



Ref: BVIPL: TILES-CERAMIC : 25941C/245/3/2014
Test order dated 25.03.2014

Date 23.04.2014
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H & R JOHNSON (INDIA)
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TEST REPORT ON MARBLE

Source of sample : Sample supplied by the customer.
Number of samples tested : 13 (Thirteen Only).
Customer's Reference : Letter dt.14.03.2014
Date of sample Received : 25.03.2014
Condition of sample : Satisfactory
Sample Details* : Snow Flakes MARBLE
Period of test : 27.03.2014 To 08.04.2014

1. DIMENSION AND SURFACE QUALITY: IS -13630 -2006 (RA 2012) (PART-1)

a) MEASUREMENT: Thickness

Sl. No	avg. Measured thickness (mm)	Deviation in Average Thickness of each tile from the work Thickness (%)	Deviation in Average Thickness of each tile from the Avg. Thickness of the 10 test specimen. (%)
1	20.09	0.45	1.86
2	20.04	0.18	1.58
3	19.98	-0.12	1.27
4	19.90	-0.50	0.89
5	19.56	-2.21	-0.84
6	19.89	-0.56	0.83
7	19.36	-3.21	-1.86
8	19.52	-2.40	-1.03
9	19.27	-3.65	-2.30
10	19.65	1.78	-0.40

b) RECTANGULARITY, STRAIGHTNESS & SURFACE FLATNESS : IS -13630 -2006 (RA 2012) (PART-1)

Sl. No	Deviation in Rectangularity (%)	Deviation in Centre curvature (%)	Deviation in Edge curvature (%)	Deviation in Warpage (%)
1	0.06	-0.01	-0.02	-0.04
2	0.08	-0.01	-0.02	-0.04
3	0.09	-0.02	-0.02	-0.03
4	0.08	-0.01	-0.02	-0.03
5	0.09	-0.01	-0.02	-0.03
6	0.09	-0.01	-0.02	-0.03
7	0.10	-0.01	-0.02	-0.03
8	0.11	-0.01	-0.02	-0.03
9	0.10	-0.01	-0.02	-0.02
10	0.09	-0.01	-0.03	-0.03



**BUREAU
VERITAS**

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2. HARDNESS: IS -13630 -2006 (RA 2012) (PART-13)

Sl. No	Specimen Dimension (mm)	Moh's Scale Hardness No.
1	300 x 300	5
2	300 x 300	5
3	300 x 300	5

3. FLEXURAL STRENGTH: ASTM-C99-87(Reapproved 1993) (Wet Condition)

Sl No	Specimen Dimension (mm)	MOR (N/mm ²)	Avg. MOR (N/mm ²)
1	203.2 x 101.60	24.25	27.12
2	203.2 x 101.60	23.90	
3	203.2 x 101.60	22.26	
4	203.2 x 101.60	31.92	
5	203.2 x 101.60	33.26	

3.1. FLEXURAL STRENGTH: ASTM-C99-87(Reapproved 1993) (Dry Condition)

Sl No	Specimen Dimension (mm)	MOR (N/mm ²)	Avg. MOR (N/mm ²)
1	203.2 x 101.60	26.76	26.23
2	203.2 x 101.60	23.04	
3	203.2 x 101.60	27.09	
4	203.2 x 101.60	25.44	
5	203.2 x 101.60	28.82	

4. WATER ABSORPTION & BULK SPECIFIC GRAVITY: ASTM C-97-96

Sl. No	Specimen Dimension (mm)	Average Water Absorption (%)	Bulk Specific Gravity
1	60 x 60 x20	0.00	2.63

* As furnished by the customer.

NOTE – Above Tests carried on provided working thickness.

- 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.**



Dinesh Burde
D Burde
Authorised Signatory



Sadal
Checked By

CONC/W429/4