

# Material Specification Document

## Technical Data Sheet - Advanced Building Materials

### Product Information:

- Material Type: High-Performance Ceramic Tiles
- Dimensions: 600x600mm, 800x800mm, 1200x600mm
- Thickness: 8mm, 10mm, 12mm
- Surface Finish: Matt, Polished, Structured

### Physical Properties:

- Water Absorption:  $< 0.5\%$  (ISO 10545-3)
- Thermal Expansion:  $7.0 \times 10^{-6}/^{\circ}\text{C}$
- Flexural Strength:  $\geq 35 \text{ N/mm}^2$  (ISO 10545-4)
- Frost Resistance: Compliant (ISO 10545-12)

### Technical Standards:

- Classification: Group BIa (EN 14411)
- Slip Resistance: R10-R13 (DIN 51130)
- PEI Rating: Class 4-5 (ISO 10545-7)
- Chemical Resistance: Class A (ISO 10545-13)