

TECHNICAL DATA SHEET

CERAMIC WALL TILES



Pastella Ceramic Wall Tiles
ISO 13006: 2012

Dimensions and Surface Quality	Test Method	Requirements		Specifications	Verdict
Nominal Size				26.5x6.5cm	
Work Size				265x65x7.9mm	
Length: The deviation, of the average size for each tile (2 sides) from the work size	ISO 10545-2	$N \geq 15\text{cm}$	$\pm 0.5\%$ $\pm 2.0\text{mm}$	-0.26%~-0.21% -0.7mm~-0.5mm	Pass Pass
Width: The deviation, of the average size for each tile (2 sides) from the work size	ISO 10545-2	$N < 7\text{cm}$	-	N/A	-
The thickness shall be specified by the manufacturer		Declared Thickness		7.9mm	-
The deviation, of the average thickness of each tile from the work size thickness	ISO 10545-2	$N \geq 15\text{cm}$	$\pm 10\%$ $\pm 0.5\text{mm}$	-0.06%~+1.55% 0~-0.1mm	Pass Pass
Straightness of Sides: The maximum deviation from straightness related to the corresponding work sizes					
Length	ISO 10545-2	$N \geq 15\text{cm}$	$\pm 0.3\%$ $\pm 1.5\text{mm}$	-0.05%~+0.05% -0.1mm~+0.1mm	Pass Pass
Width	ISO 10545-2	$N < 7\text{cm}$	-	N/A	-
Rectangularity The maximum deviation from Rectangularity related to the corresponding work sizes					
Length	ISO 10545-2	$N \geq 15\text{cm}$	$\pm 0.5\%$ $\pm 2.0\text{mm}$	+0.08%~+0.10% +0.2mm~+0.3mm	Pass Pass
Width	ISO 10545-2	$N < 7\text{cm}$	-	N/A	-
Surface Flatness: The maximum deviation from flatness					
a) Centre Curvature, related to diagonal calculated from the work size	ISO 10545-2	$N \geq 15\text{cm}$	+0.5% -0.3% +2.0mm -1.5mm	+0.01%~+0.37% 0~+1.0mm	Pass Pass
b) Edge Curvature, related to the corresponding work sizes					
Length	ISO 10545-2	$N \geq 15\text{cm}$	+0.5% -0.3% +2.0mm -1.5mm	+0.08%~+0.11% +0.2mm~+0.3mm	Pass Pass
Width	ISO 10545-2	$N < 7\text{cm}$	-	N/A	-
c) Warpage, related to diagonal calculated from the work size	ISO 10545-2	$N \geq 15\text{cm}$	$\pm 0.5\%$ $\pm 2.0\text{mm}$	-0.03%~+0.16% -0.1mm~+0.4mm	Pass Pass
Surface Quality	ISO 10545-2		A Minimum of 95% of the tiles are to be free from visible defects which can impair the appearance of a major area of tiles.	100%	Pass
Physical Properties					
Water Absorption	ISO 10545-3	Eb > 10%		16.7%	Pass
		Individual minimum 9%		16.4%~17.0%	Pass
Breaking Strength, in N	ISO 10545-4	≥ 600		842	Pass
Modulus of Rupture (Mpa)	ISO 10545-4	≥ 12		22.4	Pass
Abrasion Resistance	ISO 10545-7	Report abrasion class		Class 4	-
Resistance to surface abrasion of glazed intended for use on floors		Report cycles passed		2100	-
Coefficient of linear thermal expansion	ISO 10545-8	Test Method Available		$5.7 \times 10^{-6} \text{ K}^{-1}$	-
Resistance to Thermal Shock	ISO 10545-9	Test Method Available		Fully Resistant	-
Moisture expansion, in mm	ISO 10545-10	Test Method Available		0.05	-
Frost Resistance	ISO 10545-12	Test Method Available		Fully Resistant	Pass

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Crazing Resistance: glazed tiles	ISO 10545-11	Required	Fully Resistant	Pass
Chemical Properties				
Resistance to staining				
a) Red staining agent in light oil	ISO 10545-14	Minimum Class 3	Class 5	Pass
b) Green staining agent in light oil	ISO 10545-14	Minimum Class 3	Class 5	Pass
c) Iodine, 13g/L solution in alcohol	ISO 10545-14	Minimum Class 3	Class 5	Pass
d) Olive Oil	ISO 10545-14	Minimum Class 3	Class 5	Pass
Resistance to Chemicals				
Resistance to household chemicals and Swimming Pool Salts				
a) Household chemicals: Ammonium chloride, 100g/L	ISO 10545-13	Minimum GB	GA	Pass
b) Swimming pool salts: Sodium hypochlorite solution, 20mg/L	ISO 10545-13		GA	Pass
Resistance to low concentrations of acids and alkalis				
a) Hydrochloric acid solution, 3% (v/v)	ISO 10545-13	Manufacturer to State Classification	GLA	-
b) Citric acid solution, 100g/L	ISO 10545-13		GLA	-
c) Potassium Hydroxide, 30g/L	ISO 10545-13		GLA	-
Resistance to high concentrations of acids and alkalis				
a) Hydrochloric acid solution, 18% (v/v)	ISO 10545-13	Test Method Available	GHA	-
b) Lactic acid, 5% (v/v)	ISO 10545-13		GHA	-
c) Potassium Hydroxide, 100g/L	ISO 10545-13		GHA	-
Lead and Cadmium release				
a) Lead release, in mg/dm ²	ISO 10545-15	Test Method Available	<0.01	-
b) Cadmium release, in mg/dm ²	ISO 10545-15		<0.002	-

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.