



TECHNICAL SPECIFICATIONS

FOR WALL TILES OF ALL PLANTS

SKINDRABAD

TECHNICAL SPECIFICATIONS Sparkle Ceramic Wall Tiles

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. Ft.)
300X450 (Digital Wall Tiles)	6	0.81	8.718






(E > 10 % Group B III) as per IS 15622:2017				
Characteristics	Standard Test Method	IS 15622:2017 E > 10 % (Group B III)		OBL Norms
Dimension & Surface Quality	IS 13630 (Part 1):2006	Unrectified	Rectified	
Deviation in Length & Width		$\pm 0.4\%$	$\pm 0.2\%$	Conforms
Deviation in Thickness		$\pm 5.0\%$		$\pm 3.00\%$
Straightness of Sides		$\pm 0.2\%$	$\pm 0.15\%$	Conforms
Rectangularity		$\pm 0.3\%$	$\pm 0.2\%$	Conforms
Surface Flatness		$\pm 0.3\%$		$\pm 0.20\%$ 😊 😊
Surface Quality		Min. 95 % tiles shall be free from visible defects		Min. 95 % tiles shall be free from visible defects
Physical Properties				
Water Absorption (%)	IS 13630 (Part 2):2006	Average > 10 %		15 \pm 2 % 😊
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6):2006	Min 15, for thickness < 7.5 mm Min 12, for thickness \geq 7.5 mm		>15 😊
Breaking Strength in N	IS 13630 (Part 6):2006	< 7.5 mm thickness: 200, Min \geq 7.5 mm thickness: 600, Min		Conforms 😊
Moisture Expansion in mm/m	IS 13630 (Part 3):2006	0.04, Max		Conforms
Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13):2006	3, Min		>3
Resistance to Surface Abrasion of Glazed Tiles (Class I to V) (Applicable for floor tiles only)	IS 13630 (Part 11):2006	Class II, Min		Conforms
Co-efficient of Linear Thermal Expansion from Ambient Temperature to 100°C	IS 13630 (Part 4):2006	9x10 ⁻⁶ K ⁻¹ , Max		Conforms
Thermal Shock Resistance	IS 13630 (Part 5):2006	10 cycles, Min		Passed 10 Cycle
Crazing Resistance Glazed Tiles	IS 13630 (Part 9):2006	4 Cycles@7.5 bar, Min		4 Cycle Passed 😊 😊
Impact Resistance- Coefficient of Restitution	IS 13630 (Part 14):2006	0.55, Min		>0.55
Chemical Properties				
Resistance to Staining of Glazed Tiles	IS 13630 (Part 8):2006	Class I, Min		Conforms
Resistance to Household Chemicals		Class AA, Min		Conforms
Resistance to Acids and Alkalis (with exception of hydrofluoric acid and its compound)		Required, if agreed		Resistant

NOTE: Certain amount of Size and Shade variation is inherent in all ceramic products. Within the limits of printed material, the colors and aesthetics of the products correspond closely to those of illustrated products. Prospective customers are advised to inspect a sample of the tile before ordering and laying. At all points of time, the company liability is restricted to the purchase value of tiles.

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TECHNICAL SPECIFICATIONS Digital Ceramic Wall Tiles

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. Ft.)
300X600 (Digital Wall & Normal Elevation Tiles)	5	0.90	9.69
300X450 (Digital Wall & Normal Elevation Tiles)	6	0.81	8.718
250X375 (Digital Wall & Normal Elevation Tiles)	8	0.75	8.07






(E > 10 % Group B III) as per IS 15622:2017				
Characteristics	Standard Test Method	IS 15622:2017 E > 10 % (Group B III)		OBL Norms
		Unrectified	Rectified	
Dimension & Surface Quality				
Deviation in Length & Width	IS 13630 (Part 1):2006	± 0.4%	± 0.2 %	Conforms
Deviation in Thickness		± 5.0 %		± 3.00 %
Straightness of Sides		± 0.2 %	± 0.15 %	Conforms
Rectangularity		± 0.3 %	± 0.2 %	Conforms
Surface Flatness		± 0.3 %		± 0.20 % 
Surface Quality		Min. 95 % tiles shall be free from visible defects		Min. 95 % tiles shall be free from visible defects
Physical Properties				
Water Absorption (%)	IS 13630 (Part 2):2006	Average > 10 %		15±2 % 
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6):2006	Min 15, for thickness < 7.5 mm Min 12, for thickness ≥ 7.5 mm		>15 
Breaking Strength in N	IS 13630 (Part 6):2006	< 7.5 mm thickness: 200, Min ≥ 7.5 mm thickness: 600, Min		Conforms 
Moisture Expansion in mm/m	IS 13630 (Part 3):2006	0.04, Max		Conforms
Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13):2006	3, Min		>3
Resistance to Surface Abrasion of Glazed Tiles (Class I to V)	IS 13630 (Part 11):2006	Class II, Min		Conforms
Co-efficient of Linear Thermal Expansion from Ambient Temperature to 100°C	IS 13630 (Part 4):2006	9x10 ⁻⁶ K ⁻¹ , Max		Conforms
Thermal Shock Resistance	IS 13630 (Part 5):2006	10 cycles, Min		Passed 10 Cycle
Crazing Resistance Glazed Tiles	IS 13630 (Part 9):2006	4 Cycles@7.5 bar, Min		4 Cycle Passed 
Impact Resistance- Coefficient of Restitution	IS 13630 (Part 14):2006	0.55, Min		>0.55
Chemical Properties				
Resistance to Staining of Glazed Tiles	IS 13630 (Part 8):2006	Class I, Min		Conforms
Resistance to Household Chemicals		Class AA, Min		Conforms
Resistance to Acids and Alkalis (with exception of hydrofluoric acid and its compound)		Required, if agreed		Resistant

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TECHNICAL SPECIFICATIONS Non Digital Ceramic Wall Tiles

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. Ft.)
300X600	5	0.90	9.69
300X450	6	0.81	8.718
250X375	9	0.84	9.04
200X300	15	0.90	9.69

(E > 10 % Group B III) as per IS 15622:2017				
Characteristics	Standard Test Method	IS 15622:2017 E > 10 % (Group B III)		OBL Norms
Dimension & Surface Quality		Unrectified	Rectified	
Deviation in Length & Width	IS 13630 (Part 1):2006	± 0.4%	± 0.2 %	Conforms
Deviation in Thickness		± 5.0 %		± 3.00 %
Straightness of Sides		± 0.2 %	± 0.15 %	Conforms
Rectangularity		± 0.3 %	± 0.2 %	Conforms
Surface Flatness		± 0.3 %		± 0.20 % 
Surface Quality		Min. 95 % tiles shall be free from visible defects		Min. 95 % tiles shall be free from visible defects
Physical Properties				
Water Absorption (%)	IS 13630 (Part 2):2006	Average > 10 %		1.5±2 % 
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6):2006	Min 15, for thickness < 7.5 mm Min 12, for thickness ≥ 7.5 mm		>15 
Breaking Strength in N	IS 13630 (Part 6):2006	< 7.5 mm thickness: 200, Min ≥ 7.5 mm thickness: 600, Min		Conforms 
Moisture Expansion in mm/m	IS 13630 (Part 3):2006	0.04, Max		Conforms
Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13):2006	3, Min		>3
Resistance to Surface Abrasion of Glazed Tiles (Class I to V)	IS 13630 (Part 11):2006	Class II, Min		Conforms
Co-efficient of Linear Thermal Expansion from Ambient Temperature to 100°C	IS 13630 (Part 4):2006	9x10 ⁻⁶ K ⁻¹ , Max		Conforms
Thermal Shock Resistance	IS 13630 (Part 5):2006	10 cycles, Min		Passed 10 Cycle
Crazing Resistance Glazed Tiles	IS 13630 (Part 9):2006	4 Cycles@7.5 bar, Min		4 Cycle Passed 
Impact Resistance- Coefficient of Restitution	IS 13630 (Part 14):2006	0.55, Min		>0.55
Chemical Properties				
Resistance to Staining of Glazed Tiles	IS 13630 (Part 8):2006	Class I, Min		Conforms
Resistance to Household Chemicals		Class AA, Min		Conforms
Resistance to Acids and Alkalis (with exception of hydrofluoric acid and its compound)		Required, if agreed		Resistant

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TECHNICAL SPECIFICATIONS

HD-P Elevation Tiles

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. Ft.)
300x600 mm	5	0.90	9.69
300x450 mm	5	0.675	7.27

As per Indian Standard (IS 15622:2017)				
Characteristics	Standard Test Method	Requirement as per IS 15622:2017 3<E≤6 (GROUP B IIa)		OBL Norms
		Un-rectified	Rectified	
Dimension & Surface Quality	IS 13630 (Part 1)	Deviation in Size (length & Width)	± 0.4 %	± 0.1 %
Deviation in thickness		± 5.0 %		± 0.4 %
Straightness of sides		± 0.3 %	± 0.1 %	± 0.1 %
Rectangularity		± 0.3 %	± 0.1 %	± 0.1 %
Surface Flatness		± 0.5 %		± 0.2 %
Surface Quality		Min 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of the tile		Conform
Physical Properties				
Water absorption %	IS 13630 Part 2	Average 3 < E ≤6 %, Individual 6.2% Max.		3-6%
Modulus of rupture N/mm ²	IS 13630 Part 6	Average 22, individual 20, Min.		Min 30 N/mm ²
Breaking Strength N	IS 13630 Part 6	600 Min for thickness <7.5mm, 1000 Minimum for Thickness ≥7.5 mm		Min 1000 N
Moisture Expansion	IS 13630 Part 3	0.03 Max		Conforms
Scratch hardness (Moh's Scale)	IS 13630 Part 13	4 Min		Min 5
Resistance to surface abrasion of glaze tiles Class I to V (Applicable for floor applications aonly)	IS 13630 Part 11	Class II Min		Class III Min
Linear thermal expansion Co-efficient	IS 13630 Part 4	9x10 ⁻⁸ max		Conforms
Thermal Shock Resistance	IS 13630 Part 5	10 Cycle Min		Conforms
Crazing Resistance	IS 13630 Part 9	4 Cycles at 7.5 Bar, Min		Conforms
Impact Resistance	IS 13630 Part 14	0.55 , Min		Min 0.60
Frost Resistance	IS 13630 Part 10	Required if agreed to between manufacturer and purchaser		Passed
Chemical Properties				
Resistance to Staining of Glazed Tiles	IS:13630 Part 8	Class 1 Min		Class 1
Resistance to Household Chemicals		Class AA,Min		Class AA
Resistance to Acids and Alkalís (Except HF)		Require If Agreed		Class AA

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WEST ZONE

TECHNICAL SPECIFICATIONS Digital Ceramic Tiles

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. Ft.)
300X600mm (Wall Tiles)	5	0.90	9.69
300X450mm (Wall / Elevation Tiles)	6	0.81	8.72
300X300mm (Floor Tiles)	9	0.81	8.72

(E > 10 % Group B III) as per IS 15622:2017				
Characteristics	Standard Test Method	IS 15622:2017 E > 10 % (Group B III)		OBL Norms
		Unrectified	Rectified	
Dimension & Surface Quality				
Deviation in Length & Width	IS 13630 (Part 1):2017	± 0.4%	± 0.2 %	Conforms
Deviation in Thickness		± 5.0 %		± 4.00 %
Straightness of Sides		± 0.2 %	± 0.15 %	Conforms
Rectangularity		± 0.3 %	± 0.2 %	Conforms
Surface Flatness		± 0.3 %		± 0.20 % ☹️
Surface Quality		Min. 95 % tiles should be free from visible defects		Min. 95 % tiles should be free from visible defects ☹️
Physical Properties				
Water Absorption (%)	IS 13630 (Part 2):2017	Average > 10 %		17±2 % ☹️
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6):2017	Min 15, for thickness < 7.5 mm Min 12, for thickness ≥ 7.5 mm		>15 ☹️
Breaking Strength in N		< 7.5 mm thickness: 200, Min ≥ 7.5 mm thickness: 600, Min		Conforms ☹️
Moisture Expansion in mm/m	IS 13630 (Part 3):2017	0.04, Max		Conforms
Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13):2017	3, Min		3
Resistance to Surface Abrasion of glazed tiles (Class I to V)	IS 13630 (Part 11):2017	Class II, Min		Conforms
Co-efficient of Linear Thermal Expansion from ambient temperature to 100°C	IS 13630 (Part 4):2017	9x10 ⁻⁶ K ⁻¹ , Max		Conforms
Thermal Shock Resistance	IS 13630 (Part 5):2017	10 cycles, Min		Passed 10 Cycle
Crazing Resistance Glazed Tiles	IS 13630 (Part 9):2017	4 Cycles@7.5 bar, Min		4 Cycle Passed ☹️
Impact Resistance- Coefficient of Restitution	IS 13630 (Part 14):2017	0.55, Min		>0.55
Chemical Properties				
Resistance to staining of glazed tiles	IS 13630 (Part 8):2017	Class I, Min		Conforms
Resistance to household chemicals		Class AA, Min		Conforms
Resistance to acids and alkalis (with exception of hydrofluoric acid and its compound)		Required, if agreed		Class AA

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HOSKOTE

TECHNICAL SPECIFICATIONS Digital Ceramic Tiles

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. ft.)
250x375 (Wall / Elevation Tiles)	8	0.75	8.07

Characteristics	Standard Test Method	IS 15622:2017 (Requirements)	Results
Dimension & Surface Quality			
Deviation in Length & Width	IS 13630 (Part 2):2006	+/-0.2%	+/-0.2%
Deviation in Thickness		+/-5.0%	+/-4.0%
Straightness of Sides		+/-0.15%	+/-0.1%
Rectangularity		+/-0.2%	+/-0.1%
Surface Flatness		+/-0.3%	+/-0.2%
Surface Quality		Min. 95 % tiles shall be free from visible defects	Min. 95 % tiles shall be free from visible defects
Physical Properties			
Water Absorption %	IS 13630 (Part 2):2006	Average > 10%	12± 2
Modulus of Rupture, in N/mm ²	IS 13630 (Part 6):2006	Min 15, for thickness < 7.5 Min 12 for thickness ≥ 7.5	>15
Breaking Strength in N	IS 13630 (Part 6):2006	< 7.5 mm thickness 200, min ≥ 7.5 mm thickness 600, min	Conforms
Moisture Expansion in mm/m	IS 13630 (Part 3):2006	0.04 Max	Conforms
Scratch Hardness (Moh's Scale)	IS 13630 (Part 13):2006	Min 3	> 3
Resistance to Surface Abrasion of Glazed Tiles	IS 13630 (Part 11):2006	Class II, Min	Conforms
Crazing Resistance	IS 13630 (Part 9):2006	4 Cycles@7.5 bar, Min	4 Cycles Passed
Thermal Specification			
Thermal Expansion		Max 9x10 ⁻⁶ @ 100 ^o (K ⁻¹)	Conforms
Thermal Shock Resistance		Min, 10 Cycles	10 Cycles Passed
Chemical Properties			
Resistance to Staining of Glazed Tiles	IS 13630 (Part 8):2006	Class I, Min	Conforms
Resistance to households chemicals, acids & alkalis (expect HF and its compounds)		Class AA, Min	Conforms

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