








Technical Specification




GLAZED PORCELAIN TILES

CHARACTERISTICS	Requirement as per ISO 13006:2018 Cr Bla E < 0.5%	Requirement as per IS 15622:2017 Cr Bla E < 0.08%	AGL VALUE	TEST METHOD
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(A) DIMENSION & SURFACE QUALITY

 Deviation In Length & Width	± 0.3%, ± 1.0mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Deviation In Thickness	± 5.0%, ± 0.5mm	± 5.0%	± 0.3%	ISO 10545 Part-2 IS 13630 Part-1
 Straightness of Edge	± 0.3%, ± 0.8mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Rectangularity	± 0.3%, ± 1.5mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Surface Flatness	± 0.4%, ± 1.8mm	± 0.5%	± 0.2%	ISO 10545 Part-2 IS 13630 Part-1
 Surface Quality	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	ISO 10545 Part-2 IS 13630 Part-1
 Glossiness	-	-	> 85	Glossmeter

(B) PHYSICAL & THERMAL PROPERTIES

 Water Absorption % By Wt.	≤ 0.5, Ind. 0.6 Max.	≤ 0.08, Ind. 0.1 Max.	< 0.08%	ISO 10545 Part-3 IS 13630 Part-2
 Flexural Strength (MOR) In N/mm ²	Avr. 35, Ind. Min. 32	Avr. 35, Ind. Min. 32	Min.40 N/mm ²	ISO 10545 Part-4 IS 13630 Part-6
 Breaking Strength in N	1300 N Min.	1300 N Min.	Min.1300N	ISO 10545 Part-4 IS 13630 Part-6
 Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	Min. 2.25	ISO 10545 Part-3 IS 13630 Part-2
 Impact Resistance	> 0.40	> 0.55	> 0.55	ISO 10545 Part-5 IS 13630 Part-14
 Resistance to Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI II Min.	ISO 10545 Part-7 IS 13630 Part-11
 Co-efficient of Linear Thermal Expansion from ambient temp to 100°C (K ⁻¹)	9x10 ⁻⁶ Max.	6x10 ⁻⁶ Max.	≤ 6x10 ⁻⁶	ISO 10545 Part-8 IS 13630 Part-4
 Thermal Shock Resistance	10 Cycles Min.	10 Cycles Min.	No Damage after 10 Cycles	ISO 10545 Part-9 IS 13630 Part-5
 Moisture Expansion in mm/M	Test Method Available	0.02 Max.	Nil	ISO 10545 Part-10 IS 13630 Part-3
 Crazing Resistance	Required	4 Cycles at 7.5 bar Min.	Resistance	ISO 10545 Part-11 IS 13630 Part-9
 Frost Resistance	Resistance	Resistance	Resistance	ISO 10545 Part-12 IS 13630 Part-10
 Moh'S Scratch Hardness	Min. 5	Min. 5	Min. 5	EN 101 IS 13630 Part-13

(C) CHEMICAL PROPERTIES

 Resistance To Household Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
 Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
 Stain Resistance	Min. Class 3	Min. Class 1	Resistance	ISO 10545 Part-14 IS 13630 Part-8

Packing Specification








Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Set	Area Sq. mtr./ Box
300x600mm	9.0 mm	18.0 kgs.	05 pcs.	0.90m ²

Technical Specification

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(A) DIMENSION & SURFACE QUALITY

 Deviation In Length & Width	± 0.3%, ± 1.0mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Deviation In Thickness	± 5.0%, ± 0.5mm	± 5.0%	± 0.3%	ISO 10545 Part-2 IS 13630 Part-1
 Straightness of Edge	± 0.3%, ± 0.8mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Rectangularity	± 0.3%, ± 1.5mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Surface Flatness	± 0.4%, ± 1.8mm	± 0.5%	± 0.2%	ISO 10545 Part-2 IS 13630 Part-1
 Surface Quality	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	ISO 10545 Part-2 IS 13630 Part-1
 Glossiness	-	-	> 85	Glossmeter

(B) PHYSICAL & THERMAL PROPERTIES

 Water Absorption % By Wt.	≤ 0.5, Ind. 0.6 Max.	≤ 0.08, Ind. 0.1 Max.	< 0.08%	ISO 10545 Part-3 IS 13630 Part-2
 Flexural Strength (MOR) In N/mm ²	Avr. 35, Ind. Min. 32	Avr. 35, Ind. Min. 32	Min.40 N/mm ²	ISO 10545 Part-4 IS 13630 Part-6
 Breaking Strength in N	1300 N Min.	1300 N Min.	Min.1300N	ISO 10545 Part-4 IS 13630 Part-6
 Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	Min. 2.25	ISO 10545 Part-3 IS 13630 Part-2
 Impact Resistance	> 0.40	> 0.55	> 0.55	ISO 10545 Part-5 IS 13630 Part-14
 Resistance to Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI II Min.	ISO 10545 Part-7 IS 13630 Part-11
 Co-efficient of Linear Thermal Expansion from ambient temp to 100°C (K ⁻¹)	9x10 ⁻⁶ Max.	6x10 ⁻⁶ Max.	≤ 6x10 ⁻⁶	ISO 10545 Part-8 IS 13630 Part-4
 Thermal Shock Resistance	10 Cycles Min.	10 Cycles Min.	No Damage after 10 Cycles	ISO 10545 Part-9 IS 13630 Part-5
 Moisture Expansion in mm/M	Test Method Available	0.02 Max.	Nil	ISO 10545 Part-10 IS 13630 Part-3
 Crazing Resistance	Required	4 Cycles at 7.5 bar Min.	Resistance	ISO 10545 Part-11 IS 13630 Part-9
 Frost Resistance	Resistance	Resistance	Resistance	ISO 10545 Part-12 IS 13630 Part-10
 Moh'S Scratch Hardness	Min. 5	Min. 5	Min. 5	EN 101 IS 13630 Part-13

(C) CHEMICAL PROPERTIES

 Resistance To Household Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
 Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
 Stain Resistance	Min. Class 3	Min. Class 1	Resistance	ISO 10545 Part-14 IS 13630 Part-8

Packing Specification

Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Set	Area Sq. mtr./ Box
600x1200mm	8.4 mm	27.0 kgs.	02 pcs.	1.44m ²

GLAZED PORCELAIN SLAB

CHARACTERISTICS	TEST METHOD	MEAN VALUE OF ADICON	STD. AS PER ISO13006:2012/ EN14411 Gr.BIa	STD. AS PER IS15622:2017 Gr.BIa
Regulatory Properties				
Deviation in length and width	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.10 %
Deviation in thickness	ISO 10545-2 & IS 13630-1	± 4.00 %	± 5.00 %	± 5.0 %
Straightness in side	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.10 %
Rectangularity	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.60 %	± 0.10%
Surface flatness Central Curvature	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface flatness Edge Curvature	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface flatness Warpage	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface Quality	ISO 10545-2 & IS 13630-1	> 95% defects free	> 95% defects free	> 95% defects free
Small Color Difference	ISO 10545-16	No Change	Unaltered	N.A.
Glossiness (With Nano Polished)	Gloss Meter 60°	> 90° **	As per Mfg.	As per Mfg.
Glossiness (Without Polished)	Gloss Meter 60°	7° < Gloss < 14***	As per Mfg.	As per Mfg.
Glossiness (Satin Finished)	Gloss Meter 60°	15° < Gloss < 25***	As per Mfg.	As per Mfg.
Structural Properties				
Water absorption	ISO 10545-2 & IS 13630-3	≤ 0.05 %	≤ 0.50 %	≤ 0.80 %
Bulk density	DIN51082 & IS 13630-3	> 2.28 gm/cc	> 2.00 g/cc	Min. 2.20 g/cc
Massive Mechanical Properties				
Modulus of rupture	ISO 10545-4 & IS 13630-6	Min. 37.0 N/mm ²	Min. 35.0 N/mm ²	Min. 35.0 N/mm ²
Breaking strength thickness <7.5	ISO 10545-4 & IS 13630-6	Min. 1000.0 N	Min. 700.0 N	Min. 700.0 N
Breaking strength thickness ≥7.5	ISO 10545-4 & IS 13630-6	Min. 1600.0 N	Min. 1300.0 N	Min. 1100.0 N
Surface Mechanical Properties				
MOH'S hardness	EN 101 & IS 13630-13	Min. 4***	Min. 4	Min. 5
Surface abrasion resistance-Glossy #	ISO 10545-7 & IS 13630-11	Min. Class 2	As per Mfg.	Min. Class II
Surface abrasion resistance-Matt #	ISO 10545-7 & IS 13630-11	Min. Class 3	As per Mfg.	Min. Class II
Thermal Hydrometric Properties				
Moisture expansion	ISO 10545-10 & IS 13630-3	NIL	Max. 0.06	Max. 0.02
Thermal expansion(COE) at 100°C	ISO 10545-8 & IS 13630-4	Max. 6.0 x 10 ⁻⁶	As per Mfg.	Max. 7.0 x 10 ⁻⁶
Thermal shock resistance	ISO 10545-9 & IS 13630-5	Min. 10 Cycle	Min. 10 Cycle	Min. 10 Cycle
Crazing Resistance at 7.5 Bar	ISO10545-11 & IS 13630-9	Min. 6 Cycle	As per Mfg.	Min. 4 Cycle
Impact resistance(COR)	ISO 10545-5 & IS 13630-14	Min. 0.55	As per Mfg.	Min. 0.55
Frost resistance	ISO10545-12 & IS 13630-10	Frost Proof	As per Mfg.	As per Mfg.
Chemical Properties				
**Resistance to Staining Glazed	ISO 10545-14 & IS 13630-8	Min. Class 4 / Min. Class I	Min. Class 3	Min. Class I
**Resistance to Household Chemicals & Swimming Pool Salts Glazed	ISO 10545-13 & IS 13630-8	Min. Class GA / Min. Class AA	Min. Class GB	Min. Class AA
Resistance to Low / High Concentrate Acid and Alkalis Glazed	ISO 10545-13 & IS 13630-8	Min. Class GLB** / Min. Class A****	As per Mfg.	As per Mfg.
Safety Properties				
Skid resistance(DCOF-DRY)	ISO 10545-17	> 0.40	As per Mfg.	As per Mfg.
Slip resistance(DCOF)(R value)##	ISO 10545-17	As per surface	As per Mfg.	As per Mfg.
Determination of Lead & Cadmium Release for Glazed Tiles	ISO 10545-15	Dose not yield Pb & Cd	As per Mfg.	N.A.
Fire Resistance	N.A.	Fire Proof	As per Mfg.	As per Mfg.

Glaze tiles Intended for use on floor

As per customer requirement

** Glossiness 90% with nano technology

*** Without nano technology (Unpolished Vitrified tiles)

**** Except Hydrofluoric Acid & it's compound

Pallet & Container Packing

Size	Thickness	sq. mtr / Slab	Weight / Slab	Pallet Type	Slabs / Pallet	Weight / Pallet	Pallet / Container	Slabs / Container	sq. mtr / Container	Weight / Container	Size of Container
3200x1600mm	12mm	5.12	145.0 kg	A-Frame	20 slabs	3010kg	9	180	921.60	27090kg	40 ft
3200x1600mm	20mm	5.12	238.0 kg	A-Frame	12 slabs	2966kg	9	108	552.96	26694kg	40 ft

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GLAZED PORCELAIN TILES

CHARACTERISTICS	Requirement as per ISO 13006:2018 Gr Bla E < 0.5%	Requirement as per IS 15622:2017 Gr Bla E < 0.08%	MEAN VALUE OF AGL	METHOD OF TESTING
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Regulatory Properties

Deviation In Length & Width	± 0.3%, ± 1.0mm	± 0.1%	≤± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Deviation In Thickness	± 5.0%, ± 0.5mm	± 5.0%	± 4.0%	ISO 10545 Part-2 IS 13630 Part-1
Straightness of Edge	± 0.3%, ± 0.8mm	± 0.1%	≤± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Rectangularity	± 0.3%, ± 1.5mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Surface Flatness	± 0.4%, ± 1.8mm	± 0.5%	± 0.2%	ISO 10545 Part-2 IS 13630 Part-1
Surface Quality	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	ISO 10545 Part-2 IS 13630 Part-1
Glossiness	-	-	90-95 in Glossy surface	Glossmeter

Physical & Thermal Properties

Water Absorption % By Wt.	< 0.5, Ind. 0.6 Max.	< 0.08, Ind. 0.1 Max.	< 0.08%	ISO 10545 Part-3 IS 13630 Part-2
Flexural Strength (MOR) In N/mm ²	Avr. 35, Ind. Min. 32	Avr. 35, Ind. Min. 32	Min. 40 N/mm ²	ISO 10545 Part-4 IS 13630 Part-6
Breaking Strength in N	1300 N Min.	1300 N Min.	Min. 1300 N	ISO 10545 Part-4 IS 13630 Part-6
Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	Min. 2.25	ISO 10545 Part-3 IS 13630 Part-2
Resistance to Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI III Min.	ISO 10545 Part-7 IS 13630 Part-11
Co-efficient of Linear Thermal Expansion from ambient temp to 100°C (K-1)	9x10 ⁻⁶ Max.	6x10 ⁻⁶ Max.	< 6x10 ⁻⁶	ISO 10545 Part-8 IS 13630 Part-4
Thermal Shock Resistance	10 Cycles Min.	10 Cycles Min.	No Damage after 10 Cycles min.	ISO 10545 Part-9 IS 13630 Part-5
Moisture Expansion in mm/M	Test Method Available	0.02 Max.	Nil	ISO 10545 Part-10 IS 13630 Part-3
Crazing Resistance	Required	4 Cycles at 7.5 bar Min.	Resistance	ISO 10545 Part-11 IS 13630 Part-9
	Resistance	Resistance	Resistance	ISO 10545 Part-12 IS 13630 Part-10
	Min. 5	Min. 5	Min. 5	EN 101/IS 13630 Part-13

Chemical Properties

Resistance To House hold Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8 ISO 10545 Part-14

PACKING SPECIFICATION








Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Set	Area Sq. mtr./ Box
1200x1800mm	9 mm	90.0 kgs.	2 pcs.	4.32m ²
1200x1800mm	15 mm	77.0 kgs.	1 pcs.	2.16m ²

Technical Specification


GLAZED PORCELAIN TILES

CHARACTERISTICS	Requirement as per ISO 13006:2018 Gr Bla E < 0.5%	Requirement as per IS 15622:2017 Gr Bla E < 0.08%	AGL VALUE	TEST METHOD
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(A) DIMENSION & SURFACE QUALITY

 Deviation In Length & Width	± 0.3%, ± 1.0mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Deviation In Thickness	± 5.0%, ± 0.5mm	± 5.0%	± 0.3%	ISO 10545 Part-2 IS 13630 Part-1
 Straightness of Edge	± 0.3%, ± 0.8mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Rectangularity	± 0.3%, ± 1.5mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Surface Flatness	± 0.4%, ± 1.8mm	± 0.5%	± 0.2%	ISO 10545 Part-2 IS 13630 Part-1
 Surface Quality	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	ISO 10545 Part-2 IS 13630 Part-1
 Glossiness	-	-	> 85	Glossmeter

(B) PHYSICAL & THERMAL PROPERTIES

 Water Absorption % By Wt.	≤ 0.5, Ind. 0.6 Max.	≤ 0.08, Ind. 0.1 Max.	< 0.08%	ISO 10545 Part-3 IS 13630 Part-2
 Flexural Strength (MOR) In N/mm ²	Avr. 35, Ind. Min. 32	Avr. 35, Ind. Min. 32	Min.40 N/mm ²	ISO 10545 Part-4 IS 13630 Part-6
 Breaking Strength in N	1300 N Min.	1300 N Min.	Min.1300N	ISO 10545 Part-4 IS 13630 Part-6
 Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	Min. 2.25	ISO 10545 Part-3 IS 13630 Part-2
 Impact Resistance	> 0.40	> 0.55	> 0.55	ISO 10545 Part-5 IS 13630 Part-14
 Resistance to Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI II Min.	ISO 10545 Part-7 IS 13630 Part-11
 Co-efficient of Linear Thermal Expansion from ambient temp to 100°C (K ⁻¹)	9x10 ⁻⁶ Max.	6x10 ⁻⁶ Max.	≤ 6x10 ⁻⁶	ISO 10545 Part-8 IS 13630 Part-4
 Thermal Shock Resistance	10 Cycles Min.	10 Cycles Min.	No Damage after 10 Cycles	ISO 10545 Part-9 IS 13630 Part-5
 Moisture Expansion in mm/M	Test Method Available	0.02 Max.	Nil	ISO 10545 Part-10 IS 13630 Part-3
 Crazing Resistance	Required	4 Cycles at 7.5 bar Min.	Resistance	ISO 10545 Part-11 IS 13630 Part-9
 Frost Resistance	Resistance	Resistance	Resistance	ISO 10545 Part-12 IS 13630 Part-10
 Moh'S Scratch Hardness	Min. 5	Min. 5	Min. 5	EN 101 IS 13630 Part-13

(C) CHEMICAL PROPERTIES

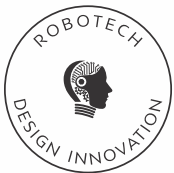
 Resistance To Household Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
 Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
 Stain Resistance	Min. Class 3	Min. Class 1	Resistance	ISO 10545 Part-14 IS 13630 Part-8

Packing Specification

Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Set	Area Sq. mtr./ Box
1200x200mm	9.5 mm	31.0 kgs.	06 pcs.	1.44m ²

Quartz Technical specification

TEST SPECIFICATION	STANDARD OF TEST	STANDARD OF MEASUREMENT	RANGE OF AGL QUARTZ
Water Absorption	EN 14617 1	%	<0.1
Thermal Expansion Linear Coefficient Of T.e.	EN 14617 - 11	10-6 /°C	<30
Surface Hardness	EN 101	Moh's Scale	6 7
Density	EN 14617 1	gm / cc	>2.30
Compressive Strength	EN 14617 15	Mpa	170 - 250
Flexural Strength / Module	EN 14617 2	Mpa	27 60
Glossiness	Reflection	%	>55
Chemical Resistance (Resistance to acid)	EN 14617 10	Cl.C4	C1.C4
Resistance To Fire	DIN 4102		bl
Shock Resistance	ASTM C848		No Scaling
Slippage Resistance	DIN 51130	Joule	Levigato 320 = R9Honed 320 = R9Geschliffen 320 = R9
Resistance To De-Icing Salts	ASTM C672		120 180
Resistance To Rapid Freezing & Thawing	"ASTM C666 DIN 52104"		Levigato 320 = R9Honed 320 = R9 Geschliffen 320 = R9
Impact Resistance	ASTM C1709		5. + / -2
Abrasion Resistance	EN 14617- 4	mm	172 25



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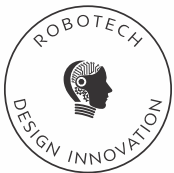
Note: Due to printing process, the colour of the actual products may differ from the picture. For true colour matching purposes refer the sample.

Quartz Pallet & Container Packing

Sr. No.	Size	Thickness	No. of Slab	Sq. Mtr./ Slab	Weight/ Slab	Slab/ Pallet	Slab/ Container	Total Sq.Mtr/ Container	Pallet/ Container
1	3560x2010mm 140x79in 356x201cm	20	1	7.10	350	10	72	511.20	7
2	3560x2010mm 140x79in 356x201cm	30	1	7.10	520	7	52	369.20	7

Quartz Technical specification

TEST SPECIFICATION	STANDARD OF TEST	STANDARD OF MEASUREMENT	RANGE OF AGL QUARTZ
Water Absorption	EN 14617 1	%	<0.1
Thermal Expansion Linear Coefficient Of T.e.	EN 14617 - 11	10-6 /°C	<30
Surface Hardness	EN 101	Moh's Scale	6 7
Density	EN 14617 1	gm / cc	>2.30
Compressive Strength	EN 14617 15	Mpa	170 - 250
Flexural Strength / Module	EN 14617 2	Mpa	27 60
Glossiness	Reflection	%	>55
Chemical Resistance (Resistance to acid)	EN 14617 10	Cl.C4	C1.C4
Resistance To Fire	DIN 4102		bl
Shock Resistance	ASTM C848		No Scaling
Slippage Resistance	DIN 51130	Joule	Levigato 320 = R9Honed 320 = R9Geschliffen 320 = R9
Resistance To De-Icing Salts	ASTM C672		120 180
Resistance To Rapid Freezing & Thawing	"ASTM C666 DIN 52104"		Levigato 320 = R9Honed 320 = R9 Geschliffen 320 = R9
Impact Resistance	ASTM C1709		5. + / -2
Abrasion Resistance	EN 14617- 4	mm	172 25



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Note: Due to printing process, the colour of the actual products may differ from the picture. For true colour matching purposes refer the sample.

Quartz Pallet & Container Packing

Sr. No.	Size	Thickness	No. of Slab	Sq. Mtr./ Slab	Weight Slab	Slab/ Pallet	Slab/ Container	Total Sq.Mtr./ Container	Pallet/ Container
1	3200x1600mm 126x63in 320x160cm	20	1	5.12	250	15	105	537.6	7
2	3200x1600mm 126x63in 320x160cm	30	1	5.12	350	10	70	358.4	7

Technical Specification **SUBWAY** Collection

CHARACTERISTICS	VERDICT	Requirement as per IS 15622:2017 Gr Bla E ≤ 0.08%	AGL Value	Test Method
(A) DIMENSION & SURFACE QUALITY				
Deviation In Length & Width	PASSED	± 0.4%	± 0.1%	IS 13630 Part-1
Deviation In Thickness	PASSED	± 5.0%	± 3.0%	
Straightness of Edge	PASSED	± 0.20%	± 0.15%	
Rectangularity	PASSED	± 0.30%	± 0.15%	
Surface Flatness	PASSED	± 0.3%	± 0.4%	
Surface Quality	PASSED	Min 95% free from visible defects	> 95% free from visible defects	
(B) PHYSICAL & THERMAL PROPERTIES				
Water Absorption % By Wt.	PASSED	> 10%	14-20%	IS 13630 Part-2
Flexural Strength (MOR) In N/mm ²	PASSED	Avr. 15N/mm ²	> 15N/mm ²	IS 13630 Part-6
Breaking Strength in N	PASSED	Min 200N	> 250N	IS 13630 Part-6
Impact Resistance	PASSED	0.55 Min	0.58	IS 13630 Part-14
Thermal Shock Resistance	PASSED	10 Cycles Min.	Passed 10 Cycles	IS 13630 Part-5
Moisture Expansion in mm/M	PASSED	0.04MM/M Max	0.02MM/M Max	IS 13630 Part-3
Crazing Resistance	PASSED	4 Cycles at 7.5 bar Min.	Passed The Test	IS 13630 Part-9
Frost Resistance	PASSED	Resistance	Resistance	IS 13630 Part-10
Moh'S Scratch Hardness	PASSED	Min. 3	Min. 3	IS 13630 Part-13
(C) CHEMICAL PROPERTIES				
Resistance To House hold Chemicals	PASSED	Min. Class AA	Class AA	IS 13630 Part-8
Resistance To Acids & Alkalis (Except HF Acid)	PASSED	Min. Class AA	Class AA	IS 13630 Part-8
Stain Resistance	PASSED	Min. Class 1	Resistance	IS 13630 Part-8

Technical Specification **MOSAIC** Collection

CHARACTERISTICS	VERDICT	Requirement as per IS 15622:2017 Gr Bla E ≤ 0.08%	AGL Value	Test Method
(A) DIMENSION & SURFACE QUALITY				
Deviation In Length & Width	PASSED	± 0.1%	± 0.1%	IS 13630 Part-1
Deviation In Thickness	PASSED	± 5.0%	± 3.0%	
Straightness of Edge	PASSED	± 0.1%	± 0.1%	
Rectangularity	PASSED	± 0.1%	± 0.1%	
Surface Flatness	PASSED	± 0.3%	± 0.4%	
Surface Quality	PASSED	Min 95% free from visible defects	> 95% free from visible defects	
(B) PHYSICAL & THERMAL PROPERTIES				
Water Absorption % By Wt.	PASSED	0.08 <E ≤ 3%	< 3.0%	IS 13630 Part-2
Flexural Strength (MOR) In N/mm ²	PASSED	Avr.30.0 N/MM ² Ind 27 N/MM ²	>27N/MM ²	IS 13630 Part-6
Breaking Strength in N	PASSED	Min 1100 N	>1200 N	IS 13630 Part-6
Bulk Density (gm/cc)	PASSED	Min. 2.0	>2.0	IS 13630 Part-2
Impact Resistance	PASSED	0.55 Min	>0.55	IS 13630 Part-14
Resistance to Surface Abrasion	PASSED	Class II Min.	Class III Min.	IS 13630 Part-7
Thermal Shock Resistance	PASSED	10 Cycles Min.	Passed 10 Cycles	IS 13630 Part-5
Moisture Expansion in mm/M	PASSED	0.02MM/M	Null	IS 13630 Part-3
Crazing Resistance	PASSED	4 Cycles at 7.5 bar Min.	Passed The Test	IS 13630 Part-9
Frost Resistance	PASSED	Resistance	Resistance	IS 13630 Part-10
Moh'S Scratch Hardness	PASSED	Min. 5	Min. 5	IS 13630 Part-13
(C) CHEMICAL PROPERTIES				
Resistance To House hold Chemicals	PASSED	Min. Class AA	Class AA	IS 13630 Part-8
Resistance To Acids & Alkalis (Except HF Acid)	PASSED	Min. Class AA	Class AA	IS 13630 Part-8
Stain Resistance	PASSED	Min. Class 1	Class 1	IS 13630 Part-8

SUBWAY Collection / Mosaics Collection

Pattern	Size (MM)	Area M ²	Chip Size	Weight (Kg.)	Packing/Box
HEXAGON	255X295	16.19	23X25MM	16	20PCS
LANTERN	260X265	14.83	42X75MM	17	20PCS
ARABESQUE	260X265	14.83	57X62MM	17	20PCS
HERRINGBONE	275X282	12.52	12X48MM	20	15PCS
HEXAGON	277X322	19.20	51X59MM	23	20PCS
STACKBONE	285X295	13.57	12X93MM	20	15PCS
FISHSCALE	292X292	18.35	23X94MM	22	20PCS
OCTAGON	295X295	18.73	23X23/55X55MM	22	20PCS
BRICKBONE	300X290	18.73	45X145MM	21	20PCS
POOL	298X298	19.11	73X73MM	24	20PCS
POOL	300X300	19.38	23X23MM	21	20PCS
POOL	303X303	19.76	48X48MM	23	20PCS
SQUARE	303X303	19.76	48X48MM	23	20PCS
PENNY ROUNDS	313X292	19.67	19MM	19	20PCS
SHALLOW	65X260	12.00	SUBWAY	14	66PCS
CLODY	75X300	10.65	SUBWAY	14	44PCS
EMBOSS	75X300	10.65	SUBWAY	14	44PCS
FLUTE	75X300	10.65	SUBWAY	14	44PCS
DESIGNER VT	300X300	9.68	FRESCO	18	10PCS
DESIGNER VT	600X600	15.50	FRESCO	28	4PCS
POLL	100X200	10.76	PLAIN	12.05	50PCS
POLL	115X240	9.50	PLAIN	15.60	32PCS

Art Collection

Size (MM)	Area M ²	Weight (Kg.)	Packing/Box
600x600	9.69	28	4 PCS
300x300	15.5	18	10 PCS

Subway Collection

Size (MM)	Area M ²	Weight (Kg.)	Packing/Box
65x260	13.57	14.2	66 PCS
75x300	18.36	13.5	44 PCS

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