

Technical features



CERAMIC WALL TILES RED BODY

FINAL PRODUCTS SPECIFICATIONS CERTIFICATE

Test item	Required by ISO 13006/2018 & ES 3168-2/2015(BIII) & EN 14411/2018 Annex L			Test standard	Art Test lap
	Nominal size N				
Dimensions and surface quality	7cm ≤ N < 15cm	N ≥ 15cm			400mm × 600mm
	mm	%	mm		Result %
Length and width The deviation in per cent. of the average size for tile (two or four sides) from the work size	±0.9	±0.6	±2.0	ISO 10545-2	0.16
Thickness The deviation in per cent. of the average thickness of each tile from the work size thickness	±0.5	±10	±0.5	ISO 10545-2	1.5
Straightness of sides The maximum deviation from straightness in per cent. related to the corresponding work size	±0.8	±0.5	±1.5	ISO 10545-2	0.09
Rectangularity The maximum deviation from rectangularity in per cent. related to the corresponding work size	±0.8	±0.5	±2.0	ISO 10545-2	0.11
Surface flatness					
a) Center curvature related to diagonal calculated from the work size	±0.8	±0.5	±2.0	ISO 10545-2	0.07
b) Edge curvature related to the corresponding work size	±0.8	±0.5	±2.0	ISO 10545-2	0.05
c) Warpage related to diagonal calculated from the work size	±0.8	±0.5	±2.0	ISO 10545-2	0.09
Surface quality	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			ISO 10545-2	98% from visible defects
Physical property		Required			
Water absorption per cent mass fraction	Ev > 10%			ISO 10545-3	14.5%
Modulus of rupture N/mm ²	Min 15 for thickness < 7.5mm Min 12 for thickness ≥ 7.5mm			ISO 10545-4	16 N/mm ²
Breaking strength in Newtons	Not less than 600 for thickness ≥ 7.5mm Not less than 200 for thickness < 7.5mm				1000N
Thermal shock resistance	Available			ISO 10545-9	There is no cracks
Crazing resistance	Required			ISO 10545-11	There is no cracks
Chemical property		Required			
Resistance to chemicals -resistance to low concentration of acids and alkalis -resistance to high concentration of acids and alkalis -resistance to household chemicals and swimming pool salts	Available			ISO 10545-13	Class GA Class G HA Class GA
Resistance to staining	Min class 3			ISO 10545-14	Class 5
Lead and cadmium release -Lead -cadmium				ISO 10545-15	<0.001ppm <0.01ppm

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