

Gres Porcellanato Floor Tiles (Group BI_a)

Test Description	Standard Test Method	International Standard ISO 13006:2012(E)	RAK Ceramics Standard		
			Glazed	Unglazed	
				Polished	Unpolished
Length & Width	BS EN ISO 10545-2	± 0.6%	± 0.3%	± 0.1%	± 0.3%
Thickness	BS EN ISO 10545-2	± 5.0%	± 5.0%	± 5.0%	± 5.0%
Straightness of Sides	BS EN ISO 10545-2	± 0.5%	± 0.4%	± 0.2%	± 0.4%
Rectangularity	BS EN ISO 10545-2	± 0.5%	± 0.4%	± 0.2%	± 0.4%
Surface Flatness	BS EN ISO 10545-2	± 0.5%	± 0.4%	± 0.2%	± 0.4%
Water Absorption	BS EN ISO 10545-3	≤ 0.5%	≤ 0.4%	≤ 0.1%	≤ 0.1%
Breaking Strength	BS EN ISO 10545-4	≥ 1300 N	≥ 1400 N	≥ 1400 N	≥ 1400 N
Modulus of Rupture	BS EN ISO 10545-4	≥ 35 N/mm ²	≥ 40 N/mm ²	≥ 40 N/mm ²	≥ 40 N/mm ²
Resistance to Deep Abrasion	BS EN ISO 10545-6	≤ 175 mm ³	N/A	≤ 150 mm ³	≤ 150 mm ³
Resistance to Surface Abrasion	BS EN ISO 10545-7	Manufacturer to state abrasion class	PEI Class 2-5	N/A	N/A
Linear Thermal Expansion	BS EN ISO 10545-8	≤ 9x10 ⁻⁶ /°C	≤ 7x10 ⁻⁶ /°C	≤ 7x10 ⁻⁶ /°C	≤ 7x10 ⁻⁶ /°C
Resistance to Thermal Shock	BS EN ISO 10545-9	No Damage	No Damage	No Damage	No Damage
Crazing Resistance	BS EN ISO 10545-11	No Crazing	No Crazing	N/A	N/A
Resistance to Chemicals	BS EN ISO 10545-13	No Visible defect	No Visible defect	No Visible defect	No Visible defect
Resistance to Stains	BS EN ISO 10545-13	Manufacturer to state class	Stain removed (Min. Class 4)	Stain removed (Min. Class 2)	Stain removed (Min. Class 2)
Color Resistance to Light	DIN 51094	No change in color	No change in color	No change in color	No change in color

Ceramic Glazed Tiles Wall Tiles (Group BIII)

Test Description	RAK Ceramics Standard
Length & Width	± 0.3%
Thickness	± 5.0%
Straightness of Sides	± 0.3%
Rectangularity	± 0.4%
Surface Flatness	± 0.3%
Water Absorption	11-19%
Modulus of Rupture	≥ 15 N/mm ²
Scratch Hardness (Moh's)	3-5
Crazing Resistance	No crazing
Resistance to Surface Abrasion	Class 2-4
Resistance to chemicals	Resist

Sanitary Wares

Technical Specification

Conformity to Norms	RAK Standard
Water absorption	0.01-0.3%
Modulus of Rupture	600-650 kg/cm ²
Chemical Resistance	Resist
Crazing Resistance	Resist
Staining Resistance	Resist
Burning Resistance	Resist