

TECHNICAL SPECIFICATION

DIGITAL WALL TILES

CHARACTERISTIC		
DIMENSION & SURFACE QUALITY	IS 15622 : 2006 SPECIFICATIONS	BONZER7 VALUE
Deviation In Length	±0.2%	
Deviation In Thickness	±4%	
Straightness Of Sides	±0.15%	±0.15%
Rectangularity	±0.15%	
Surface Flatness	±0.22%	
Surface Quality	Min.95% of tile surface shall be free from visible defects	Min.95% of tile surface shall be free from visible defects
PHYSICAL & THERMAL PROPERTIES		
Water Absorption	≥ 10%	
Bending Strength	Avg. 15N/mm ²	Avg. 17N/mm ²
Scratch Hardness (mohs)	Min.3	Min.3
Surface Abrasion	N.A.	
Cracking	Pass 4 Cycles	Pass
CHEMICAL PROPERTIES		
Staining Resistance	Min.Class I	Passes
Household Chemicals	Min. Class AA	Resistance to all, except hydrofluoric acid & its compound
THERMAL PROPERTIES		
Thermal Shock	N.A.	N.A.
Thermal Expansion	9x10 ⁻⁶ K ⁻¹ max.	

*(Not applicable for structured/rustic punch)

BONZER7 PACKING SPECIFICATION

Type	Size (mm)	Thickness	Weight (Kg.)	No. of Tiles / set	Area Sq.mtr / Box
WALL DECOR	300x900	11	21	4	1.08
	300x600	10	19	6	1.08
WALL TILES	300x900	11	21	4	1.08
	300x600	10	19	6	1.08
FLOOR TILES	300x300	8.5	16	12	1.08

List of Detergents for Removal of Stain

STAIN (Created by):	Bleach	Blood	Colour	Cement	Cigarette	Soft Drinks	Coffee	Etching Oil	Glue	Ice Cream	Ink	Juices	Marker Ink	Nicotine	Paints	Resin	Rust	Tar	Tea	Uremic	Wine	
SOLVENTS (Turpentine, acetone, trichloroethylene - line etc.)																						
SODIUM HYPO Chlorite (NaOCl)																						
ACIDS DILUTED (Hydrochloric acid*)			*	*	*																	
ALKALI (Sodium hydroxide/potassium hydroxide)	*	*				*	*			*												*

*Commercial grade shall not be used

APPLICATION

Recommended for interior application on wall on all types of buildings & Matt finished tiles for floor application of very low traffic areas only.



*NOTES:

- All Technical Specifications In This Catalogue Are For Premium Grade Material Only.
- SHADE/SIZE VARIATION** are inherent characteristics to ceramics. Certain products purposely have variations which are part of design & process. The same have been indicated.
- It is Recommended To Blend Tiles By Mixing Tiles From Various Boxes & Check For Natural Hue Before Fixing The Tiles.
- It is recommended to check the tiles before laying/fixing. Quality standards cover only 1st/Premium Quality only.
- Company's liability is limited on material that has not been laid.
- NO COMPLAINT SHALL BE ENTERTAINED ON TILES ALREADY FIXED/LAID.**
- The liability is also limited to the material supplied by the company; no other claim is entertained under any circumstances.
- No complaint is entertained on decoration done on tiles, other than the ones done by BONZER7.

GENERAL NOTE : Any Complaint Must Be Brought To The Company's Notice Within 10 Days Of Purchase & Before Fixing Of Tiles.

How to avoid defects & complaints :

- Use good quality Tiles
- Choose good quality Tiles, with proper consideration to area intended of usage.
- Avoid careless laying of Tiles

- Avoid poor maintenance - for instance, by cleaning with strong chemicals or with abrasive equipment e.g. metallic scrubber
- Always keep Tiled area clean & ensure dusting/mopping regularly
- Put Doormats/Foot-mats at all strategic locations to avoid loose debris/dust from entering the Tiled area

DIGITAL VITRIFIED TILES

CHARACTERISTIC			
DIMENSION & SURFACE QUALITY	International Specifications ISO 15622: 2006, EN 12004 Group & IS 15622 : 2006	ASIAN VALUE	METHOD OF TESTING
Deviation In Length	±0.6%	±0.1%	ISO 10545 Pt 2
Deviation In Thickness	±5%	±2%	ISO 10545 Pt 2
Straightness Of Sides	±0.5%	±0.1%	ISO 10545 Pt 2
Rectangularity	±0.6%	±0.2%	ISO 10545 Pt 2
**Surface Flatness	±0.5%	±0.2%	ISO 10545 Pt 2
**Glossiness	-	Min. 80% Reflection	Glossmeter
PHYSICAL & THERMAL PROPERTIES			
Water Absorption	<0.5%	<0.05%	ISO 10545 Pt 3
Mohs Hardness*	>6	8	EN 101
Flexural Strength	35 N/mm ²	>46 N/mm ²	ISO 10545 Pt 4
Abrasion Resistance**	<175	<144	ISO 10545 Pt 6
**Skid Resistance (Friction Coefficient)	Resistant	>0.4	ISO 10545 Pt 17
Breaking Strength	1113 N	2800 N	ISO 10545 Pt 4
Density (g/cc)	>2.0	>2.4	ISO 10545 Pt 3
Frost Resistance	Frost Proof	Frost Proof	ISO 10545 Pt 9
Thermal Shock Resistance	No Damage	No Damage	ISO 10545 Pt 9
Thermal Expansion	<9 x 10 ⁻⁶	<6 x 10 ⁻⁶	ISO 10545 Pt 8
Moisture Expansion	Nil	Nil	ISO 10545 Pt 10
CHEMICAL PROPERTIES			
Chemical Resistance	No Damage	No Damage	ISO 10545 Pt 13
Colour Resistance	No Damage	No Damage	DIN 51094
Stain Resistance	Resistant	Resistant	ISO 10545 Pt 14

* Mohs Hardness Excluded from the standards.
** These parameters are not applicable for GRESTEK/GRESTEK NXT* Vitrified Tiles.
** These parameters are not applicable for GRESTEK

Applications



VITRIFIED SPECIFICATION

Size (mm)	Thickness	Weight (Kg.)	No. of Tiles / set	Area Sq.mtr / Box
605.0 x 605.0	9.5mm	32	4	1.46m ²



CERAMIC WALL TILES

CHARACTERISTICS	IS 15622:2006 Specification	BONZER 7 VALUE	METHOD OF TESTING
Deviation in Length	Max.+/- 0.5%	Max.+/- 0.5%	EN-98/ISO-10545.2/ IS:13630 (Part-1)
Deviation in Thickness	Max.+/- 0.5%	Max.+/- 0.5%	EN-98/ISO-10545.2/ IS:13630 (Part-1)
Wedging Warpage	Max.+/- 0.5%	Max.+/- 0.5%	EN-98/ISO-10545.2/ IS:13630 (Part-1)
Squareness	Max.+/- 0.5%	Max.+/- 0.5%	EN-98/ISO-10545.2/ IS:13630 (Part-1)
Water Absorption	Greater than 10%	11 to 15%	EN-99/ISO-10545.3/ IS:13630 (Part-2)
Scratch Resistance	Min. 3	Min. 4	EN-101/IS-13630 (part-13)
Abrasion Resistance	As per the abrasion class indicated by the manufacturer	PIE Group IV	EN-154/ISO-10545.7/ IS : 13630 (part-11)
Crazing Resistance	In conformity with the norms	In conformity with the norms	EN-105/ISO-10545.7/ IS:13630 (part-9)
Chemical Resistance	Resistant to all acids and alkalies (except Hydrofluoric acid and its compounds)	Resistant to all acids and alkalies (except Hydrofluoric acid and its compounds)	EN-122/ISO-10545.13/ IS:13630 (part- 8)
Bending Strength	Min. 150 kg/cm ²	Avg. 200 kg/cm ²	EN-100/ISO-10545.4/ IS:13630 (part-6)

Packing Details

Particulars	Dimensions	Thickness Approx	Pieces/box	Weight Approx	Coverage/box
Tiles	300x600mm	10mm	6 Pcs	~19 kg.	1.08 sq. Mtr
	300x450mm	9mm	8 Pcs	~17 kg.	1.08 sq. Mtr
	300x300mm	8mm	12 Pcs	~16 kg.	1.08 sq. Mtr
	250x400mm	~8mm	10 Pcs.	~13.5 Kg.	1.00 sq. Mtr
	250x250mm	~8mm	13 Pcs.	~11 Kg.	0.8 Sq. Mtr.
	200x400mm	~8mm	10 Pcs.	~12 Kg.	0.9 Sq. Mtr.
	200x300mm	~7mm	15 Pcs.	~10 Kg.	0.9 Sq. Mtr.

VITRIFIED TILES

Sr. No.	Pictogram	Property	International Std. ISO 13006/EN 176 Group BII	Asian Vitrified Tiles Value	Method of Testing
01		Deviation in Length	+/-0.6%	+/-0.1%	ISO 10545 Pt 2
02		Deviation in Thickness	+/-5%	+/-2%	ISO 10545 Pt 2
03		Straightness of Sides	+/-0.3%	+/-0.1%	ISO 10545 Pt 2
04		Rectangularity	+/-0.6%	+/-0.2%	ISO 10545 Pt 2
05		**Surface Flatness	+/-0.3%	+/-0.2%	ISO 10545 Pt 2
06		Water Absorption	<0.5%	<0.05%	ISO 10545 Pt 3
07		*Mohs Hardness	≥6	8	EN 101
08		Flexural Strength	≥35 N/mm ²	246 N/mm ²	ISO 10545 Pt 4
09		Abrasion Resistance	<175 mm ³	<144mm ³	ISO 10545 Pt 6
10		**Skid Resistance (Friction Coefficient)	≥0.4	≥0.4	ISO 10545 Pt 17
11		Breaking Strength	1113 N	2800 N	ISO 10545 Pt 4
12		Density (g/cc)	≥2.0	≥2.4	ISO 10545 Pt 3
13		Frost Resistance	Frost proof	Frost proof	ISO 10545 Pt 12
14		Chemical Resistance	No damage	No damage	ISO 10545 Pt 13
15		Thermal Shock Resistance	No damage	No damage	ISO 10545 Pt 9
16		Colour Resistance	No damage	No damage	DIN 51094
17		Thermal Expansion	<9 x 10 ⁻⁶	<6 x 10 ⁻⁶	ISO 10545 Pt 8
18		Stain Resistance	Resistant	Resistant	ISO 10545 Pt 14
19		Moisture Expansion	Nil	Nil	ISO 10545 Pt 10
20		**Glossiness	-	Min. 80% reflection	Glossimeter

*This test has now been dropped from the International standard 13006
 **These parameters are not applicable for SatinStone & Rustic Vitrified Tiles (Self Structured Purches)
 Note: All the test results are tested by VITI (Veermata Jijabai Technological Institute) Mumbai

List of Detergents for Removal of Stain

STAIN (Created by) >>	Ball Pen Ink	Bear	Blood	Calor	Cement	Copertite	Coza Cola	Coffee	Edible Oil	Glue	Ice Cream	Ink	Juices	Marker Ink	Nicotine	Paints	Beer	Bart	Flur	Tea	Wine	
SOLVENTS (Turpentine, acetone, trichloroety - line etc.)	*								*	*	*	*	*	*	*	*	*	*	*	*	*	*
SODIUM HYPO Chlorite (NaOCl)														*								*
ACIDS (Hydrochloric acid*)				*	*	*					*				*	*	*	*	*	*	*	*
ALKALI (Sodium hydroxide/potassium hydroxide)	*	*	*				*	*		*	*											*

*Commercial grade shall not be used

Packing Details

No.	Size	1000x1000mm	800x800mm	600x600mm	300x300mm
01	Thickness (mm) Approx	13mm	10.5mm	10mm	10mm
02	Weight Per Box. (Kgs.) Approx	58	43	32	20
03	No. of Tiles Per Box	2	3	4	10
04	Sq. Mtr. Per Box	2	1.92	1.46	0.9

GENERAL NOTE: All Technical Specifications in this catalogue are for Premium Grade material only.

DISCLAIMER: Asian reserv

UNDERSTANDING ICONS

Mesh Mounted



Floor Tile



Wall Tile



Slight Variation



Moderate Variation



Heavy Variation



DISCLAIMER: Bonzer 7 reserves the right to delete & amend either totally or partially, any of the colors, shapes, sizes, references and other technical specifications contained in this catalogue at anytime. the colors shown of tiles in this catalogue are purely illustrative and limited to printing process. please refer actual sample before final selection. the details of sizes, colors, references should be verified for typographical errors.