

TECHNICAL DATA SHEET

GLAZED CERAMIC TILES

100x300 Neutral wall tiles

EN 14411: 2006

Dimensions and Surface Quality	Standard Requirement	Specification
Work Size		100x300x8mm
Dimensions: Length (Average)	± 0.5%	+0.01%~-+0.06%
	± 2.0mm	0~+0.2mm
Dimensions: Width (Average)	± 0.75mm	0.1mm~+0.2mm
Thickness: The deviation, in percent, of the average thickness of each tile from the work size	± 10%	-0.3%~+1.4%
	± 0.5mm	0~+0.1mm
Rectangularity - length	± 0.5%	-0.06%~-+0.06%
	± 2.0mm	-0.2mm~+0.2mm
Rectangularity - width	± 0.75mm	0~+0.1mm
Straightness of sides - length	± 0.3%	-0.06%~-+0.04%
	± 1.5mm	-0.2mm~+0.1mm
Straightness of sides - width	± 0.5mm	-0.1mm~+0.1mm
Surface Flatness:		
a) Centre curvature	+ 0.5% - 0.3%	+0.07%~-+0.09%
	+ 2.0mm - 1.5mm	+0.2mm~+0.3mm
b) Edge curvature - length	+ 0.5% - 0.3%	-0.10%~-0.06%
	+ 2.0mm - 1.5mm	-0.2mm~-0.1mm
Edge curvature - width	± 0.75mm - 0.5mm	-0.2mm~-0.1mm
b) Warpage	± 0.5%	-0.08%~-0.04%
	± 2.0mm	-0.2mm~-0.1mm
Surface Quality	Minimum 95%	100%

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Physical Properties		
Water Absorption	E > 10%	17.6%
	Individual Minimum 9%	17.0%~18.0%
Breaking Strength, in N	≥ 600	812
Modulus of Rupture (Mpa), in N/mm ²	≥ 12	25.0
Thermal Shock Resistance	Pass	Fully Resistant
Crazing Resistance	Pass	Fully Resistant
Reaction to fire	Class A1	Class A1
Chemical Properties		
Resistance to staining		
a) Red staining agent in light oil	Minimum Class 3	Class 5
b) Green staining agent in light oil		
c) Iodine, 13g/L solution in alcohol		
d) Olive Oil		
Resistance to household chemicals and swimming pool salts		
a) Household chemicals: Ammonium chloride, 100g/L	Minimum class B	GA
b) Swimming pool salts: Sodium hypochlorite solution, 20mg/L		
Resistance to low concentrations of acids and alkalis		
a) Hydrochloric acid solution, 3% (v/v)	Declared value	GLA
b) Citric acid solution, 100g/L		
c) Potassium Hydroxide, 30g/L		
Resistance to high concentrations of acids and alkalis		
a) Hydrochloric acid solution, 18% (v/v)	Declared value	GHA
b) Lactic acid, 5% (v/v)		
c) Potassium Hydroxide, 100g/L		

The above Johnson Tiles technical specifications are a general indication only.
Please contact your local Johnson Tiles representative or state office for more detailed information.