-14	Glazed tiles	Min.Class 3 for Glazed Tile			
	<i>Stains leaving a trace (pastes): Green staining agent in light oil</i>			5	
	<i>Stains having chemical / oxidizing action: Lodine, 13 g/l solution in alcohol</i>			5	
	<i>Stains forming a film: Olive oil</i>			5	
DIN 51130 DIN 51097	Ramp Slip resistance (Oil / Wet)	Where required	White/Anthracite R-9 Grey R-10	Cementitious adhesive, type C2	
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.				≥1,0 N/mm ²	
Class - 1 Suitable for walls and bedroom and bathroom floors.				Slipperiness, as	
Class - 2 Suitable for light traffic environments like the floors of a house.				Declared at DoP	
Class - 3 Suitable for moderately heavy traffic area floors like the entrance and the corridor.				Durability for:	
Class - 4 Suitable for heavy traffic area floors like restaurant, shopping stores, etc.				internal use:	
Class - 5 Suitable for floors subject to heavy foot traffic and abrasion, such as shops, hotels, restaurants, offices, schools, exhibition halls, etc.				external use: freeze-thaw	
				Tactility	
				Thermal Shock Resistance	
				Pass	
				Pass	
				NPD	
				Pass	