GNS CERAMICS
EXCLUSIVELY WHOLESALE



ALTURA

THE ALTURA MARBLE COLLECTION DELIVERS THE TIMELESS APPEAL OF NATURAL MARBLE IN A PRACTICAL PORCELAIN FORMAT DESIGNED FOR MODERN AUSTRALIAN LIVING. WITH REFINED VEINING AND A BRIGHT WHITE BASE, ALTURA BRINGS LIGHT, MOVEMENT AND UNDERSTATED ELEGANCE TO ANY SPACE.

AVAILABLE IN BOTH MATT AND POLISHED FINISHES, THE COLLECTION ALLOWS YOU TO CREATE ANYTHING FROM A SOFT CONTEMPORARY AESTHETIC TO A SLEEK, HIGH-GLOSS STATEMENT INTERIOR.

FEATURES A CRISP WHITE BACKGROUND WITH FLOWING COOL GREY VEINING. THE BALANCED MOVEMENT MAKES IT IDEAL FOR CONTEMPORARY HOMES, PAIRING EFFORTLESSLY WITH BLACK FIXTURES, CHROME TAPWARE AND TIMBER ACCENTS.

OAKLEY WHITE



SHOWCASES A LUMINOUS WHITE BASE HIGHLIGHTED BY SOFT GOLD AND SUBTLE GREY VEINING. PERFECT FOR BATHROOMS, STATEMENT FLOORS OR FEATURE WALLS, IT COMPLEMENTS BRUSHED BRASS FITTINGS AND WARMER INTERIOR PALETTES.

IMPERIAL GOLD



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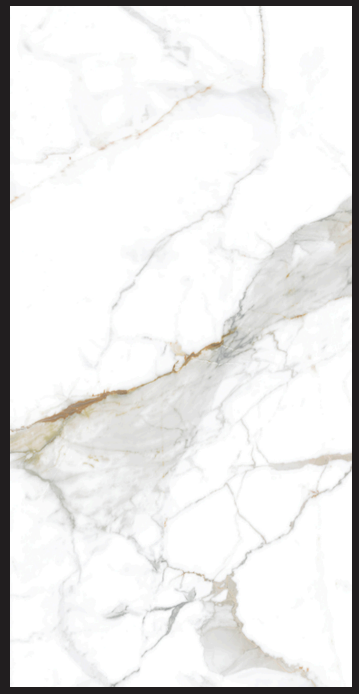


White





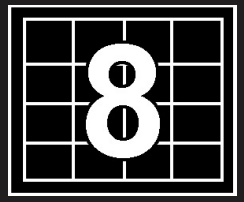
Gold



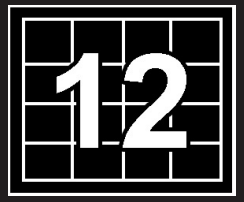
Matt
Polished
600x1200

V3
Variation

Rectified Edge



600x600 Gold



600x600 White



Polished



Matt

Matt
Polished
600x600

GNS Ceramics recommends that our retail shops pass on the following information to the installer and end-user.

Click or Scan for Installation Instructions

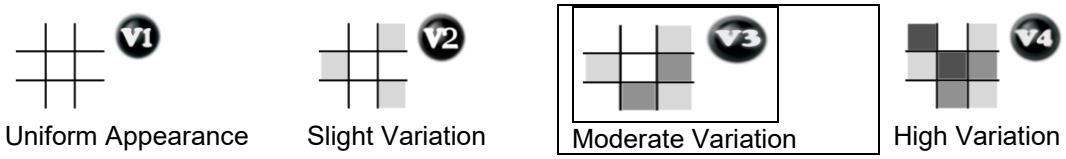
Ceramic tiles are only one component of a much larger building system. It is our experience that failure of any tiling system is very often the result of a combination of factors. For example; inappropriate design, type of substrate, surface preparation, temperature during installation, adhesives, incompatibility of products, product failure, environmental factors skill and knowledge of the installers etc; the latter being supplied or controlled by a variety of manufacturers and tradesmen. GNS Ceramics has no involvement in the design, selling and installation processes and once goods have been dispatched from our warehouse we have no control over where and how these products are used. As a result the project manager, and or the tiler are the only people in a position to ensure that all the components used in a project are compatible and that the product is installed in accordance with the Australian Building Code and the Australian Standards.

Installation Instructions for all types of tiles can be found in the GNS Ceramics Price List, and on our website. We suggest these are followed at all times.

Cleaning and Maintenance

Do not use abrasive cleaners and chemicals which could permanently scratch and damage the surface of the tile. For daily cleaning we recommend the use of a mild PH Neutral detergent. Should a more vigorous cleaning programme be required we recommend the use of a proprietary tile cleaner from a specialty tile supplier.

Colour & Pattern Variation Guide



Uniform Appearance | Slight Variation | Moderate Variation | High Variation

Slip Resistance

The best way to minimise the risk of slipping is through safe design principals. This involves a risk management approach which evaluates the likelihood and consequence of an incident to occur. Slip resistive flooring is only one of the design components to consider, other design features should also be considered, including awnings, airlocks, matting and a suitable cleaning regime to reduce the extent of contaminates. Visual aids, warning signs, handrails and lighting, along with the footwear to be worn, should also be considered.

All ceramic tiles can be slippery, particularly when wet. This includes tiles, commonly used in wet areas such as bathrooms. It is important that customers be aware of the potential danger of wet ceramic tiles and seek advice from the retailer as to the level of slip-resistance of any particular tile, and its suitability for the intended application. If there is any doubt, tiles should be tested for slip-resistance immediately after being laid, under the conditions that they will be subject to during use. While tiles may achieve an acceptable standard in a laboratory test, it is quite probable that the performance in-situ will be less than expected, due to installation methods, wear & tear, cleaning regimes and unforeseen circumstances. Test results should therefore to be seen as a relative guide to estimate the merits of one tile versus another and should be used in conjunction with the Australian Building Code and the relevant Australian Standards. Further information on slip resistance is provided in the Australian Standards HB198:2014 - An Introductory guide to the slip resistance of pedestrian surface materials.

There are many factors beyond the control of the supplier that can affect the level of slip-resistance of tiles, or contribute to the incidents of injury through slipping. Consequently, the laboratory test results presented here must not be viewed to mean that GNS Ceramics Pty Ltd, is providing any warranty, nor will accept any liability for personal injury or accidents arising from the selection or installation of tiles under any circumstances.

Classes of Use

The classification has taken into account the recommendations of the Australian Standards; however, they are given for general guidance only. They are valid for the given application under **NORMAL CONDITIONS** and should not be taken to provide accurate product specifications for specific requirements.

WARNING: Other standards and building code requirements may affect your selection of tiles.

Consideration should be given to the footwear, type of pedestrian traffic and cleaning methods expected. Floors should be adequately protected against soiling from following trades during installation; they should also be protected against scratching dirt at the entrances to building by interposing footwear cleaning devices. For example, mats, shoe scrapers, static devices, etc.

CLASS 2 - Floor coverings in areas that are walked on with soft-soled or normal footwear with, at the most, occasional small amounts of scratching dirt; For example, main bathrooms, bedrooms with the exception of those areas that experience heavy pedestrian traffic, i.e. work boots, stilettos, and outdoor shoes.

CLASS 3 - Floor coverings in areas that, with normal footwear, are walked on more often with small amounts of scratching dirt; for example, living areas, bedrooms, residential kitchens, laundries with internal access, halls and corridors. This does not apply to abnormal footwear; i.e. work boots and outdoor shoes.

HEXIQON LABORATORY™

TC-11712

Plot No. 8, Shayona Estate Part-2,
Bh. Silver Oak Engineering Collage,
Nr. AUDA Water Tank, Gota,
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Email : hexiqonlab@gmail.com
Mb.: +91 8487878021, +91 9879444222
CIN : U86905GJ2023PTC140980

Test Report

Test Report No.: HL/MT/240112007 | **ULR No.: TC1171224000000183F**

Issued To: ART TILE LLP | **Issue Date: 24-06-2025**

TEST REPORT OF TILE

Name of Agency	:	ART TILE LLP
Address	:	MORBI - JETPAR, OPP PLATINUM CERAMIC PVT LTD, NEAR NARMADA CANAL, AT SAPAR-MORBI-363642, GUJARAT, INDIA
Sample Name	:	**Pressed Ceramic Tiles (Glazed Vitrified Tiles)**
Make	:	ART TILE LLP
Sample Code	:	Not Mentioned
Sample Received on	:	12-06-2025 **Date of Start of Testing :** 12-06-2025
Analysis End On	:	24-06-2025

SAMPLE DETAILS

Type	:	Dry Pressed Ceramic Tiles water absorption (Ev ≤ 0.5 %)
Group	:	Bla (Annexure-G)
Nominal Size (N)	:	600 x 600 x 8.0 mm (Rectified)
Work Size	:	600 x 600 mm
Nature of Surface	:	Glazed (GL)
Quantity of sample	:	40 Pieces
Batch No./Lot No.	:	240107
Date of Manufacturing	:	07-06-2025
Design	:	
Indication of First Quality	:	Provided (Premium)
Country of Origin	:	India
Any Other Information	:	Declared Thickness 8.0 mm
Total Weight of Box	:	Provided (26.0 kg Approx per box)
Specification	:	**SASO-ISO 13006 : 2018(Ceramic tiles- Definitions, Classification, Characteristics and marking)**
Reference Standards	:	SASO-ISO: 10545 (Part - 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16) with Latest Edition.

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TEST REPORT OF TILE

S. No.	Name of Test	Reference Standards
1	Determination of Dimensions and Surface Quality	SASO-ISO 10545 (Part-2) - 2019
2	Determination of Water Absorption & Bulk Density	SASO-ISO 10545 (Part-3) - 2018
3	Determination of Modulus of Rupture and Breaking Strength	SASO-ISO 10545 (Part-4) - 2019
4	Determination of Impact Resistance by Measurement of Coefficient of Restitution	SASO-ISO 10545 (Part-5) - 2006
5	Determination of Resistance to Surface Abrasion	SASO-ISO 10545 (Part-7) - 2007
6	Determination of Linear Thermal Expansion	SASO-ISO 10545 (Part-8) - 2016
7	Determination of Resistance to Thermal Shock	SASO-ISO 10545 (Part-9) - 2016
8	Determination of Moisture Expansion	SASO-ISO 10545 (Part-10) - 2022
9	Determination of Crazing Resistance	SASO-ISO 10545 (Part-11) - 2007
10	Determination of Frost Resistance	SASO-ISO 10545 (Part-12) - 2007
11	Determination of Chemical Resistance	SASO-ISO 10545 (Part-13) - 2018
12	Determination of Resistance to Stains	SASO-ISO 10545 (Part-14) - 2016
13	Determination of Lead and Cadmium	SASO-ISO 10545 (Part-15) - 2022
14	Determination of Small Colour Differences	SASO-ISO 10545 (Part-16) - 2014

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A. Determination of Dimensions and Surface Quality **Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019**

(a) Dimensions

(i) Measurements of Average Size Lengthwise (Measurement of Length)

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	10 Whole Tiles					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Vernier Caliper					

Average Size Lengthwise	**Number of Specimens**									
Parameters	1	2	3	4	5	6	7	8	9	10
Individual Size (mm) side 1 Lengthwise	599.68	599.84	599.80	599.88	599.84	599.74	599.76	599.80	599.78	599.86
Individual Size (mm) side 2 Lengthwise	599.72	599.78	599.70	599.82	599.90	599.82	599.66	599.78	599.84	599.80
Average Size of each Specimen(mm) Both Sides Lengthwise	599.70	599.81	599.75	599.85	599.87	599.78	599.71	599.79	599.81	599.83
Average Size of 10 specimens (mm) Lengthwise	**599.790 mm**									
Deviation of the average size of each specimen from the work size (mm) Lengthwise	-0.300	-0.190	-0.250	-0.150	-0.130	-0.220	-0.290	-0.210	-0.190	-0.170
Deviation of the average size for the average of 10 specimens (mm) lengthwise	**-0.210 mm**					Required Value: ± 1.0 mm				
Deviation of the average size of each specimen from the work size (%) Lengthwise	-0.050	-0.032	-0.042	-0.025	-0.022	-0.037	-0.048	-0.035	-0.032	-0.028
% Deviation of the average size from the average of 10 Specimens Lengthwise	**-0.035 %**					Required Value: ± 0.3 %				
Deviation of the average size of each specimen from the average of 10 specimen (mm) Lengthwise	-0.090	0.020	-0.040	0.060	0.080	-0.010	-0.080	0.000	0.020	0.040
Deviation of the average size of each specimne from average of 10 specimens (%) Lengthwise	-0.015	0.003	-0.007	0.010	0.013	-0.002	-0.013	0.000	0.003	0.007

Remark: Conforms

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A. Determination of Dimensions and Surface Quality **Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019**

(a) Dimensions

(ii) Measurements of Average Size Widthwise (Measurements of Width)

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	10 Whole Tiles					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Vernier Caliper					

Average Size Widthwise Parameters	**Number of Specimens** 1	2	3	4	5	6	7	8	9	10
Individual Size (mm) side 1 Widthwise	599.96	599.94	599.78	599.84	599.76	599.96	599.88	599.90	599.94	599.82
Individual Size (mm) side 2 Widthwise	599.92	599.88	599.82	599.90	599.82	599.92	599.78	599.84	599.88	599.76
Average Size of each Specimen(mm) Both Sides Widthwise	599.940	599.910	599.800	599.870	599.790	599.940	599.830	599.870	599.910	599.790
Average Size of 10 specimens (mm) Widthwise	**599.865 mm**									
Deviation of the average size of each specimen from the work size (mm) Widthwise	-0.060	-0.090	-0.200	-0.130	-0.210	-0.060	-0.170	-0.130	-0.090	-0.210
Deviation of the average size for the average of 10 specimens (mm) Widthwise	**-0.135 mm**					Required Value: ± 1.0 mm				
Deviation of the average size of each specimen from the work size (%) Widthwise	-0.010	-0.015	-0.033	-0.022	-0.035	-0.010	-0.028	-0.022	-0.015	-0.035
% Deviation of the average size from the average of 10 Specimens Widthwise	**-0.022 %**					Required Value: ± 0.3 %				
Deviation of the average size of each specimen from the average of 10 specimen (mm) Widthwise	0.075	0.045	-0.065	0.005	-0.075	0.075	-0.035	0.005	0.045	-0.075
Deviation of the average size of each specimne from average of 10 specimens (%) Widthwise	0.013	0.008	-0.011	0.001	-0.013	0.013	-0.006	0.001	0.008	-0.013

Remark: Conforms

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A. Determination of Dimensions and Surface Quality **Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019**

(a) Dimensions

(iii) Measurements of Thickness

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	10 Whole Tiles					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Micrometer					

Thickness Parameters	Number of Specimens									
	1	2	3	4	5	6	7	8	9	10
Thickness (mm) Position 1	7.96	8.06	8.07	7.94	8.08	8.05	8.00	7.97	7.96	8.07
Thickness (mm) Position 2	8.07	8.01	7.93	7.93	8.05	7.89	8.06	7.90	8.02	8.10
Thickness (mm) Position 3	7.94	7.98	7.98	8.04	7.90	7.89	7.91	8.08	7.93	7.89
Thickness (mm) Position 4	8.06	8.04	7.93	7.91	7.92	7.89	8.00	8.06	8.00	8.01
Average Tickness (mm)	8.008	8.023	7.978	7.955	7.988	7.930	7.993	8.003	7.978	8.018
Average Thickness of 10 specimens (mm) all positions	**7.987 mm**									
Deviation of the average thickness of each tile from the work size thickness(mm)	0.008	0.023	-0.023	-0.045	-0.012	-0.070	-0.007	0.003	-0.023	0.018
Deviation of the average thickness from the average of 10 specimens (mm)	**-0.013 mm**					Required Value: ± 0.5 mm				
Deviation of the average thickness of each specimen from the work size (%)	0.094	0.281	-0.281	-0.562	-0.156	-0.875	-0.094	0.031	-0.281	0.219
% Deviation of the average thickness from the average of 10 Specimens	**-0.162 %**					Required Value: ± 5.0 %				

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A. Determination of Dimensions and Surface Quality **Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019**

(a) Dimensions

(iv) Measurements of Straightness of Sides

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	10 Whole Tiles					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Steel Square, Dial gauge, Steel Plate with Straight flat sides					

Straightness of Sides	**Number of Specimens**									
(a) Lengthwise	1	2	3	4	5	6	7	8	9	10
Straightness of sides (mm) side 1	-0.15	0.09	-0.11	-0.01	0.21	0.05	-0.12	-0.12	-0.16	-0.06
Straightness of sides (mm) side 2	-0.02	-0.14	-0.01	0.20	0.21	-0.04	0.13	-0.07	-0.04	-0.04
Maximum deviation of Straightness of both sides (mm)	**0.21 mm** **-0.16 mm**				Required Value: ± 0.8 mm					
Maximum deviation from straightness related to the corresponding work size (%)	**0.035 %** **-0.027 %**				Required Value: ± 0.3 %					

(b) Widthwise	1	2	3	4	5	6	7	8	9	10
Straightness of sides (mm) side 1	-0.10	-0.05	0.19	0.05	-0.09	0.10	-0.04	0.05	-0.05	0.14
Straightness of sides (mm) side 2	0.10	0.13	0.14	0.19	-0.05	-0.10	0.17	0.16	0.11	-0.03
Maximum deviation of Straightness of both sides (mm)	**0.19 mm** **-0.10 mm**				Required Value: ± 0.8 mm					
Maximum deviation from straightness related to the corresponding work size (%)	**0.032 %** **-0.017 %**				Required Value: ± 0.3 %					

Remark: Conforms

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A. Determination of Dimensions and Surface Quality **Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019**

(a) Dimensions

(v) Measurements of Rectangularity

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	10 Whole Tiles					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Steel Square, Dial gauge, Steel Plate with Straight flat sides					

Rectangularity of Sides	**Number of Specimens**									
(a) Lengthwise	1	2	3	4	5	6	7	8	9	10
Rectangularity (mm) side 1	0.13	0.10	0.15	-0.18	-0.13	-0.15	0.10	-0.11	-0.14	-0.12
Rectangularity (mm) side 1	-0.26	-0.16	0.14	-0.04	0.03	0.05	-0.23	-0.12	0.03	-0.17

Maximum deviation of Rectangularity of both sides (mm): **0.15 mm**, **-0.26 mm** — Required Value: ± 1.5 mm

Maximum deviation from Rectangularity related to the corresponding work size (%): **0.025 %**, **-0.043 %** — Required Value: ± 0.3 %

(b) Widthwise	1	2	3	4	5	6	7	8	9	10
Rectangularity (mm) side 1	0.29	0.24	-0.41	-0.41	0.19	0.10	-0.02	0.21	0.01	0.14
Rectangularity (mm) side 2	0.18	-0.16	0.17	0.11	0.11	-0.02	0.27	0.13	-0.05	-0.23

Maximum deviation of Rectangularity of both sides (mm): **0.29 mm**, **-0.41 mm** — Required Value: ± 1.5 mm

Maximum deviation from Rectangularity related to the corresponding work size (%): **0.048 %**, **-0.068 %** — Required Value: ± 0.3 %

Remark: Conforms

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A. Determination of Dimensions and Surface Quality **Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019**

(a) Dimensions

(vi) Measurements of Surface Flatness (Curvature and Warpage)

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	10 Whole Tiles					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Surface Flatness Measurement Apparatus, Dial gauge, Glass Calibration Plate					

A. Centre Curvature:

	Number of Specimens									
Centre Curvature	1	2	3	4	5	6	7	8	9	10
Centre curvature (mm) Diagonal 1	-0.38	-0.54	-0.28	0.28	-0.80	-0.55	-0.48	-0.70	-0.27	-0.27
Centre curvature (mm) Diagonal 2	-0.76	-0.73	-0.24	0.07	0.35	-0.11	-0.23	-0.22	-0.43	-0.24

Maximum centre curvature related to the diagonal work size (mm)	**0.35 mm** **-0.80 mm**	Required Value: ± 1.8 mm
Maximum centre curvature related to the diagonal calculated from work size (%)	**0.041 %** **-0.094 %**	Required Value: ± 0.4 %

Remark: Conforms

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CIN : U86905GJ2023PTC140980

Test Report

Test Report No.: HL/MT/240112007 ULR No.: TC1171224000000183F

Issued To: ART TILE LLP Issue Date: 24-06-2025

A. Determination of Dimensions and Surface Quality Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019

(a) Dimensions

(vi) Measurements of Surface Flatness (Curvature and Warpage)

a) Description of tiles :	Pressed Ceramic Tiles						
b) Number of Specimen:	10 Whole Tiles						
c) Nominal Size:	600	x	600	x	8.0	mm	
d) Work Size:	600	x	600	x	8.0	mm	
e) Thickness:	8.0	mm					
f) Instruments Used:	Surface Flatness Measurement Apparatus, Dial gauge, Glass Calibration Plate						

B. Edge Curvature of Length

(a) Lengthwise	1	2	3	4	5	6	7	8	9	10
Edge curvature(mm) side 1	0.37	0.29	0.18	-0.18	0.19	0.22	0.33	0.07	0.06	0.12
Edge curvature(mm) side 2	-0.18	0.27	0.14	0.18	-0.05	0.40	-0.21	-0.06	-0.09	0.19

Maximum edge curvature related to the corresponding work size (mm)	**0.40 mm** **-0.21 mm**	Required Value: ± 1.8 mm
Maximum edge curvature related to the corresponding work size (%)	**0.067 %** **-0.035 %**	Required Value: ± 0.4 %

C. Edge Curvature of Width

(b) Widthwise	1	2	3	4	5	6	7	8	9	10
Edge curvature(mm) side 1	0.31	-0.28	0.03	-0.12	0.07	0.10	0.06	-0.03	0.05	0.13
Edge curvature(mm) side 2	0.39	0.20	-0.03	0.23	0.26	-0.05	-0.12	-0.16	-0.21	0.42

Maximum edge curvature related to the corresponding work size (mm)	**0.42 mm** **-0.28 mm**	Required Value: ± 1.8 mm
Maximum edge curvature related to the corresponding work size (%)	**0.070 %** **-0.047 %**	Required Value: ± 0.4 %

Remark: Conforms

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(a) Dimensions

(vi) Measurements of Surface Flatness (Curvature and Warpage)

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	10 Whole Tiles					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Surface Flatness Measurement Apparatus, Dial gauge, Glass Calibration Plate					

D. Warpage

(a) Lengthwise	1	2	3	4	5	6	7	8	9	10
Warpage (mm) side 1	-0.57	-0.73	-0.24	-0.28	-0.60	-0.27	0.00	0.23	0.16	0.35
Warpage (mm) side 2	0.27	-0.73	-0.05	0.14	0.20	0.31	0.14	-0.48	-0.64	-0.54

Maximum warpage related to the diagonal from work size (mm) **0.35 mm** Required Value: ± 1.8 mm
-0.73 mm

Maximum warpage related to the diagonal from work size (%) **0.041 %** Required Value: ± 0.4 %
-0.086 %

E. Warpage

(b) Widthwise	1	2	3	4	5	6	7	8	9	10
Warpage (mm) side 1	0.45	-0.49	-0.07	-0.48	-0.35	-0.46	-0.32	0.42	0.11	-0.27
Warpage (mm) side 2	-0.39	0.22	-0.01	-0.30	0.05	-0.21	-0.09	-0.18	0.01	0.31

Maximum warpage related to the diagonal from work size (mm) **0.45 mm** Required Value: ± 1.8 mm
-0.49 mm

Maximum warpage related to the diagonal from work size (%) **0.053 %** Required Value: ± 0.4 %
-0.058 %

Remark: Conforms

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Test Report

Test Report No.: HL/MT/240112007 **ULR No.:** TC1171224000000183F

Issued To: ART TILE LLP **Issue Date:** 24-06-2025

A. Determination of Dimensions and Surface Quality **Reference Standard : SASO-ISO: 10545 (Part - 2) - 2019**

(vii) Measurements of Surface Quality

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 20 Whole Tiles
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Fluorescent Lighting of Colour, Temp., Meter Rule, Light

Number of Specimen	Cracks	Crazing	Dry Spot	Unevenness	Pin Hole	Glaze Devitrification	Specks and Spots	Under glaze fault	Decorating fault	Chip	Blister	Rough Edge	Polishing defect
1	C	C	C	C	C	C	C	C	C	C	C	C	C
2	C	C	C	C	C	C	C	C	C	C	C	C	C
3	C	C	C	C	C	C	C	C	C	C	C	C	C
4	C	C	C	C	C	C	C	C	C	C	C	C	C
5	C	C	C	C	C	C	C	C	C	C	C	C	C
6	C	C	C	C	C	C	C	C	C	C	C	C	C
7	C	C	C	C	C	C	C	C	C	C	C	C	C
8	C	C	C	C	C	C	C	C	C	C	C	C	C
9	C	C	C	C	C	C	C	C	C	C	C	C	C
10	C	C	C	C	C	C	C	C	C	C	C	C	C
11	C	C	C	C	C	C	C	C	C	C	C	C	C
12	C	C	C	C	C	C	C	C	C	C	C	C	C
13	C	C	C	C	C	C	C	C	C	C	C	C	C
14	C	C	C	C	C	C	C	C	C	C	C	C	C
15	C	C	C	C	C	C	C	C	C	C	C	C	C
16	C	C	C	C	C	C	C	C	C	C	C	C	C
17	C	C	C	C	C	C	C	C	C	C	C	C	C
18	C	C	C	C	C	C	C	C	C	C	C	C	C
19	C	C	C	C	C	C	C	C	C	C	C	C	C
20	C	C	C	C	C	C	C	C	C	C	C	C	C

Remark: - C = Conform the Requirement

Procedure: Tile have been Placed in the observation table under 275± 25 lux light by 6000 K lighting source and observed for the surface defects and Intentional effects-

Observation: No cracks, crazing, dry spots, unevenness, pin hole, glaze devitrification, specks or spots, underglaze fault, polishing defects, polishing effects, decorating fault, chip, blister, rough edge, welt, etc. have been Observed. Also In order to judge whether there is a defect or an intentional decorative effect, the intentionality and aesthetics of the effect have been assessed, including a review of the manufacturer documentation. Cracks, chipped edges and chipped corners have not been detected. 100 % Tile is free from Visual Defects.

Required Value: Tiles should not have Above mentioned Defects in 95 % Tiles Observed

Remark: Conforms

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B. Physical Property

(i) Water Absorption **Reference Standard : SASO-ISO: 10545 (Part - 3) - 2018**

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 5 Whole Tiles
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Drying Oven, Water Bath, Balance, Wire loop, Basket, Vacuum Chamber
g) Test Specimen Dimension:

Specimen Number	Dimension Before Test Specimen Preparation (mm)	Dimension After Test Specimen Preparation (mm)
1	600 x 600 x 8.0 mm	200 x 200 x 8.0 mm
2	600 x 600 x 8.0 mm	200 x 200 x 8.0 mm
3	600 x 600 x 8.0 mm	200 x 200 x 8.0 mm
4	600 x 600 x 8.0 mm	200 x 200 x 8.0 mm
5	600 x 600 x 8.0 mm	200 x 200 x 8.0 mm

Specimen Number	Mass of the Dry Sample (gm) (M1)	Mass of the Wet Sample (gm) (M2)	Water absorption of Individual Specimen (%) (M2-M1) x 100/M1
1	726.74	726.86	0.0165
2	734.20	734.36	0.0218
3	721.95	722.09	0.0194
4	730.42	730.60	0.0246
5	737.56	737.72	0.0217

Average Water Absorption of the all specimens tested in %	**0.0208 %**	Required Value Max. 0.5 %
Individual Max. Value of Water Absorption of the Specimen in %	**0.0246 %**	Required Value Max. 0.6 %

Remark: Conforms

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B. Physical Property

(ii) Modulus of Rupture **Reference Standard : SASO-ISO: 10545 (Part - 4) - 2019**

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 7 Whole Tiles
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Drying Oven, MOR Apparatus, Pressure gauge, Two Cylindrical Support Rods, Central Cylindrical Rod
g) Diameter of Rods (d): 20 mm
h) Thickness of Rubber(t): 5.0 mm
i) Overlap of tile beyond the edge supports(l1) : 10 mm
j) Span between the Support Rods (l2) : 580 mm

Specimen Number	Breaking Load (Newton) F	Span between the support rods (mm) l_2	Width of the test Specimen (mm) b	Minimum thickness of the test specimen measured after the along the broken edge (mm) h	Modulus of Rupture of Individual Specimen (N/mm²) $3Fl_2/2bh^2$
1	1478.0	580	600	7.63	36.81
2	1462.5	580	600	7.60	36.71
3	1513.5	580	600	7.67	37.30
4	1492.0	580	600	7.59	37.55
5	1504.5	580	600	7.65	37.28
6	1525.0	580	600	7.57	38.59
7	1482.5	580	600	7.64	36.83

Average Breaking Load, N **1494.00 Newton**
Average Modulus of Rupture, N/mm² **37.30 N/mm2** Required Value: 35 N/mm²
Individual Minimum Modulus of Rupture, N/mm² **36.71 N/mm2** Required Value: 32 N/mm²
Remark: Conforms

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B. Physical Property

(iii) Breaking Strength **Reference Standard : SASO-ISO: 10545 (Part - 4) - 2019**

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 7 Whole Tiles
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Drying Oven, MOR Apparatus, Pressure gauge, Two Cylindrical Support Rods, Central Cylindrical Rod
g) Diameter of Rods (d): 20 mm
h) Thickness of Rubber(t): 5.0 mm
i) Overlap of tile beyond the edge supports(l1) : 10 mm
j) Span between the Support Rods (l2) : 580 mm

Specimen Number	Breaking Load (Newton) F	Span between the support rods (mm) l_2	Width of the test Specimen (mm) b	Breaking Strength of Individual Specimen (N) Fl_2/b
1	1478.0	580	600	1428.73
2	1462.5	580	600	1413.75
3	1513.5	580	600	1463.05
4	1492.0	580	600	1442.27
5	1504.5	580	600	1454.35
6	1525.0	580	600	1474.17
7	1482.5	580	600	1433.08

Average Breaking Load, N **1494.00 Newton**
Average Breaking Strength, N **1444.20 Newton** Required Value: Min 1300 Newton
Remark: Conforms

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B. Physical Property

(iv) Determination of Impact Resistance by measurement of coefficient of restitution

Reference Standard : SASO-ISO: 10545 (Part - 5) - 2006

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 5 Test Specimen
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Ball Release Apparatus, Chrome Steel Ball (19±0.05 dia), Electronic Timing Device
g) Test Specimen Size: 100 x 100 mm

Specimen Number	Dropping height of the ball (h1) mm	Indentation or Cracking	Coefficient of restitution of Specimen
1	1000	No Indentation or Cracking	0.778
2	1000	No Indentation or Cracking	0.784
3	1000	No Indentation or Cracking	0.793
4	1000	No Indentation or Cracking	0.775
5	1000	No Indentation or Cracking	0.790

Average Coefficient of Restitution of the all specimens tested 0.784 Required Value : Min 0.55

Any indentation or Cracking in the Test Specimen No Indentation or Cracking Observed in all the test specimen tested

Remark: Conforms

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B. Physical Property

(v) Determination of Resistance to surface abrasion for glazed tiles

Reference Standard : SASO-ISO: 10545 (Part - 7) - 2007

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 11 specimen of 100 x 100 mm
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Abrasion Apparatus, Drying Oven, Balance, Load, Abrassive Powder
g) Preparation of Test Specimen: The Specimen Cut through cutting tool to Size of 100 x 100 mm further the glazed surface of each Specimen is Clean and dry before the test

Specimen Number	Abrasion stage at Revolutions	Failure Occur	Class of stain resistance for tiles of Abrasion	Average Class of stain resistance for tiles of Abrasion
1	100	No	NA	
2	150	No	NA	
3	600	No	NA	
4	750	Yes	3	3
5	1500	NA	NA	
6	2100	NA	NA	
7	6000	NA	NA	
8	12000	NA	NA	

Resistance to surface abrasion of glazed tiles intended for use on floors **Class 3, Failure occurred at 750 Revolutions** Required Vale: NA

Remark: Conforms

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B. Physical Property

(vi) Determination of Linear Thermal Expansion

Reference Standard : SASO-ISO: 10545 (Part - 8) - 2016

a) Description of tiles :	Pressed Ceramic Tiles					
b) Number of Specimen:	2 specimen of 25 x 10 mm					
c) Nominal Size:	600	x	600	x	8.0	mm
d) Work Size:	600	x	600	x	8.0	mm
e) Thickness:	8.0	mm				
f) Instruments Used:	Thermal Expansion Apparatus, Vernier Calipers, Drying Oven, Desiccator					
g) Preparation of Test Specimen:	Cut Two test specimen at right angle from the central portion of one tile to length of 25 mm. The ends of the test specimen grounded flat and parallel.					

Coefficient of Linear Thermal Expansion

Test Parameters	Length of Test Specimen at Ambient Temperature	Ambient Temperature	Length Increase at 100^{0}C in mm	Required	Results
a. Coefficient of linear thermal expansion, ambient to 100^{0}C, Specimen 1	25.38	24.8	0.005	NA	**2.62 x 10^{-6}**
b. Coefficient of linear thermal expansion, ambient to 100^{0}C, Specimen 2	25.20	25.6	0.005	NA	**2.67 x 10^{-6}**
Average Coefficient of linear thermal expansion, ambient to 100^{0}C	**2.64 x 10^{-6}**			NA	

Remark: Conforms

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B. Physical Property

(vii) Determination of Resistance to Thermal Shock

Reference Standard : SASO-ISO: 10545 (Part - 9) - 2016

a) Description of tiles : Pressed Ceramic Tiles

b) Number of Specimen: 5 Whole Tiles

c) Nominal Size: 600 x 600 x 8.0 mm

d) Work Size: 600 x 600 x 8.0 mm

e) Thickness: 8.0 mm

f) Instruments Used: Low Temperature Bath & Oven

g) Temperature Cycle: Specimen put 15 minutes at 15°C, immediately transfer the Test Specimen to the oven maintained at 150°C until a uniform temperature is achieved, then immediately transfer them back to the 15°C, repeat this cycle 10 times.

h) Type of test Performed: Test With Immersion

i) Water Absorption Coefficient: 0.0208 %

Specimen Number	Visual defect examine before the test					Visual defect examine after the test				
	Cracks (Naked eye)	Crazing (Naked eye)	Dryspot (Naked eye)	Using Methylene Blue Staining (Naked eye)		Cracks (Naked eye)	Crazing (Naked eye)	Dryspot (Naked eye)	Using Methylene Blue Staining (Naked eye)	
1	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
2	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
3	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
4	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
5	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects

Remarks and Observation: No visual defects like Crack, Crazing, Dry Spots in all the five test specimen.

Remark: Conforms

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B. Physical Property

(viii) Determination of Moisture Expansion

Reference Standard : SASO-ISO: 10545 (Part - 10) - 2022

a) Description of tiles : Pressed Ceramic Tiles

b) Number of Specimen: 5 specimen of 100 x 35 mm

c) Nominal Size: 600 x 600 x 8.0 mm

d) Work Size: 600 x 600 x 8.0 mm

e) Thickness: 8.0 mm

f) Instruments Used: Measuring Frame, Furnace, Vernier Calipers, Invar

Specimen Number	Length of Specimen after re-firing (mm)		Length of Specimen after treatment in boiling water (mm)		Moisture Expansion of each test Specimen (mm/m)
	Initial Length (mm)	Length after 3 h from the initial measurement	Length After 1 h removal from the boiling	Length after 3 h from the first measurement	
1	100.312	100.312	100.314	100.313	0.00997
2	100.287	100.287	100.289	100.288	0.00997
3	100.184	100.184	100.186	100.185	0.00998
4	100.239	100.239	100.241	100.240	0.00998
5	100.262	100.262	100.264	100.263	0.00997
			Average Moisture Expansion (mm/m)		0.00997

Maximum Value of Moisture Expansion (mm/m) 0.00998 **Required Value** **Max. 0.6 mm/m**

Remark: Conforms

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B. Physical Property

(ix) Determination of Crazing Resistance for glazed tiles

Reference Standard : SASO-ISO: 10545 (Part - 11) - 2007

a) Description of tiles : Pressed Ceramic Tiles

b) Number of Specimen: 5 Whole Tiles

c) Nominal Size: 600.00 x 600 x 8.0 mm

d) Work Size: 600 x 600 x 8.0 mm

e) Thickness: 8.0 mm

f) Instruments Used: Autoclave (Pressure 500±20 kPa, Steam Temperature 159±1°C)

Specimen Number	Examine the test Specimen for Crazing	Test Condition for the Specimen
1	No Crazing	Kept in Autoclave at Pressure 500±20 kPa, Steam Temperature 159±1°C
2	No Crazing	
3	No Crazing	
4	No Crazing	
5	No Crazing	

Remark: No test specimen shows any sign of Crazing after performing the test.

Remark: Conforms

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CIN : U86905GJ2023PTC140980

Test Report

Test Report No.: HL/MT/240112007 ULR No.: TC1171224000000183F

Issued To: ART TILE LLP Issue Date: 24-06-2025

B. Physical Property

(x) Determination of Frost Resistance

Reference Standard : SASO-ISO: 10545 (Part - 12) - 2007

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 10 Whole Tiles
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Drying Oven, Balance, Vacuum Pump, Freezer, Low Tem. Bath
g) Initial Water Absorption (E1)-

Specimen Number	Mass of the Dry Sample (gm) (M1)	Mass of the Wet Sample (gm) (M2)	Water absorption of Individual Specimen (%) (M2-M1) x 100/M1
1	6422.1	6423.6	0.0234
2	6456.3	6457.7	0.0217
3	6440.2	6441.8	0.0248
4	6409.5	6411.2	0.0265
5	6470.8	6471.9	0.0170
6	6439.1	6441.2	0.0326
7	6416.2	6417.6	0.0218
8	6445.3	6446.9	0.0248
9	6461.8	6463.3	0.0232
10	6432.2	6433.9	0.0264
		Average water absorption E_1 (%)	**0.0242**

h) Final Water Absorption (E2)-

Specimen Number	Mass of each wet Sample after the test (gm) (M3)	Mass of each dry Sample after the test (gm) (M4)	Water absorption of Individual Specimen (%) (M3-M4) x 100/M4
1	6422.2	6420.4	0.0280
2	6456.8	6455.6	0.0186
3	6440.6	6439.1	0.0233
4	6410.6	6408.7	0.0296
5	6470.7	6469.6	0.0170
6	6440.0	6438.7	0.0202
7	6416.9	6415.5	0.0218
8	6446.2	6444.8	0.0217
9	6462.4	6460.3	0.0325
10	6432.7	6431.7	0.0155
		Average water absorption E2 (%)	**0.0228**

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Specimen Number	Visual defect examine before the test					Visual defect examine after the test				
	Cracks	Crazing	Dryspot	Using Methylene Blue Staining		Cracks	Crazing	Dryspot	Using Methylene Blue Staining	
1	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
2	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
3	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
4	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
5	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
6	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
7	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
8	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
9	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects
10	Satisfactory	Satisfactory	Satisfactory	Satisfactory	Satisfactory	No Defects	No Defects	No Defects	No Defects	No Defects

Remark: All the test specimen having no visual defect after 100 cycles freeze thaw test

Remark: Conforms

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(xi) Small Colour Differences

Reference Standard : SASO-ISO: 10545 (Part - 16) - 2014

a) Description of tiles : Pressed Ceramic Tiles

b) Number of Specimen: 5 Whole Tiles

c) Nominal Size: 600 x 600 x 8.0 mm

d) Work Size: 600 x 600 x 8.0 mm

e) Thickness: 8.0 mm

f) Instruments Used: Reflectance Spectrophotometer

Observation No.	1	2	3	4	5
CIELAB colour difference Value ΔL*	-0.3	0.2	-0.2	-0.2	0.3
CIELAB colour difference Value ΔC*ab	-0.088	-0.263	-0.277	-0.088	0.121
CIELAB colour difference Value ΔH*ab	0.10	0.30	0.30	0.10	0.10
Agreed-on Cf Tolerances	0.75				
Ratio of lightness to chroma	1.5:1				
Observation Value ΔE	0.374	0.539	0.469	0.300	0.436

Average Value of colour Difference ΔE **0.424** Required Value: < 0.75

Remark: Conforms

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C. Chemical Property

(i) Determination of Chemical Resistance

Reference Standard : SASO-ISO: 10545 (Part - 13) - 2018

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 5 Whole Tiles, Three Specimens for each Chemical
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Vessel with lid, Cylinder, Oven, Balance, Electric Lamp
g) Test Solution Used: Ammonium Chloride Solution, Sodium hypochlorite solution, HCl Solution (3%), Citric acid solution (100 g/L), Potassium hydroxide solution(30g/L) HCl Solution (18%), Lactic acid solution (5%), Potassium hydroxide solution(100g/L)
h) Procedure followed: Contact on Proper Surface

a. House hold chemical Resistance:

Specimen Number	Characteristic/ Test Parameter	Requirements	Test Results	Remark
1	Ammonium Chloride solution 100 gm/L	Min. class B(V)	**Class-A(V)** No visual change observed after 24h, Pencil lines removed with wet wiping	Conforms
2		Min. class B(V)	**Class-A(V)** No visual change observed after 24h, Pencil lines removed with wet wiping	Conforms
3		Min. class B(V)	**Class-A(V)** No visual change observed after 24h, Pencil lines removed with wet wiping	Conforms

b. Swimming Pool Salt:

Specimen Number	Characteristic/ Test	Requirements	Test Results	Remark
1	Sodium Hypochlorite Solution 20mg/l	Min. class B(V)	**Class-A(V)** No visual change observed after 24h, Pencil lines removed with wet wiping	Conforms
2		Min. class B(V)	**Class-A(V)** No visual change observed after 24h, Pencil lines removed with wet wiping	Conforms
3		Min. class B(V)	**Class-A(V)** No visual change observed after 24h, Pencil lines removed with wet wiping	Conforms

*Note : "(V)" represents normal classification

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Resistance to acid & alkalies

c. Low Concentration (L):

Specimen Number	Characteristic/ Test	Requirements	Test Results	Remark
1		Min Class LB(V)	**Class-LA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with wet wiping	Conforms
2	i) Hydrochloric Acid solution 3% (v/v)	Min Class LB(V)	**Class-LA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with wet wiping	Conforms
3		Min Class LB(V)	**Class-LA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with wet wiping	Conforms
1		Min Class LB(V)	**Class- LA(V)** No visual changes observed after immersion for 24h, pencil lines removed with wet wiping	Conforms
2	ii) Citric acid Solution 100 gm/l	Min Class LB(V)	**Class- LA(V)** No visual changes observed after immersion for 24h, pencil lines removed with wet wiping	Conforms
3		Min Class LB(V)	**Class- LA(V)** No visual changes observed after immersion for 24h, pencil lines removed with wet wiping	Conforms
1		Min Class LB(V)	**Class- LA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with wet wiping	Conforms
2	iii) Potassium Hydroxide Solution 30gm/l	Min Class LB(V)	**Class- LA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with wet wiping	Conforms
3		Min Class LB(V)	**Class- LA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with wet wiping	Conforms

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Resistance to acid & alkalies

d. High Concentration (H):

Specimen Number	Characteristic/ Test	Requirements	Test Results	Remark
1		Min Class HB(V)	**Class-HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
2	i) Hydrochloric Acid Solution 18% (v/v)	Min Class HB(V)	**Class-HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
3		Min Class HB(V)	**Class-HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
1		Min Class HB(V)	**Class- HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
2	ii) Lactic Acid Solution 5% (v/v)	Min Class HB(V)	**Class- HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
3		Min Class HB(V)	**Class- HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
1		Min Class HB(V)	**Class- HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
2	iii) Potassium Hydroxide Solution 100gm/l	Min Class HB(V)	**Class- HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms
3		Min Class HB(V)	**Class- HA(V)** No visual changes observed after immersion for 96 h, pencil lines removed with soft wet cloth	Conforms

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C. Chemical Property

(ii) Determination of Resistance to stains

Reference Standard : SASO-ISO: 10545 (Part - 14) - 2016

a) Description of tiles : Pressed Ceramic Tiles
b) Number of Specimen: 5 Whole Tiles, Three Specimens for each Chemical
c) Nominal Size: 600 x 600 x 8.0 mm
d) Work Size: 600 x 600 x 8.0 mm
e) Thickness: 8.0 mm
f) Instruments Used: Drying Oven
g) Test Solution Used: Light Oil, Iodine, Olive Oil, HCl, Potassium Hydroxide, Acetone, Chromium Oxide, Iron Oxide

a. Stain Leaving Trace:

Specimen Number	Characteristic/ Test Parameter	Requirements	Test Results	Remark
1	**Green Staining Agent** in light oil (Cr2O3 in light oil), for all tiles except green colored tiles	Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
2		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
3		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
4		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
5		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms

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b. Stain having chemical/oxidizing action:

Specimen Number	Characteristic/ Test	Requirements	Test Results	Remark
1		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
2		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
3	**Iodine**, 13gm/l solution in alcohol	Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
4		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
5		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms

c. Stain Forming a film:

Specimen Number	Characteristic/ Test	Requirements	Test Results	Remark
1		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
2		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
3	**Olive oil**	Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
4		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms
5		Min Class 3	**Class 5** 4 drops of stain are applied in Tile and kept covered for 24h, Stain Removed by Hot Water after 24h	Conforms

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C. Chemical Property

(iii) Determination of Lead and Cadmium given off by tiles

Reference Standard : SASO-ISO: 10545 (Part - 15) - 2022

a) Description of tiles : Pressed Ceramic Tiles

b) Number of Specimen: 3 Whole Tiles

c) Nominal Size: 600 x 600 x 8.0 mm

d) Work Size: 600 x 600 x 8.0 mm

e) Thickness: 8.0 mm

f) Instruments Used: ICP OES, Silicone Sealant, Measuring Cylinder

g) Test Solution Used: Each test specimen surface of tile clean and free from grease or other material by washing with detergent and rinse with water. Proper care to protect glaze surface. Apply silicone sealant 6mm wide to glazed surface around the whole perimeter.

Lead and Cadmium Release

Lead Release (mg/l & mg/dm²)

Specimen Number	Characteristic/ Test Parameter	Requirements	Test Results	Remark
1	Mass Concentration of lead in extract ṗ(Pb) mg/l	NA	Not Detected (Detection Limit 0.005)	Conforms
	Mass of lead Extracted per unitof Surface ṗA(Pb), mg/dm²	0.8 mg/dm²	Not Detected (Detection Limit 0.005)	
2	Mass Concentration of lead in extract ṗ(Pb) mg/l	NA	Not Detected (Detection Limit 0.005)	Conforms
	Mass of lead Extracted per unitof Surface ṗA(Pb), mg/dm²	0.8 mg/dm²	Not Detected (Detection Limit 0.005)	
3	Mass Concentration of lead in extract ṗ(Pb) mg/l	NA	Not Detected (Detection Limit 0.005)	Conforms
	Mass of lead Extracted per unitof Surface ṗA(Pb), mg/dm²	0.8 mg/dm²	Not Detected (Detection Limit 0.005)	

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Lead and Cadmium Release

Cadmium Release (mg/l & mg/dm²)

Specimen Number	Characteristic/ Test Parameter	Requirements	Test Results	Remark
1	Mass Concentration of cadmium in extract ρ(Cd) mg/l	NA	Not Detected (Detection Limit 0.005)	Conforms
	Mass of cadmium in extracted per unitof Surface ρA(Cd), mg/dm²	0.07 mg/dm²	Not Detected (Detection Limit 0.005)	
2	Mass Concentration of cadmium in extract ρ(Cd) mg/l	NA	Not Detected (Detection Limit 0.005)	Conforms
	Mass of cadmium in extracted per unitof Surface ρA(Cd), mg/dm²	0.07 mg/dm²	Not Detected (Detection Limit 0.005)	
3	Mass Concentration of cadmium in extract ρ(Cd) mg/l	NA	Not Detected (Detection Limit 0.005)	Conforms
	Mass of cadmium in extracted per unitof Surface ρA(Cd), mg/dm²	0.07 mg/dm²	Not Detected (Detection Limit 0.005)	

Conclusion: The Sample provided by the Party for testing as per SASO-ISO 13006: 2018, Conforms the Requirements of the Specifications mentioned and other test methods used.

Opinion and Interpretation: Not Applicable

Reviewed By

Karan Singh

For, Hexiqon Laboratory Pvt. Ltd.

Pavitra Singh

(Authorised Signatory)

Note:
1. This report, in full or in part, shall not be published, advertised, used for any legal action, unless prior permission has been secured from the CEO of Laboratory.
2. This test report is ONLY FOR THE SAMPLE TESTED.

.....End of Report.....