

PACKAGING DETAIL FOR DIGITAL DURASTONE TILES - 300X300MM				
Nominal Size	Thickness	Avg. Wt. Per Box (Kg.)	No. of Tiles Per Box	Coverage Area Per Box
300x300MM Digital	10mm	16.0 kg	8	0.72 sq meter / 7.75sq feet

TECHNICAL SPECIFICATION FOR DIGITAL DURASTONE TILES - 300X300MM			
Characteristics	Requirement as per ISO 13006 ≤ 0.5% Group B I a	Our value for 300x300mm Durastone	Test Method
<b>Dimension &amp; Surface Quality</b>			
Length & Width	± 0.5%	± 0.10%	ISO 10545-2
Thickness	± 5.0%	± 4.0%	
Straightness of Side	± 0.50%	± 0.10%	
Rectengularity	± 0.60%	± 0.10%	
Surface Flatness			
Center curvature (%) ( max.Deviation)	± 0.50%	± 0.2%	
Edge curvature (%) ( max.Deviation)	± 0.50%	± 0.2%	
Corner warpage (%) ( max.Deviation)	± 0.50%	± 0.2%	
Surface Quality	Min. 95 % of tiles will be free from visible defects	Min. 95 % of tiles will be free from visible defects	
<b>Physical Properties</b>			
Water Absorption	Av ≤ 0.5 %, Individual 0.6% max	Av < 0.5 %	ISO 10545-3
Modulus of Rupture [N/mm <sup>2</sup> ]	Av 35, Individual 32 min	Av 38	ISO 10545-4
Breaking Strength in N	1300	Min, 1800	
Moisture Expansion in mm/m	Test Method Available	Max,0.02	ISO-10545-10
Scratch Hardness of surface (Mohs)	N/A	Min-6	IS 13630 Part 13
Resistance to Abrasion of glazed tiles (Class I to V)	Abrasion Class & Cycle passed	Class v	ISO 10545-7
Coefficient of linear thermal expansion from embiant temperature to 100° C	Test Method Available	Max 6 X 10 <sup>-6</sup> K <sup>-1</sup> max	ISO 10545-8
Thermal Shock Resistance	Required	10 cycle passed	ISO-10545-9
Crazing Resistance	N/A	4 cycle passed	ISO 10545-11
Imapct Resistance as Co-efficient of Restitution (COR)	Test Method Available	0.75-0.90	ISO 10545-5
Frost Resistance	Required	100 Cycle Passed	ISO 10545-12
<b>Chemical Resistance (glazed Tiles)</b>			
Stain Resistance	Min Class 3	Min Class 1	ISO 10545-14
Resistance to household chemicals	Min Class GB	Min Class AA	ISO 10545-13
Resistance to acids and alkalis (with exception of hydrofluoric acid and its compounds)	Declared Valuef	Min Class AA	

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300x300MM	10mm	16.0 kg	8	0.72 sq meter / 7.75sq feet
300x300MM	15mm	18.0 kg	6	0.54 sq meter / 5.81sq feet
300x300MM (Tactile & Platform)	15mm	15.0 kg	6	0.54 sq meter / 5.81sq feet

TECHNICAL SPECIFICATION FOR DURASTONE TILES - 300X300MM (10.0 & 15.0MM) UN-GLAZE			
Characteristics	Requirement as per IS 4457:2007	Our value for 300x300mm Durastone	Test Method
<b>Dimension &amp; Surface Quality</b>			
Length & Width	± 0.60%	± 0.10%	IS 4457: 2007 ANNEX B
Thickness	± 5.0%	± 4.0%	
Straightness of Side	± 0.20%	± 0.10%	
Rectengularity	± 0.20%	± 0.10%	
Surface Flatness			
Center curvature (%) ( max.Deviation)	± 0.30%	± 0.2%	
Edge curvature (%) ( max.Deviation)	± 0.30%	± 0.2%	
Corner warpage (%) ( max.Deviation)	± 0.30%	± 0.2%	
Surface Quality	Min. 95 % of tiles will be free from visible defects	Min. 95 % of tiles will be free from visible defects	
<b>Physical Properties</b>			
Water Absorption	Av ≤ 0.5 %, Individual 0.6% max	Av < 0.5 %	IS 4457 : 2007 ANNEX C
Modulus of Rupture [N/mm <sup>2</sup> ]	Av 35, Individual 32 min	Av 38	IS 4457 : 2007 ANNEX D
Breaking Strength in N	Min 1300	Min, 1800( For 10 mm) Min, 4000( For 15 mm)	
Resistance to Deep abrasion of un glaze tiles, removed valume in mm <sup>3</sup>	Max 175	Max 140	IS 4457 : 2007 ANNEX E
<b>Chemical Resistance (glazed Tiles)</b>			
Resistance to household chemicals & swimming pools salts	The level of resistance(class) may be as agreed to between the manufacturer and the purchaser of the product	Min Class AA	IS 4457 : 2007 ANNEX F
Resistance to low concentration acids and alkalis		Min Class A	
Resistance to high concentration acids and alkalis		Min Class A	
Resistance to Concentrated HNO <sub>3</sub> & H <sub>2</sub> SO <sub>4</sub>		Loss of mass not excees 1.5%	

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