

**KEEP YOUR
ROOMS
COOL
THIS SUMMER**



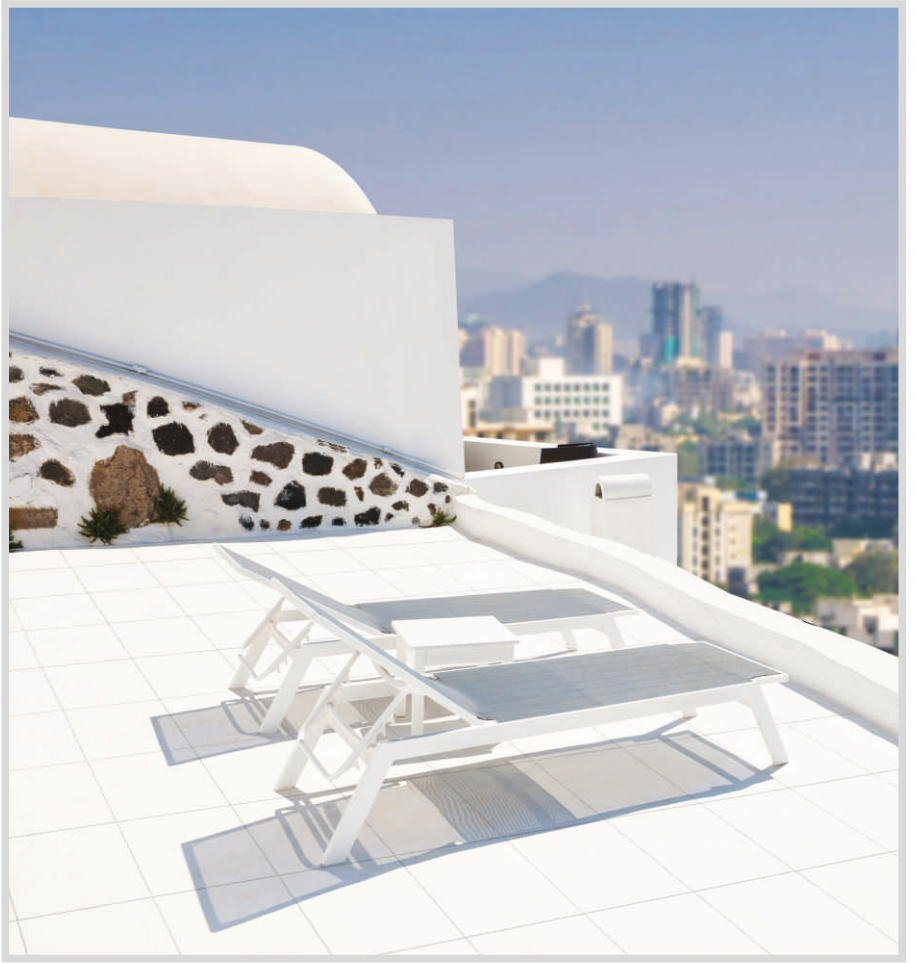
COOL[®]
TILES

With SRI Value - upto 98*

APPLICATION AREAS:

Building Terraces | Exterior Walls | Pavements | Balconies

Size: 300x300 mm





COOL[®]
T I L E S

With SRI Value - upto 98*

5 Coolest Benefits with OBL Cool Tiles



Comfortable Interiors

Summer responsive Roof and walls reduce the room temperature



Energy Saving

Cooler interiors Roof and walls reduce the room temperature



Additional Advantage

Slip Resistant.
Cooler surface to Walk on.



Environment Care

IGBC (Indian Green Building Council) & GRIHA certified hence part of Green Building Movement



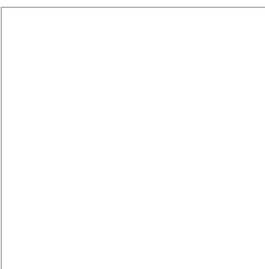
Innovative Use

Security Guard Cabin,
Roof Top water Tanks (outer wall)



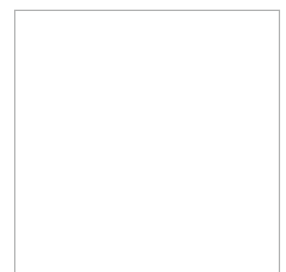
**SRI Value tested by Verified laboratories for both the manufacturing plants.*

From Sikandarabad

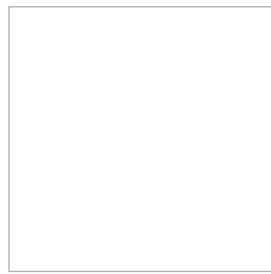


300x300mm |
ORIENT COOL TILES (EC) BIANCO
Floor Tile

From Sikandarabad

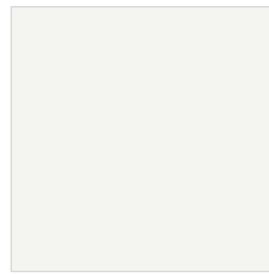


300x300mm |
OPV ORIENT EC COOL TILES
Paver Tile



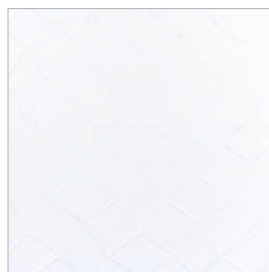
G5
F1
R1

PAV COOL TILE WHITE



G5
R1
F1

PAV COOL TILE GREY



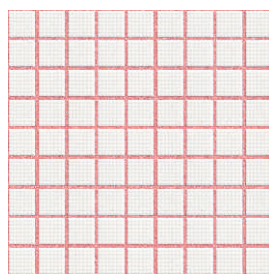
G5
F1
R1

300x300mm |
HULK COOL WHITE



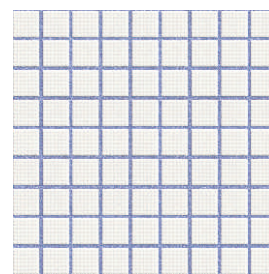
G5
R1
F1

PAV COOL TILE BLUE



G5
R1
F1

MOSAIC COOL PINK



G5
R1
F1

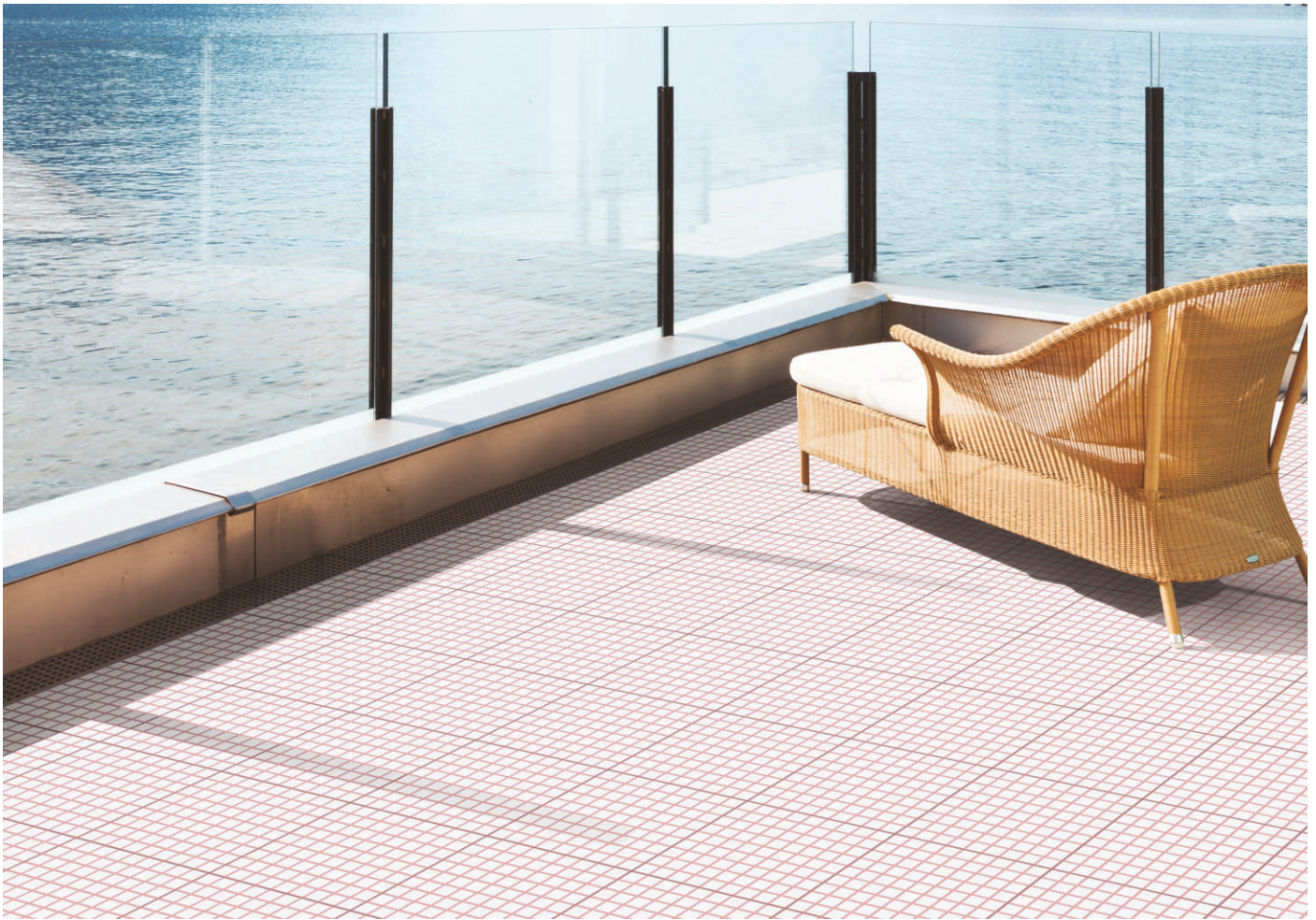
MOSAIC COOL BLUE



G5
F1
R1

PLAIN COOL PRO EC WHITE

From Hoskote



CRDF CEPT RESEARCH AND DEVELOPMENT FOUNDATION
 CEPT Research & Development Foundation
 Test Report for Solar Reflectance Index (SRI)
 ULR-TC702020000000187F
 Report Date: 20th February 2020

CRDF CEPT RESEARCH AND DEVELOPMENT FOUNDATION
 CEPT Research & Development Foundation
 Test Report for Solar Reflectance Index (SRI)
 ULR-TC702020000000187F
 Report Date: 20th February 2020

Report No: CRDF/RPT/SRI/493

2.1.2 Results of the measurement:

Solar Direct Reflectance					
Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
300 x 300 Ceramic Tile	SRI/02/20/1494	0.7825	0.7825	0.7831	0.7827

Emissivity					
Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
300 x 300 Ceramic Tile	SRI/02/20/1494	0.890	0.889	0.887	0.889

Solar Reflectance Index (SRI) under different wind conditions					
Sample name	Sample ID	Solar Reflectance Index (SRI)			Average
		Low Wind($h_w=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($h_w=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($h_w=30 \text{ W m}^{-2} \text{ K}^{-1}$)	
300 x 300 Ceramic Tile	SRI/02/20/1494	97	97	98	98

Surface Temperature (T_s) under different wind conditions					
Sample name	Sample ID	Surface Temperature ($^{\circ}\text{C}$)			Average
		Low Wind($h_w=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($h_w=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($h_w=30 \text{ W m}^{-2} \text{ K}^{-1}$)	
300 x 300 Ceramic Tile	SRI/02/20/1494	50.9	45.6	41.3	41.3

Remark, if Any:

3 Certificate of Accuracy:
 This is to certify that the test results herein presented are, to the best of my knowledge, true and accurate representations of the samples submitted.



Yashkumar Shukla
 Yashkumar Shukla
 Technical Director

N.D. Bhesaniya
 Nikhil Bhesaniya
 Lab. Technician

Disclaimer:

- The CEPT Research & Development Foundation is not responsible for any kind of alterations in the physical property of the sample and the customer is solely responsible for it and its consequences.
- The test results and the statement of compliance with specification in this report relate only to the test sample as tested and not to the sample/item from which the test sample was drawn. Sample will be destroyed after 7 days of issue of the report unless specified by the customer.
- Any complains about this report should be communicated in writing within 7 days of issue of the report.
- The test report shall not be reproduced fully or partially or in parts and cannot be used as an evidence in a court of law and shall be used in advertising media without written approval of Director, CEPT Research & Development Foundation.

CEPT Research & Development Foundation, CEPT University, K. L. Campus, Navrangpura, Ahmedabad- 380 009;
 Phone No: 079-26302470- Extn: 383, 26302740 Fax: +91 79 26302075 Email: ashajoshi@cept.ac.in
 Page 2 of 2

FTIR/USRI, ISSUE No. 9

Report No: CRDF/RPT/SRI/493

Report of test carried out by CEPT Research & Development Foundation for Solar Reflectance Index of Supplied Material
 The test results of the specimen submitted for Solar Reflectance Index on date 18th February 2020 are as under:

1. Customer Information
 - i. Name of the Organization : Orient Bell Limited
 - ii. Contact Person : Mr. Amit Kumar
 - iii. Address : B - Industrial Area, Sikandrabad - 203205
 - iv. Phone Numbers : 05735-222203 | 7055212649
 - v. Fax Number : Not Applicable
 - vi. Email : amit.kumar3@orientbell.com

2. Photometry Testing

2.1 Glazing Materials

- 2.1.1 Sample Details
 - i. Sample Identification Number : SRI/02/20/1494
 - ii. Date of Test : 18th February 2020
 - iii. Name and any other pertinent identification of the material (Including physical description) : 300 x 300 Ceramic Tile
 - iv. Thickness of the specimen (Reported) : 7.3 mm
 - v. Thickness as tested : Not Applicable
 - vi. Condition of Sample when received : Satisfactory
 - vii. Method and Environment used for conditioning (if used) : Not Applicable
 - viii. No. of Surfaces : Not Applicable
 - ix. The type of surfaces : Not Applicable
 - x. Position of panes (if Multiple Glazed) : Not Applicable
 - xi. The position of coating(s) designating faces of the panes as 1, 2, 3 starting from the outer surface of pane 1: Not Applicable
 - xii. The face of the panes (if Coated) : Not Applicable
 - xiii. Instrument used : Spectrophotometer with integrating sphere with reference material Spectralone & FTIR with IR specular reflection set. ASTM E 1980-19, EN 12898:2019, EN 673:2011, and EN 410:2011
 - xiv. Boundary Conditions (Test Method) : Not Applicable

N.D. Bhesaniya
 Nikhil Bhesaniya
 Lab. Technician



Yashkumar Shukla
 Yashkumar Shukla
 Technical Director

CEPT Research & Development Foundation, CEPT University, K. L. Campus, Navrangpura, Ahmedabad- 380 009;
 Phone No: 079-26302470- Extn: 383, 26302740 Fax: +91 79 26302075 Email: ashajoshi@cept.ac.in
 Page 1 of 2

FTIR/USRI, ISSUE No. 9



NEWTECH TILES AND PAVERS TESTING LABORATORY

AP-21(Old), 1st Floor, 1st Street, 1st Sector, K.K. Nagar, Chennai - 600 078.
(Regd. Ministry of Micro, Small, Medium Enterprises - Govt. of India)



Certificate No: SRI/040

NTPTL/2020-21

CERTIFICATE

Ref. No: NTPTL/040/2020-21	Date of Receipt: 09/07/2020	No. of Pages: 1/1	
	Date of Issue: 18/07/2020	Size: 300x300x 9.5mm	
Sample Description : Ceramic Tile - " Cool White "			
Sample Submitted by: M/s Orient Bell Limited Vill-Chokkahalli, Taluk-Hoskote, Bangalore (Rural) - 562114, Karnataka, India			
Issued in favour of: M/s. M/s Orient Bell Limited Vill-Chokkahalli, Taluk-Hoskote, Bangalore (Rural) - 562114, Karnataka, India			
Reference: Letter dated 09.07.2020			
Test Method: ASTM: C-1549; ASTM: C-1371 and ASTM: E-1980			
TEST PARAMETER	METHOD	OBTAINED VALUES (Average)	
Solar Absorbance	ASTM:C-1549	0.248	
Solar Reflectance	ASTM:C-1549	0.752	
Thermal Emissivity	ASTM:C-1371	0.86	
Solar Reflectance Index (SRI Value)	ASTM:E-1980	92	
Surface Temperature with Solar Reflectance Index (SRI Value) under different wind conditions			
Wind Condition	Low Wind (0-2 m/s)	Medium Wind (2-6 m/s)	High Wind (6-10 m/s)
	53.9 °C	47.5 °C	42.2 °C
Surface Temperature (°C)	91.5	92.4	92.9
Solar Reflectance Index (SRI Value)			
Instruments Used: 1. Solar Spectrum Reflectometer (wavelength range: 0.3 - 2.5 μm): for Solar Absorbance & Solar Reflectance			
2. Emissometer (wave length range: 3-30 μm) : for Thermal Emissivity			

The results relate only to the sample tested. The test report should not be utilized for any legal purposes and will not be produced in the court of law and no responsibility will be attached to the Centre

This Certificate is issued under the conditions mentioned overleaf

AUTHORIZED SIGNATORY
A. Rajkumar
(A. RAJKUMAR)



RP23GPC00081



GRIHA Council

This is to certify that the product of

“Orient Bell Limited”

COOL TILES

(Under Typology: High SRI external tiles)

has been included in the GRIHA Product Catalogue under the following categories:

GRIHA V. 2019 criterion: 3 & 7

GRIHA V.2015 criterion: 3 & 8

GRIHA V. 3.1 criterion: 5 & 14

& SVAGRIHA criterion: 2 & 5

The product can be used in GRIHA & SVAGRIHA registered projects to meet the GRIHA & SVAGRIHA norms, respectively. This is valid only for the product which has been mentioned above.

The certificate for the above-mentioned product are valid from

17th November 2023 – 16th November 2025

Sanjay Seth

Vice President & Chief Executive Officer

Note:

1. Before selecting the above specified products, it is recommended to revalidate that the project is meeting the GRIHA's mandatory compliances.
2. This evaluation has been done based on the documentation – in the form of 3rd party test results and/or declarations – submitted by the manufacturer to GRIHA Council.
3. The enlisted product(s) only qualify for the criterion mentioned in the certificate.

GRIHA Council is a joint initiative of Ministry of New and Renewable Energy, Government of India to implement GRIHA (Green Rating for Integrated Habitat Assessment)

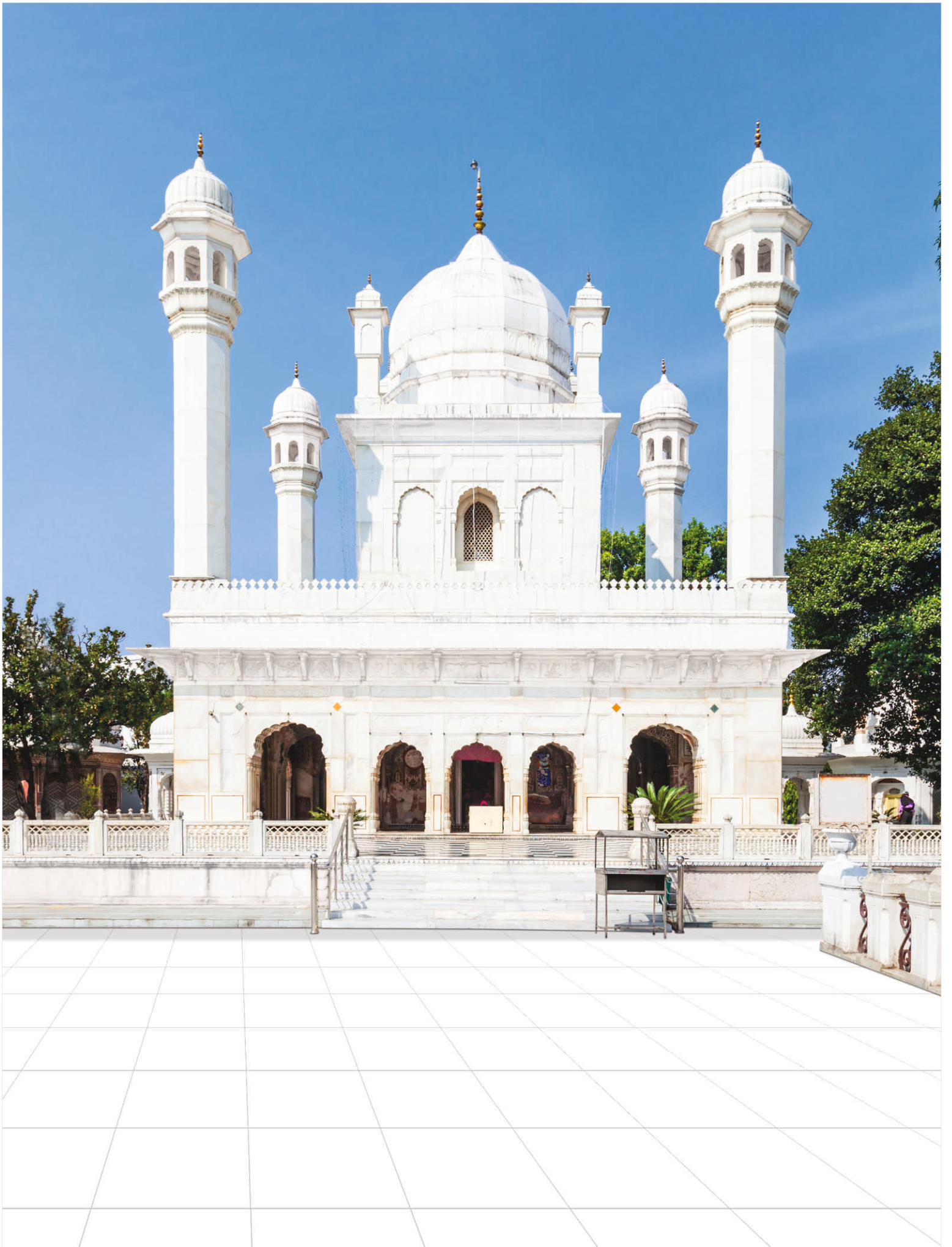




Use OBL Cool Tiles on sun facing walls



Give your security guard some comfort this summer



Walk barefoot with ease in summers






TECHNICAL SPECIFICATIONS

Cool Tile (Floor) from Sikandarabad

Packing Details

Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. ft.)
300X300 (Cool Tile)	12	1.08	11.63

(3<E≤6% Group BIIa) as per IS 15622:2017






Characteristics	Test Method	Requirement as per IS 15622:2017 3<E≤6 (Group B IIa)		OBL Value
		Unrectified	Rectified	
Dimension & Surface Quality				
Deviation in Length & Width	IS 13630 Part 1	± 0.4 %	± 0.1 %	± 0.1 %
Deviation in Thickness		± 5.0 %		± 4.0 %
Straightness of Sides		± 0.3 %	± 0.1 %	± 0.1 %
Rectangularity		± 0.3 %	± 0.1 %	± 0.1 %
Surface Flatness		±0.5%		± 0.2 % 
Surface Quality		Min. 95 % tiles shall be free from visible defects that would impair the appearance of a major area of the tile		Conforms
Physical Properties				
Water Absorption %	IS 13630 Part 2	Average 3<E≤6%, individual 6.2% Max.		3-6% 
Modulus of Rupture in [N/mm ²]	IS 13630 Part 6	Average 22, individual 20, Min		Min 30 N/mm ² 
Breaking Strength in N	IS 13630 Part 6	600 Min for thickness <7.5 mm, 1000 Minimum for thickness ≥ 7.5 mm		Min 700 N 
Moisture Expansion	IS 13630 Part 3	0.03 Max		Conforms
Scratch Hardness (Moh's Scale)	IS 13630 Part 13	4 Min		4 Min 
Resistance to Surface abrasion of glaze tiles Class I to V (Applicable for floor applications only)	IS 13630 Part 11	Class II Min		Class II to IV (Depending on surface)
Linear thermal expansion Co-efficient	IS 13630 Part 4	9x10 ⁻⁶ , Max		Conforms
Thermal Shock Resistance	IS 13630 Part 5	10 Cycles, Min		Passed
Crazing Resistance	IS 13630 Part 9	4 Cycles at 7.5 Bar, Min		Passed
Impact Resistance	IS 13630 Part 14	0.55, Min		Min 0.60
Frost Resistance	IS 13630 Part 10	Required if agreed to between manufacturer and purchaser		Passed
Chemical Properties				
Resistance to staining of Glazed Tiles	IS 13630 Part 8	Class I Min		Min. Class-1
Resistance to Household Chemicals		Class AA, Min		Min. Class-AA
Resistance to acids and alkalis (Except HF)		Require If Agreed		Min. Class-AA

NOTE: Certain amount of Size and Shade variation is inherent in all ceramic products. Within the limits of printed material, the colors and aesthetics of the products correspond closely to those of illustrated products. Prospective customers are advised to inspect a sample of the tile before ordering and laying. At all points of time, the company liability is restricted to the purchase value of tiles.

Every effort has been made to ensure the accuracy of the information given. However, the company reserves the right to delete & change, any of the items, colors, sizes & technical specifications without any prior notice.

TECHNICAL SPECIFICATIONS Cool Tile (Paver) from Sikandarabad

Packing Details			
Size	No. of Tiles Per Carton	Covered Area Per Carton	
(In mm.)		(In Sq. Mtr.)	(In Sq. ft.)
300X300 (Cool Tile)	10	0.9	9.69

Characteristics	Test Method	Requirement as per IS 15622:2017 0.08<E≤3 (Group B Ib)		OBL Value
Dimension & Surface Quality				
Deviation in Length & Width	IS 13630 (Part 1)	± 0.4 %	± 0.1 %	± 0.1 %
Deviation in Thickness		± 5.0 %		± 4.0 %
Straightness of Sides		± 0.3 %	± 0.1 %	± 0.1 %
Rectangularity		± 0.3 %	± 0.1 %	± 0.1 %
Surface Flatness		±0.5%		± 0.2 % 
Surface Quality		Min. 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of the tile		Conform
Physical Properties				
Water Absorption %	IS 13630 (Part 2)	Avg 0.08<E≤3%, Individual 3.3 % Max		Max 2% 
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6)	Avg 30, Individual 27 Min		Min 36 N/mm ² 
Breaking Strength in N	IS 13630 (Part 6)	700 Min for thickness <7.5 MM, 1100 Min for thickness ≥ 7.5 MM		Min 1600 N 
Moisture Expansion	IS 13630 (Part 3)	0.02 Max		Conform
Scratch Hardness (Moh's Scale)	IS 13630 (Part 13)	5 Min		Min 6 
Resistance to Surface abrasion of glaze tiles Class I to V (Applicable for floor applications only)	IS 13630 (Part 11)	Class II Min		Class III to V (Depending on surface)
Linear thermal expansion Co-efficient	IS 13630 (Part 4)	7×10 ⁻⁶ , Max		Conform
Thermal Shock Resistance	IS 13630 (Part 5)	10 Cycles, Min		Conform
Crazing Resistance	IS 13630 (Part 9)	4 Cycles at 7.5 Bar, Min		Conform
Impact Resistance	IS 13630 (Part 14)	0.55, Min		Min 0.60
Bulk Density, in g/cc	IS 13630 (Part 2)	2.0, Min		2.2 Min
Frost Resistance	IS 13630 (Part 10)	Requires if agreed to between manufacturer and purchaser		Passes
Chemical Properties				
Resistance to staining of Glazed Tiles	IS 13630 (Part 8)	Class I Min		Min Class I
Resistance to Household Chemicals		Class AA, Min		Min Class AA
Resistance to acids and alkalis (Except HF)		Require If Agreed		Min Class AA

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TECHNICAL SPECIFICATIONS

Cool Tile (Paver) from Hoskote

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. ft.)
300X300 (Cool Tile)	10	0.9	9.68

As per ISO 13006:2012 (Group B Ia) and as IS 15627:2017 (Group B Ib)				
Characteristics	Test Method	Required as per IS 15622:2017 0.08 < E ≤ 3 % (Group B b		OBL Value
		Unrectified	Rectified	
Dimension & Surface Quality				
Deviation in Length & Width	IS 13630 (Part 1):2006	± 0.4 %	± 0.1 %	± 0.10 %
Deviation in Thickness		± 5.0 %		± 4.0 %
Straightness of Sides		± 0.3 %	± 0.1 %	± 0.10 %
Rectangularity		± 0.3 %	± 0.1 %	± 0.10 %
Surface Flatness		±0.5%		± 0.2 % 😊😊
Surface Quality		Min. 95 % tiles should be free from visible defects		Conform
Physical Properties				
Water Absorption %	IS 13630 (Part 2):2006	Avg 0.08<E≤3%, Individual 3.3 % Max		Av < 3% 😊😊
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6):2006	Avg 30, Individual 27 Min		> 35 😊😊
Breaking Strength in N	IS 13630 (Part 6):2006	700 Min for thickness <7.5 MM, 1100 Min for thickness ≥ 7.5 MM		1500 Min 😊😊
Moisture Expansion	IS 13630 (Part 3):2006	0.02 Max		Conforms
Scratch Hardness (Moh's Scale)	IS 13630 (Part 13):2006	5 Min		5-8 depends on surface 😊
Resistance to Surface abrasion of glaze tiles Class I to V (Applicable for floor applications only)	IS 13630 (Part 11):2006	Class II Min		3-5 as per design/surface
Linear thermal expansion Co-efficient	IS 13630 (Part 4):2006	7x10 ⁻⁴ , Max		Conforms
Thermal Shock Resistance	IS 13630 (Part 5):2006	10 Cycles, Min		Passed
Crazing Resistance	IS 13630 (Part 9):2006	4 Cycles at 7.5 Bar, Min		Passed
Impact Resistance	IS 13630 (Part 14):2006	0.55, Min		Conforms
Frost Resistance	IS 13630 (Part 10):2006	Required		Resistance
Chemical Properties				
Resistance to staining of Glazed Tiles	IS 13630 (Part 8):2006	Class I Min		Min. Class-1
Resistance to Household Chemicals		Class AA, Min		Min. Class-AA
Resistance to acids and alkalis (Except HF)		Require If Agreed		Required, if agreed

NOTE: Certain amount of Size and Shade variation is inherent in all ceramic products. Within the limits of printed material, the colors and aesthetics of the products correspond closely to those of illustrated products. Prospective customers are advised to inspect a sample of the tile before ordering and laying. At all points of time, the company liability is restricted to the purchase value of tiles.

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