



14 GALENA STREET EKANDUSTRIA BRONKHORSTSPRUIT, PRETORIA, 1028 **SOUTH AFRICA**

	Test Method	Standard Requirements	Results	
Product Size	5.0904		600mm x 1200mm x 10.5mm	
Thickness	ISO10545.2	±5% (Max 0.45mm)	10 ± 0.3 mm	
Rectangularity(Average)	ISO10545.2	±0.6% (Max 5mm)	±1.5mm	
Straightness of Side(mm)	ISO10545.2	±0.5% (Max 3mm)	±0.5mm	
Centre Curvature(mm)	ISO10545.2	±0.5% (Max 4.2mm)	- 0.65mm \sim +1.3mm	
Warpage(mm)	ISO10545.2	±0.5% (Max 4.2mm)	- 0.4mm ∼ +0.7mm	
Edge Curvatue	ISO10545.2	±0.5% (Max 3mm)	- 0.5mm ∼ +1mm	
Water Absorption %	ISO10545.3	0.5%< E ≤3%	Average: 1.2 %	
Modulus of Rupture (Mpa	ISO10545.4	Average≥30N/MM2	Average≥38N/MM2	
Breaking Strength (N)	ISO10545.4	Average≥1100N	Average≥1850N	
Abrasion Resistance (PEI Rating)	ISO10545.7	≥Class3	Class4	
Moisture Expansion	ISO10545.10	Nil	0(mm/m)	
Resistance to Thermal shock	ISO10545.9	Resistant	Resistant	
Resistance to Crazing	ISO10545.11	No Cracking or Flacking	No	
Frost Resistance	ISO10545.12	Resistant	Resistant	
Chemical Resistance	ISO10545.13	Resistant	Resistant	
Stain Resistance	ISO10545.14	≥Class3	Class5	
Small Color Difference	ISO10545.16	Resistant	Resistant	
Mohs Hardness			Average: 6	

Applications

Product features are with good abrasion resistance and significant scratch hardness.

As Such, It is indicated for flooring in Public Commercial areas as well for domestic use.

Table 1 - Classification of ceramic tiles with respect to water absorption and shaping

	Shaping	Group I Ev≤3%	Group II a 3% <ev≤6%< th=""><th>Group Ib 6%<ev≤10%< th=""><th>Group Ⅲ</th><th>Ev>10%</th></ev≤10%<></th></ev≤6%<>	Group Ib 6% <ev≤10%< th=""><th>Group Ⅲ</th><th>Ev>10%</th></ev≤10%<>	Group Ⅲ	Ev>10%
A Extrued body	Group A I a Ev≤0.5% [see Annex M]	Group A II a-1 ^a [see Annex B]	Group A∏b-1ª [see Annex D]	Group AⅢ	[see Annex F]	
	Group A I a b 0.5% <ev≤3% [see Annex A]</ev≤3% 	Group A II a-2 ^a [see Annex C]	Group A∏b-2ª [see Annex E]			
B Dry pressed body	Group B I a Ev≤0.5% [see Annex G]	Group B∏a [see Annex J]	Group B ∏ b [see Annex K]	Group B∭ b	[see Annex L]	
	Group B I b 0.5% <ev≤3% [see Annex H]</ev≤3% 					

a, Groups A Π a & A Π b are divided into two subgroups [Parts1and2] with different product specifications.

b, Group BIII covers glazed tiles only. There is a low quantity of dry-pressed unglazed tiles producted with water absorption greater than 10% mass fraction , which is not covered by this product group.

According to the ISO Standard, **Rayal 60x120cm Tile** Belongs to **Group I**, (BIb), which is Stoneware Porcelain.

Adhesive Suitable for our tiles: Rayal Adhesive or TAL Professional, TAL Porcelain, Weber Multifix or Weber Porcelain