

## FULL BODY TILES TECHNICAL SPECIFICATION

### SPECIFICATION OF WINASA CERAMICA

SR. NO	CHARACTERISTICS	STANDARD AS PER ISO 13006 / EN 14411 GROUP Bia	MEAN VALUE OF WINASA CERAMICA	TEST METHOD
1	Deviation in Length & Width	±0.60%	±0.10%	ISO 10545-2
2	Deviation in Thickness	±5.00%	±2.00%	ISO 10545-2
3	Straightness of Sides	±0.50%	±0.10%	ISO 10545-2
4	Rectangularity	±0.60%	±0.10%	ISO 10545-2
5	Surface Flatness	±0.50%	±0.10%	ISO 10545-2
6	Glossiness	Gloss Meter	Min 90%	Glossometer
7	Water Absorption	≤0.50%	E ≤0.50%	ISO 10545-3
8	Breaking Strength	1300 N	2000 N	ISO 10545-4
9	Deep Abrasion Resistance	Max 175 mm <sup>3</sup>	Max 145. mm <sup>3</sup>	ISO 10545-6
10	Moh's Hardness	Min 6	≤ 6	EN 101
11	Frost Resistance	Frost Proof	Frost Proof	ISO 10545-12
12	Thermal Shock Resistance	No Damage	No Damage	ISO 10545-9
13	Moisture Expansion	Nil	Nil	ISO 10545-10
14	Thermal Expansion	< 9.0 x 10 <sup>-6</sup>	< 6.0 x 10 <sup>-6</sup>	ISO 10545-8
15	Resistance of House Hold Chemical	No Damage	No Damage	ISO 10545-13
16	Stain Resistance	Resistance	Resistance	ISO 10545-14
17	Slip Resistance (Friction Co-Efficient)	> 0.40	> 0.40	ISO 10545-17

Packing Details - FULL BODY TILES				
SR. NO	NOMINAL SIZE	NO. TILES PER BOX	COVERAGE AREA PER BOX	WEIGHT PER BOX
1	600x600 mm	4 Pcs.	1.44 Sq. Mtr.	28.0 Kg. (Approx.)
1	600x1200 mm	2 Pcs.	1.44 Sq. Mtr.	29.0 Kg. (Approx.)

#### DISCLAIMER:

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## DOUBLE LOAD TILES TECHNICAL SPECIFICATION

### SPECIFICATION OF WINASA CERAMICA

	CHARACTERISTICS	STANDARD AS PER ISO 13006 / EN 14411 GROUP Bia	MEAN VALUE OF WINASA CERAMICA	TEST METHOD
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<b>A REGULATORY PROPERTIES</b>				
1	Deviation in Length & Width	±0.50%	±0.10%	ISO 10545-2
2	Deviation in Thickness	±5.00%	±2.00%	ISO 10545-2
3	Straightness of Sides	±0.50%	±0.10%	ISO 10545-2
4	Rectangularity	±0.50%	±0.10%	ISO 10545-2
5	Surface Flatness	±0.50%	±0.10%	ISO 10545-2
6	Color Difference	Unaltered	No Change	ISO 10545-16
7	Glossiness	As Per Manufacturer	Min 70%	Glossometer

<b>B STRUCTURAL PROPERTIES</b>				
1	Water Absorption	≤0.50%	≤0.50%	ISO 10545-3
2	Apparent Density	2.00 gm/cc	>2.28 gm/cc	DIN 51082

<b>C MASSIVE MECHANICAL PROPERTIES</b>				
1	Flexural Modulus Of Rupture	Min 35 N/mm <sup>2</sup>	Min 40 N/mm <sup>2</sup>	ISO 10545-4
2	Flexural Breaking Strength	Min 1300 N	Min 2000 N	ISO 10545-4
3	Impact Resistance	As Per Manufacturer	Min 0.55	ISO 10545-5

<b>D SURFACE MECHANICAL PROPERTIES</b>				
1	Deep Abrasion Resistance	Max 175 mm <sup>3</sup>	Max 132 mm <sup>3</sup>	ISO 10545-6
2	Moh's Hardness	Min 6	8	EN 101

<b>E THERMO HYDROMETRIC PROPERTIES</b>				
1	Frost Resistance	No Damage	Frost Proof	ISO 10545-12
2	Thermal Shock Resistance	No Damage	No Damage	ISO 10545-9
3	Moisture Expansion	Nil	Nil	ISO 10545-10
4	Thermal Expansion	Max 9.0 x 10 <sup>-6</sup>	Max 6.5 x 10 <sup>-6</sup>	ISO 10545-8

<b>F CHEMICAL PROPERTIES</b>				
1	Chemical Resistance	No Damage	No Damage	ISO 10545-13
2	Stain Resistance	Resistant	Resistant	ISO 10545-14

<b>G SAFETY PROPERTIES</b>				
1	Slip Resistance (Friction Co-Efficient)	>0.40	>0.40	ISO 10545-17

<b>Packing Details - DOUBLE LOAD TILES</b>				
SR. NO	NOMINAL SIZE	NO. TILES PER BOX	COVERAGE AREA PER BOX	WEIGHT PER BOX
1	600x600 mm	4 Pcs.	1.44 Sq. Mtr.	25.0 Kg. (Approx.)
1	600x1200 mm	2 Pcs.	1.44 Sq. Mtr.	27.0 Kg. (Approx.)

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## SOLUBLE SALT TECHNICAL SPECIFICATION

### SPECIFICATION OF WINASA CERAMICA

SR. NO	CHARACTERISTICS	STANDARD AS PER ISO 13006 / EN 14411 GROUP Bia	MEAN VALUE OF WINASA CERAMICA	TEST METHOD
1	Deviation in Length & Width	±0.50%	±0.10%	EN 98
2	Deviation in Thickness	±0.50%	±0.10%	EN 98
3	Straightness of Sides	±0.50%	±0.10%	EN 98
4	Rectangularity	±0.50%	±0.20%	EN 98
5	Surface Flatness	±0.50%	±0.20%	EN 98
6	Water Absorption	> 0.50%	> 0.03%	EN 99
7	Moh's Hardness	> 6	> 8	EN 101
8	Flexural Straightness	> 27 N/mm <sup>2</sup>	> 47 N/mm <sup>2</sup>	EN 100
9	Abrasion Resistance	< 204 mm <sup>3</sup>	< 144 mm <sup>3</sup>	EN 102
10	Skid Resistance	< 0.4	< 0.6	ASTM C-1028
11	Breaking Strength	1113 N	2830 N	ASTM C-1028
12	Density (g/cc)	. 2	2.4	DIN 51082
13	Frost Resistance	Frost Proof	Frost Proof	EN 202
14	Chemical Resistance	No Damage	No Damage	EN 106
15	Thermal Shock Resistance	No Damage	No Damage	EN 104
16	Color Resistance	No Damage	No Damage	DIN 51094
17	Stain Resistance	Resistant	Resistant	ISO 10545-14
18	Moisture Expansion	Nil	Nil	ISO 10545-10
19	Glossiness	-	Min 6.5 x 10 <sup>-6</sup>	Glossmeter

#### Packing Details - SOLUBLE SALT

SR. NO	NOMINAL SIZE	NO. TILES PER BOX	COVERAGE AREA PER BOX	WEIGHT PER BOX
1	600x600 mm	4 Pcs.	1.44 Sq. Mtr.	22.5 Kg. (Approx.)

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