## TECHNICAL CHARACTERISTICS - FULL BODY PORCELAIN TILES (BIA - UGL)

| | Test Description | Standard Test Method | International Standard ISO 13006 | RAK Ceramics Specifications (Rectified) | RAK Ceramics Specifications (Unrectified) |
|---|---|---|---|---|---|
|  | **Length & Width** | BS EN ISO 10545-2 | +/- 0.6% | +/- 0.1% | +/- 0.3% |
|  | **Thickness** | BS EN ISO 10545-2 | +/-5.0% | +/- 5.0% | +/- 5.0% |
|  | **Rectangle Squareness** | BS EN ISO 10545-2 | +/- 0.5% | +/- 0.2% | +/- 0.4% |
|   | **Straightness of sides** | BS EN ISO 10545-2 | +/- 0.5% | +/- 0.2% | +/- 0.3% |
|  | **Surface Flatness** | BS EN ISO 10545-2 | +/- 0.5% | +/- 0.2% | +/- 0.3% |
|   | **Water Absorption** | BS EN ISO 10545-3 | <=0.5% | <=0.1% | <=0.1% |
|  | **Modulus of Rupture** | BS EN ISO 10545-4 | >=35 N/mm2 | >=40 N/mm2 | >=40 N/mm2 |
|   | **Breaking Strength** | BS EN ISO 10545-4 | >=1300N | >=1500N | >=1600N |
|  | **Resistance to deep abrasion** | BS EN ISO 10545-6 | <=175/$mm^3$ | <=150/$mm^3$ | <=150/$mm^3$ |
|  | **Linear Thermal Expansion** | BS EN ISO 10545-8 | <=9x$10^{-6}$$°C^{-1}$ | <=7x$10^{-6}$$°C^{-1}$ | <=7x$10^{-6}$$°C^{-1}$ |
|  | **Resistance to Thermal Shock** | BS EN ISO 10545-9 | No visible defect | No visible defect | No visible defect |
|  | **Frost Resistance** | BS EN ISO 10545-12 | No visible damage | No visible damage | No visible damage |
|  | **Resistance to chemicals** | BS EN ISO 10545-13 | No visible defect | No visible defect | No visible defect |
|  | **Resistance to stains** | BS EN ISO 10545-14 | Manufacturer to state class | Stain removed Min. class 2 | Stain removed Min. class 2 |
|  | **Colour Resistance to UV Light** | DIN 51094 | No change in colour | No change in colour | No change in colour |

**Note** : Shade variation across the batches is inherent to the manufacturing process and the pre-laying colour comparison is recommended