

# Technical Specification

## TECHNICAL SPECIFICATION FOR GUOCERA PORCELAIN TILES (BIa)

DESCRIPTION	MS ISO 13006 (ANNEX G)
<b>DIMENSIONAL &amp; SURFACE QUALITY</b>	
Length & Width	± 0.6%
Thickness	± 5.0%
Straightness Of Sides	± 0.5%
Rectangularity	± 0.6%
Surface Flatness	
• Centre Curvature	± 0.5%
• Edge Curvature	± 0.5%
• Warpage	± 0.5%
Surface Quality	Min. 95% defect free*
<b>PHYSICAL PROPERTIES</b>	
Water Absorption	≤ 0.5%
Breaking Strength	
• Thickness ≥ 7.5mm	Min. 1300N
Modulus Of Rupture (MOR)	Min. 35N/mm <sup>2</sup>
• Abrasive Resistance (PEI)	
1) Resistance to deep abrasion for unglazed tiles (Volume removed)	Max 175mm <sup>2</sup>
2) Resistance to deep abrasion for unglazed tiles	Dependent on product type
Coefficient Of Friction	Dependent on product type
Frost Resistance	Required (where frost exist)
<b>CHEMICAL PROPERTIES</b>	
Resistance to acids and alkalis (except hydrofluoric acids and its compound)	Dependent on products type
Resistance to household chemicals and swimming pool water cleaners (except to cleaning agents containing hydrofluoric acids and its compound)	Min. Class B
Stain Resistance	
• Glazed Tiles	Min. Class 3
• Polished / Unglazed Tiles	Not Required**

\* A minimum of 95% of the tiles be free from visible defects that would impair the appearance of a major area of tiles.

\*\* Polished porcelain tiles are more susceptible to staining because dirt gets trapped in the opened surface pores. For this reason, particular care must be taken when using a contrasting grout color or when selecting a light patterned tile. Sealants or other pre-surface treatments can prevent this problem as long as routine re-application of the protective treatment is maintained.