

## Bla Glazed Porcelain Tiles (W.A.≤ 0.5%)

Test Method	Test Description		ISO 13006 Bla Limits				GB/T4100-2006 (ANNEX G)			
			Surface (cm <sup>2</sup> )s				Surface (cm <sup>2</sup> )s			
			≤ 90	90<S≤190	190<S≤410	S>410	≤ 90	90<S≤190	190<S≤ 410	S>410
ISO10545-2	<b>Length and width</b>		± 1.2%	± 1.0%	± 0.75%	± 0.6%	± 1.2%	± 1.0%	± 0.75%	± 0.6%
	The Manufacturer shall choose the work size as follows: a) for modular tiles in order to allow a nominal joint width of between 2 mm and 5 mm; b) for non-modular tiles so that the difference between the work size and the nominal size is not more than ± 2% (max. ± 5mm) The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size (w).									
ISO10545-2	The deviation, in percent, of the average size for each tile (2 or 4 sides) from the average size of the 10 test specimens (20 to 40 sides).		± 0.75%	± 0.5%	± 0.5%	± 0.5%	± 0.75%	± 0.5%	± 0.5%	± 0.5%
ISO10545-2	<b>Thickness</b>	a) The thickness shall be specified by the manufacturer.	—	—	—	—	—	—	—	—
		b) The deviation, in percent, of the average thickness of each tile from the work size thickness.	± 10%	± 10%	± 5%	± 5%	± 10%	± 10%	± 5%	± 5%
ISO10545-2	<b>Straightness of sides</b> (facial sides) The maximum deviation from straightness, in percent, related to the corresponding work sizes.		± 0.75%	± 0.5%	± 0.5%	± 0.5%	± 0.75%	± 0.5%	± 0.5%	± 0.5%
ISO10545-2	<b>Rectangularity</b> The maximum deviation from rectangularity, in percent, related to the corresponding work sizes.		± 1.0%	± 0.6%	± 0.6%	± 0.6%	± 1.0%	± 0.6%	± 0.6%	± 0.6%
ISO10545-2	<b>Surface flatness</b> The maximum deviation from flatness, in percent:	a) central curvature, related to diagonal calculated from the work sizes;	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 1.0%	± 0.5%	± 0.5%	± 0.5%
		b) edge curvature, related to the corresponding work sizes;	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 1.0%	± 0.5%	± 0.5%	± 0.5%
		c) warpage, related to diagonal calculated from the work sizes.	± 1.0%	± 0.5%	± 0.5%	± 0.5%	± 1.0%	± 0.5%	± 0.5%	± 0.5%
ISO10545-2	<b>Surface Quality</b>		A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.				A minimum of 95% of the tiles shall be free from visible defect that would impair the appearance of a major area of tiles.			
ISO10545-3	<b>Water absorption</b> Percent by mass		± 0.5% individual maximum 0.6%				≤ 0.5% individual maximum 0.6%			
ISO10545-4	<b>Breaking strength in N</b>	a) thickness ≥ 7.5mm	Not less than 1300				Not less than 1300			
		b) thickness < 7.5mm	Not less than 700				Not less than 700			
ISO10545-4	<b>Modulus of rupture, in N/mm</b> Not applicable to tiles with breaking strength ≥ 3000N		Minimum 35 Individual minimum 32				Minimum 35 Individual minimum 32			
ISO10545-6	<b>Abrasion resistance</b>	a) resistance to deep abrasion of unglazed tiles; removed volume, in cubic millimeters.	Max. 175				Max. 175			
ISO10545-7		b) resistance to surface abrasion of glazed tiles intended for use on floors.	Report abrasion class and cycles passed				Report abrasion class and cycles passed			
ISO10545-8	<b>Coefficient of linear thermal expansion</b>	For ambient temperature to 100 C.	Test method available				Test method available			
ISO10545-9	<b>Thermal shock resistance</b>		Test method available				Test method available			
ISO10545-11	<b>Crazing resistance:</b> glazed tiles		Required				Required			
ISO10545-17	<b>Coefficient of friction</b> Tiles intended for use on floor		Manufacturer to state value and test method used				Manufacturer to state value and test method used			
ISO10545-10	<b>Moisture expansion, in mm/m</b>		Test method available				Test method available			
ISO10545-16	<b>Small colour differences</b>		Test method available				Test method available			
ISO10545-5	<b>Impact resistance</b>		Test method available				Test method available			
ISO10545-14	<b>Resistance to staining</b>	a) glazed tiles	Minimum class 3				Minimum class 3			
		a) unglazed tiles	Test method available				Test method available			
ISO10545-13	<b>Resistance to chemicals</b>	Resistance to low concentration acids and alkalis	Manufacturer to state classification				Manufacturer to state classification			
		a) glazed tiles b) unglazed tiles	Test method available				Test method available			
		Resistance to high concentrations of acids and alkalis	Test method available				Test method available			
ISO10545-15	<b>Lead and cadmium release</b>	Resistance to household chemicals and swimming pool salts:	Minimum GB Minimum UB				Minimum GB Minimum UB			
		a) glazed tiles b) unglazed tiles	Test method available				Test method available			