

Work Size		Pieces / Box (nos.)	Coverage / Box (sq. mtrs.)	Weight / Sq. Mtr. (kgs.)
Dimensions (in mm)	Thickness (in mm)			
300x300mm (Non-rectified)	7.40	10	0.900	14.00

CERAMIC TILES TECHNICAL SPECIFICATION - GROUP B IIa , ISO Standard 13006:2018 & IS 15622 :2017

S.No.	Test Description	Standard Test Method	ISO Standard 13006:2018	IS 15622 :2017	Kajaria Standard
1	Deviation in length & Width	ISO 10545-2/ IS 13630 Part 1	Max. $\pm 0.60\%$	Max. $\pm 0.40\%$	Max. $\pm 0.40\%$
2	Deviation in Thickness	ISO 10545-2 / IS 13630 Part 1	Max. $\pm 5.0\%$	Max. $\pm 5.0\%$	Max. $\pm 4.0\%$
3	Deviation in Straightness of Sides	ISO 10545-2 / IS 13630 Part 1	Max. $\pm 0.50\%$	Max. $\pm 0.30\%$	Max. $\pm 0.30\%$
4	Deviation in Rectangularity	ISO 10545-2 / IS 13630 Part 1	Max. $\pm 0.50\%$	Max. $\pm 0.30\%$	Max. $\pm 0.30\%$
5	Surface Flatness (Center& Edge curvature)	ISO 10545-2/ IS 13630 Part 1	Max. $\pm 0.50\%$	Max. $\pm 0.50\%$	Max. $\pm 0.40\%$
6	Warpage	ISO 10545-2 / IS 13630 Part 1	Max. $\pm 0.50\%$	Max. $\pm 0.50\%$	Max. $\pm 0.40\%$
7	Surface Quality	ISO 10545-2 / IS 13630 Part 1	Min 95% free from visible defects	Min 95% free from visible defects	Min 95% free from visible defects
8	Water Absorption	ISO 10545- 3 / IS 13630 Part 2	3% < Average $\leq 6\%$	3% < Average $\leq 6\%$	3% < Average $\leq 6\%$
9	Moisture Expansion	ISO 10545-10 / IS 13630 Part 3	Test Method Available	0.03 mm/m Max	0.006 mm/m Max
10	Linear Termal Expansion	ISO 10545-8 / IS 13630 Part 4	Test Method Available	$\leq 9 \times 10^{-6} K^{-1}$	$\leq 9 \times 10^{-6} K^{-1}$
11	Thermal Shock Resistance	ISO 10545-9/ IS 13630 Part 5	Test Method Available	10 Cycle Min	10 Cycle Min
12	Breaking Strength	ISO 10545-4/IS 13630 Part 6	$\geq 600 N$	$\geq 600 N$	$\geq 850 N$
13	Modulus of Rupture	ISO 10545-4 / IS 13630 Part 6	Average Min -22 N/mm ² Individual min - 20 N/mm ²	Average Min -22 N/mm ² Individual min - 20 N/mm ²	Average Min -30 N/mm ² Individual min - 28 N/mm ²
14	Resistance to Chemical	ISO 10545- 13 /IS 13630 Part 8	Min Class B	Min Class AA	Min Class AA
15	Resistance to stain	ISO 10545-14 / IS 13630 Part 8	Min Class 3	Min Class 1	Min Class 1
16	Crazing Resistance	ISO 10545-11 / IS 13630 Part 9	Required	Min. 4 cycles @ 7.5 bar	Min. 4 cycles @ 7.5 bar
17	Resistance to Surface Abrasion	ISO 10545-7 / IS 13630 Part 11	Report Abrasion Class And cycle passed	Min Class II	Min Class IV
18	Scratch Hardness (Moh,s scale)	IS 13630 Part 13	NA	Min 4	Min 5
19	Impact Resistance(COR)	ISO 10545-5 / IS 13630 Part 14	Test Method Available	0.55 Min	0.78 Min
20	Frost Resistance	ISO 10545-12/ IS 13630 Part 10	Test Method Available	Required , if agreed to between manufacturer and purchaser	100 Cycle Passed
21	Lead and Cadmium Release	ISO 10545-15	Test Method Available	NA	Cd - <1 ppm , Pb - 52 ppm