

TEST REPORT

Test Order/Report No. BVIPL: TILES : 25941C/153/12/2017
Date of Receipt: 02.12.2017

Date : 18.12.2017
Page 1 of 3

Simola Vitrified Pvt. Ltd.

Old Ghuntu Road, B/h Nelco Ceramics Morbi – 363642 (Gujrat) INDIA

FINAL TEST REPORT ON CERAMIC TILES

Source of Sample : Sample supplied by the customer.
Number of sample Tested : 10 (Ten Only)
Customer's Reference : Email dt.02.12.2017
Type of Tile/ Brand* : Glazed Tiles/ SIMOLA
Size* : 600 x 600 x 20 mm
Lab Reference Number : 2017/DEC/250923
Condition of sample : Satisfactory
Period of Test : 06.12.2017 to 15.12.2017
Technical Reference : IS: 13630-2006 RA 2012

1. DIMENSION AND SURFACE QUALITY: (Part 1)

a) MEASUREMENT: Length, Width & Thickness.

Sl. No	Id mark*	Measured dimension (mm)	Deviation in Average Size of each tile from the work size. (%)	Deviation in Average Size of each tile from the Avg. size of the 10 test specimen. (%)	Limits as per IS - 15622 : 2017
1	-	600.59 x 600.58 x 19.93	0.10	0.00	<p>a) The Deviation in % of the average size of each tile (2 or 4 sides) from the work size (W) is UR = N > 15 cm ± 0.40. R = N > 15 cm ± 0.10.</p> <p>b) The Deviation in % of the average size of each tile (2 or 4 sides) from the average size of the 10 test specimen (20 or 40 sides) is UR = N > 15 cm ± 0.40. R = N > 15 cm ± 0.10</p>
2	-	600.58 x 600.60 x 19.95	0.10	0.00	
3	-	600.56 x 600.59 x 20.01	0.10	0.00	
4	-	600.57 x 600.59 x 19.87	0.10	0.00	
5	-	600.60 x 600.55 x 19.93	0.10	0.00	
6	-	600.59 x 600.58 x 19.97	0.10	0.00	
7	-	600.58 x 600.58 x 19.89	0.10	0.00	
8	-	600.59 x 600.57 x 20.07	0.10	0.00	
9	-	600.59 x 600.58 x 19.90	0.10	0.00	
10	-	600.57 x 600.68 x 19.89	0.10	0.01	

b) RECTANGULARITY, STRAIGHTNESS & SURFACE FLATNESS:

Sl.No	Deviation in Rectangularity (%)	Deviation in Straightness (%)	Deviation in Centre curvature (%)	Deviation in Edge curvature (%)	Deviation in Warp page (%)	Limits as per IS - 15622 : 2017
1	-0.07	-0.08	-0.13	-0.13	-0.09	<p>a) The maximum deviation from</p> <p>i) Straightness (%) UR = ± 0.20. R = ± 0.15</p> <p>ii) Rectangularity (%) UR = ± 0.30. R = ± 0.20.</p> <p>b) The Maximum Deviation from surface flatness, in (%): Centre curvature, Edge curvature and warp page is ± 0.50.</p>
2	-0.07	-0.09	-0.15	-0.12	-0.08	
3	-0.06	-0.09	-0.12	-0.10	-0.08	
4	-0.07	-0.09	-0.15	-0.11	-0.07	
5	-0.07	-0.09	-0.14	-0.11	-0.08	
6	-0.07	-0.09	-0.14	-0.10	-0.09	
7	-0.07	-0.08	-0.15	-0.13	-0.07	
8	-0.07	-0.09	-0.10	-0.12	-0.08	
9	-0.07	-0.09	-0.14	-0.13	-0.08	
10	-0.06	-0.09	-0.11	-0.12	-0.09	



**BUREAU
VERITAS**



NABL Accredited Lab

TEST REPORT

Test Order/Report No. BVIPL: TILES : 25941C/153/12/2017
Date of Receipt: 02.12.2017

Date : 18.12.2017
Page 2 of 3

2. HARDNESS: (PART-13)

Sl.no	Id mark*	Specimen Dimension (mm)	Moh's Scale Hardness No.	Limits as per IS - 15622 : 2017
1	-	600 x 600	8	Scratch Hardness of Surface (Moh's Scale) 5 Min.
2	-	600 x 600	8	
3	-	600 x 600	8	

3. MODULUS OF RUPTURE: (PART- 6)

Sl No	Id mark*	Specimen Dimension (mm)	MOR (N/mm ²)	Avg.MOR (N/mm ²)	Breaking Strength (N)	Avg. Breaking Strength (N)	Limits as per IS - 15622 : 2017
1	-	300 x 300	33.6	36.1	8297	8847	Modulus of Rupture (N/mm²) Average 35, individual minimum 32 Breaking Strength (N) < 7.5 mm thickness : 700 min. ≥ 7.5 mm thickness : 1300 min.
2	-	300 x 300	37.4		9119		
3	-	300 x 300	38.2		9288		
4	-	300 x 300	37.3		9292		
5	-	300 x 300	35.3		8647		
6	-	300 x 300	33.9		8357		
7	-	300 x 300	36.6		8929		

4. WATER ABSORPTION: (PART-2)

Sl. No	Id mark*	Specimen Dimension (mm)	Water Absorption (%)	Avg. Water Absorption (%)	Limits as per IS - 15622 : 2017
1	-	300 x 150	0.00	0.01	Average E < 0.08, individual maximum 0.10%
2	-	300 x 150	0.01		
3	-	300 x 150	0.02		
4	-	300 x 150	0.01		
5	-	300 x 150	0.01		

5. CRAZING RESISTANCE - (Glazed tile):

Sl.No	Description of test	Specimen size (mm)	No of samples	Result
1	Crazing Resistance	100 x 100	5	Crazing not Found



**BUREAU
VERITAS**



NABL Accredited Lab

TEST REPORT

Test Order/Report No. BVIPL: TILES : 25941C/153/12/2017
Date of Receipt: 02.12.2017

Date : 18.12.2017
Page 3 of 3

6. CHEMICAL RESISTANCE(Part 8):#

Sl. No	Description of Test	Results	Requirements
a	Resistance to staining of glazed tiles	CLASS I	CLASS 1,Min.
b	Resistance to household chemicals and swimming pool water cleansers except to cleansing agents containing hydrofluoric acid and its compounds-Glazed Tile	CLASS AA	CLASS AA, Min.
c	Resistance to acids & Alkalies (with the exception of hydrofluoric acid and its compounds)- Glazed Tile	CLASS AA	Required if agreed according to the chemical resistance class indicated by the manufacturer

* As furnished by the customer.

The test marked with an # are not accredited by NABL.

Remarks- The tested sample conform to IS - 15622:2017 (Group Bla) for the tested parameter.

UR = Un-rectified , **R** = Rectified , **N** = Represents the nominal dimension of tile.

- Note:
1. The results relate only to the items tested.
 2. Report shall not be reproduced except in full, without the written approval of the lab.
 3. Any correction invalidates this report.

For **BUREAU VERITAS (INDIA) PVT LTD.**

Construction Services Laboratory

Sandip Patil



Lab Incharge - Concrete
Authorised Signatory



Dinesh Gaikwad



Lab Incharge-Chemical
Authorised Signatory

CONC/W3732