

**High SRI, low bijli ka bill,
cool tiles lagao aur karo chill!**

Cool[®]
T I L E S



600x600mm & 300x300mm



Reduces heat
absorption



Keeps the surface
cooler for longer



SRI value
upto 98



Upto 8°C drop in
temperature



APPLICATIONS AREAS :



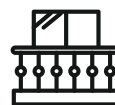
Building Terraces



Exterior Walls



Pavements



Balconies



With Solar Reflective Index (SRI) Value upto 98*

Cooler Benefits with OBL

COOL[®]
T I L E S



Comfortable Interiors

Summer responsive Roof and walls reduce the room temperature



Innovative Use

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



Energy Saving

Cooler interiors Roof and wall reduce the room temperature



Additional Advantage

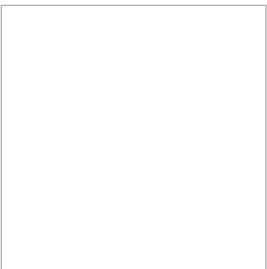
Slip Resistant.
Cooler surface to Walk on.



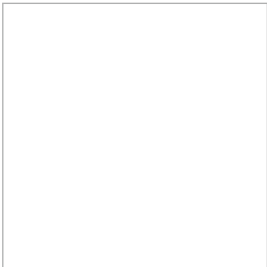
IGBC & GRIHA certified



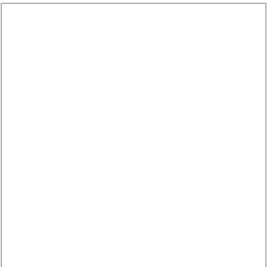
*Independently lab tested.



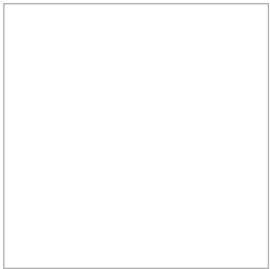
300x300mm
BIANCO ORIENT EC COOL TILES



300x300mm
OPV ORIENT EC COOL TILES



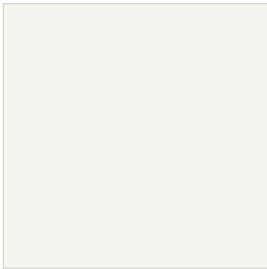
300x300mm
PLAIN COOL PRO EC WHITE



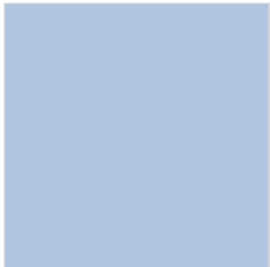
300x300mm
PAV COOL TILE WHITE



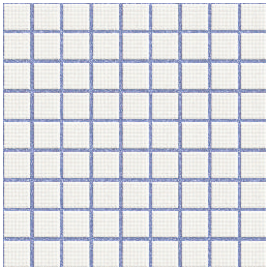
300x300mm
HULK COOL WHITE



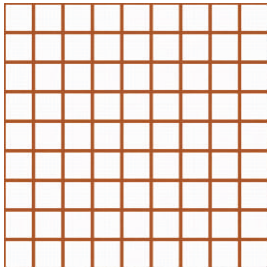
300x300mm
PAV COOL TILE GREY



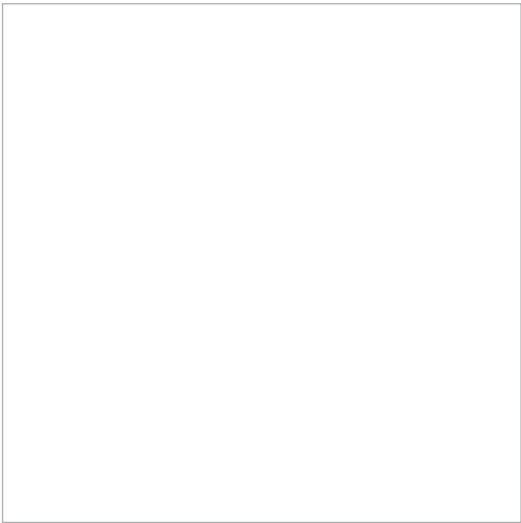
300x300mm
PAV COOL TILE BLUE



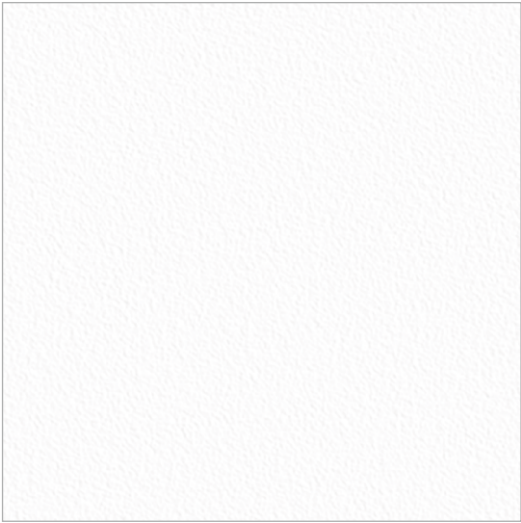
300x300mm
MOSAIC COOL BLUE



300x300mm
MOSAIC COOL BROWN



600x600mm
PLAIN COOL TILE



600x600mm
DEW DROPLETS COOL TILE



Test Report

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

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
- Name of the Organization : Orient Bell Limited
 - Contact Person : Mr. Amit Kumar
 - Address : B - Industrial Area, Sikandrabad - 203205
 - Phone Numbers : 05735-222203 / 7055212549
 - Fax Number : Not Applicable
 - Email : amit.kumar3@orientbell.com

2. Photometry Testing

2.1 Glazing Materials

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

N.D. Ghesaniya
Nikhil Bhesaniya
Lab. Technician

CEPT Research & Development Foundation, CEPT University, K. L. Campus, Navrangpura, Ahmedabad- 380 015.
Phone No: 079-26302470- Extn: 363, 26302740 Fax: +91 79 26302075 Email: ashajoshi@cepf.ac.in
Page 1 of 2

FTR/01/SRI, ISSUE No. 9

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	Low Wind($\rho_a=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($\rho_a=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($\rho_a=30 \text{ W m}^{-2} \text{ K}^{-1}$)
300 x 300 Ceramic Tile	SRI/02/20/1494	97	97	98

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Low Wind($\rho_a=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind($\rho_a=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind($\rho_a=30 \text{ W m}^{-2} \text{ K}^{-1}$)
300 x 300 Ceramic Tile	SRI/02/20/1494	50.9	45.6	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.

N.D. Ghesaniya
Nikhil Bhesaniya
Lab. Technician



Yashkumar Shukla
Technical Director

- 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 complaints 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- 380 015.
Phone No: 079-26302470- Extn: 363, 26302740 Fax: +91 79 26302075 Email: ashajoshi@cepf.ac.in
Page 2 of 2

FTR/01/SRI, ISSUE No. 9

Yashkumar Shukla
Technical Director

Test Report

CRDF CEPT RESEARCH & DEVELOPMENT FOUNDATION

Report No: CRDF/RPT/SRU/840

Report of test carried out by CEPT Research & Development Foundation

The test results of the specimen submitted for Solar Reflectance Index on date 21st November 2023 are as under:

ULR-TC702023000000158F

Report Date: 27th December 2023

1. Customer Information

i. Name of the Organization : Orient Bell Limited

ii. Contact Person : Arpit Gupta

iii. Address : 8, Industrial Area, Sikandrabad
Uttar Pradesh - 203205

iv. Phone Numbers : 9909962977

v. Fax Number : Not Applicable

vi. Email : arpit.gupta@orientbell.com / varinder.pau@orientbell.com

2. Photometry Testing

2.1 Glazing Materials

2.1.1 Sample Details

i. Sample Identification Number : SRU/12/23/1641

ii. Date of Test : 26th December 2023

iii. Name and any other pertinent identification of the specimen : 300X300mm CPV Cool Tile (Paver)

iv. Thickness of the specimen (As declared by customer) : 9.5 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. Condition used for laboratory soiling And weathering (if used) : Not Applicable

ix. Description of soiling mixture (if laboratory soiling and Weathering used) : Spectrophotometer with integrating sphere with reference material Spectralone & FTIR with IR specular reflection set. Temperature 24.1°C and Humidity 45% RH

x. Instrument used : ASTM E 1900, BS EN 12898, EN 673 and EN 410

xi. Environmental Conditions maintained during the test : Not Applicable

xii. Boundary Conditions (Test Method)

Reviewed By: Yashkumar Shukla
Technical Director

Authorized By: Yashkumar Shukla
Technical Director

CEPT Research & Development Foundation, CEPT University, K. L. Campus, Navrangpura, Ahmedabad-380 006.
Phone No: 079-69310900- Extn: 383, Fax: +91 79 26362075, Email: anshajoshi@cept.ac.in

Page 1 of 3

CRDF CEPT RESEARCH & DEVELOPMENT FOUNDATION

Test Report for Solar Reflectance Index (SRI)

ULR-TC702023000000158F

Report Date: 27th December 2023

Report No: CRDF/RPT/SRU/840

4 Results of the measurement:

Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
300X300mm CPV Cool Tile (Paver)	SRU/12/23/841	0.7394	0.7391	0.7397	0.7394

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
300X300mm CPV Cool Tile (Paver)	SRU/12/23/841	0.891	0.889	0.888	0.889

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Low Wind ($\rho_{\infty}=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind ($\rho_{\infty}=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind ($\rho_{\infty}=30 \text{ W m}^{-2} \text{ K}^{-1}$)
300X300mm CPV Cool Tile (Paver)	SRU/12/23/841	90	91	92

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Low Wind ($\rho_{\infty}=5 \text{ W m}^{-2} \text{ K}^{-1}$)	Medium Wind ($\rho_{\infty}=12 \text{ W m}^{-2} \text{ K}^{-1}$)	High Wind ($\rho_{\infty}=30 \text{ W m}^{-2} \text{ K}^{-1}$)
300X300mm CPV Cool Tile (Paver)	SRU/12/23/841	54.5	47.9	42.5

Remark, if Any:

5 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.

Reviewed By: Yashkumar Shukla
Technical Director

Authorized By: Yashkumar Shukla
Technical Director

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/term from which the test sample was drawn. Sample will be destroyed after 7 days of issue of the report unless specified by the customer.
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CEPT Research & Development Foundation, CEPT University, K. L. Campus, Navrangpura, Ahmedabad-380 006.
Phone No: 079-69310900- Extn: 383, Fax: +91 79 26362075, Email: anshajoshi@cept.ac.in

Page 2 of 3

Test Report



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)



NTPTL/2024-25

No: OBL/178

TEST REPORT

Ref.No: NTPTL/178/2024-25	Date of Receipt: 25.07.2024 Date of Issue : 29.07.2024	No. of Pages: 1/1
Sample Description Sample submitted by	PLAIN COOL PRO WHITE /Colour: White/Size:300 x 300 mm Orient Bell Limited Village-Chokkahalli, Taluka-Hoskote,,Bengaluru, Bengaluru (Rural), Pin-562114, Karnataka.	
Issued in favour of	Orient Bell Limited	
Reference	JPOHSK/2425/00101 dated 25.07.2024	
Test Method	ASTM: C-1549; ASTM: C-1371 and ASTM: E-1980	

TEST PARAMETER	TEST METHOD	OBTAINED VALUES (Average)	
Solar Absorptance (α)	ASTM:C-1549	0.292	
Solar Reflectance (R)	ASTM:C-1549	0.706	
Thermal Emissivity (ϵ)	ASTM:C-1371	0.82	
Solar Reflectance Index Value (*SRI Value)	ASTM:E-1980	85	
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)
Surface Temperature	58.5 °C	50.3 °C	43.6 °C
Solar Reflectance Index (SRI Value)	83.0	84.9	86.1

Instruments Used: 1.Solar Spectrum Reflectometer (wavelength range: 0.3 -2.5µm) for Solar Absorptance &Solar Reflectance
2. Endssometer(wave length range: 3-30 µm) for Thermal Emissivity
(* SRI Value - By calculation from Solar Reflectance and 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 this laboratory

This test report is issued under the conditions mentioned overleaf



Handwritten signature
29/07/2024
AUTHORIZED SIGNATORY



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)



NTPTL/2025-26

No:OBL/223

TEST REPORT

Ref.No:NTPTL/223/2025-26	Date of Receipt: 24.12.2025 Date of Issue : 01.01.2026	No. of Pages: 1/1
Sample Description	Paver Cool Tile /Colour: White / Size: 300 x 300 mm	
Sample submitted by	Orient Bell Limited Village-Chokkahalli, Taluka-Hoskote,,Bengaluru, Bengaluru (Rural), Pin-562114, Karnataka.	
Issued in favour of	Orient Bell Limited	
Reference	P.O : JPOHSK/2526/00350	
	ASTM: C-1549; ASTM: C-1371 and ASTM: E-1980	

TEST PARAMETER	TEST METHOD	OBTAINED VALUES (Average)	
Solar Absorptance (α)	ASTM:C-1549	0.259	
Solar Reflectance (R)	ASTM:C-1549	0.739	
Thermal Emissivity (ϵ)	ASTM:C-1371	0.83	
Solar Reflectance Index Value (*SRI Value)	ASTM:E-1980	90	
Ambient Temperature: 22 °C	Surface Temperature:48.4 °C	SRI Value :90	
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)
Surface Temperature	55.5 °C	48.4 °C	42.7 °C
Solar Reflectance Index (SRI Value)	89	90.0	91

Instruments Used: 1.Solar Spectrum Reflectometer (wavelength range: 0.3 -2.5 μ m) for Solar Absorptance&Solar Reflectance

2. Emissometer(wave length range: 3-30 μ m) for Thermal Emissivity

(* SRI Value - By calculation from Solar Reflectance and 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 this laboratory

This test report is issued under the conditions mentioned overleaf



Aneil V 01/01/2026
AUTHORIZED SIGNATORY

Test Report

**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)



NTPTE/2025-26

No: OBL/211/2

TEST REPORT

Ref.No: NTPTE/211/2/2025-26	Date of Receipt: 04.07.2025 Date of Issue : 09.07.2025	No. of Pages: 1/1
Sample Description Sample submitted by	Plain Cool Tile / Colour: White / Size: 600 x 600 mm Orient Bell Limited Village-Chokkahalli, Taluka-Hoskote, Bengaluru, Bengaluru (Rural), Pin-562114, Karnataka.	
Issued in favour of	Orient Bell Limited	
Reference	Email dated 26.06.2025	
Test Method	ASTM: C-1549; ASTM: C-1371 and ASTM: E-1980	

TEST PARAMETER	TEST METHOD		OBTAINED VALUES (Average)
Solar Absorptance (α)	ASTM:C-1549		0.262
Solar Reflectance (R)	ASTM:C-1549		0.734
Thermal Emissivity (ϵ)	ASTM:C-1371		0.85
Solar Reflectance Index Value (*SRI Value)	ASTM:E-1980		90
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)
Surface Temperature	55.6 °C	48.5 °C	42.7 °C
Solar Reflectance Index (*SRI Value)	88.4	89.6	90.3

Instruments Used: 1. Solar Spectrum Reflectometer (wavelength range: 0.3 - 2.5 μ m) for Solar Absorptance & Solar Reflectance
2. Emissometer (wave length range: 3-30 μ m) for Thermal Emissivity

(* SRI Value - By calculation from Solar Reflectance and 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 this laboratory

This test report is issued under the conditions mentioned overleaf



Aceil
09/07/2025
AUTHORIZED SIGNATORY

Test Report



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)



NTPTL/2025-26

No: OBL/211/1

TEST REPORT

Ref.No: NTPTL/211/1/2025-26	Date of Receipt: 04.07.2025 Date of Issue : 09.07.2025	No. of Pages: 1/1
Sample Description Sample submitted by	Dew Droplets Cool Tile / Colour: White / Size: 600 x 600 mm Orient Bell Limited Village-Chokkahalli, Taluka-Hoskote, Bengaluru, Bengaluru (Rural), Pin-562114, Karnataka.	
Issued in favour of	Orient Bell Limited	
Reference	Email dated 26.06.2025	
Test Method	ASTM: C-1549; ASTM: C-1371 and ASTM: E-1980	

TEST PARAMETER	TEST METHOD	OBTAINED VALUES (Average)	
Solar Absorptance (α)	ASTM:C-1549	0.262	
Solar Reflectance (R)	ASTM:C-1549	0.734	
Thermal Emissivity (ϵ)	ASTM:C-1371	0.85	
Solar Reflectance Index Value (*SRI Value)	ASTM:E-1980	90	
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)
Surface Temperature	55.6 °C	48.5 °C	42.7 °C
Solar Reflectance Index (*SRI Value)	88.4	89.6	90.3

Instruments Used: 1. Solar Spectrum Reflectometer (wavelength range: 0.3 - 2.5 μ m) for Solar Absorptance & Solar Reflectance
2. Emissometer (wave length range: 3-30 μ m) for Thermal Emissivity

(* SRI Value - by calculation from Solar Reflectance and 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 this laboratory

This test report is issued under the conditions mentioned overleaf



Aneil
AUTHORIZED SIGNATORY



GRIHA Council

This is to certify that the product of

“Orient Bell Limited”

Cool Tile

(under typology: High SRI external paints/ tiles/ cool roof coating)

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

GRIHA V.2019: criterion: 3 & 7

GRIHA V.2015: criterion: 3 & 8

& SVAGRIHA V2.2: 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 is valid from

19th February 2026 to 18th February 2028

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 and CIIL to implement GRIHA (Green Rating for Integrated Habitat Assessment).

www.griha.in





Use OBL Cool Tiles on sun facing walls



Give your security guard some comfort this summer

TECHNICAL SPECIFICATIONS

Normal Floor Cool Tiles (SIKANDRABAD)

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
Dimension & Surface Quality		Unrectified	Rectified	
Deviation in Length & Width	IS 13630 Part1	± 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

Paver Floor Cool Tiles (SIKANDRABAD)

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/nm 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)	7x10 ⁻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

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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TECHNICAL SPECIFICATIONS

Normal Floor Cool Tiles (Hoskote)

PACKING DETAILS			
Size	No. of Tiles	Covered Area Per Carton	
(In mm.)	Per Carton	(In Sq. Mtr.)	(In Sq. Ft.)
600x600 Cool Tile	4	1.44	15.5
300x300 Cool Tile	10	0.87	9.36

AS PER INDIAN STANDARD (IS 15622:2017) GROUP B IIB				
Characteristics	Testing Methods	Required as per IS 15622:2017 3 < E ≤ 6 % (Group B II a)		OBL Norms
DIMENSIONS AND SURFACE QUALITY		Unrectified	Rectified	
Deviation in length & Width	IS 13630 Part 1/ ISO 10545-2	± 0.4 %	± 0.1 %	Conforms
Deviation in Thickness		± 5.0 %		±4.0%
Straightness of Sides		± 0.3 %	± 0.1 %	Conforms
Rectangularity		± 0.3 %	± 0.1 %	Conforms
Surface Flatness		± 0.5 %		± 0.3 % 😊😊
Surface Quality		Min. 95 % tiles should be free from visible defects		Conforms
PHYSICAL PROPERTIES:				
Water Absorption	IS 13630 Part 2/ ISO 10545-3	Avg 3 < E ≤ 6, Individual Max,6.2		5-6%
Modulus of Rupture N/mm²	IS 13630 Part 6/ ISO 10545-4	Avg 22, Individual 20, Min		>28 😊😊
Breaking Strength, in N		< 7.5 mm thickness: 600, Min ≥ 7.5 mm thickness: 1000, Min		>1000/>600 😊😊
Moisture Expansion in mm/m	IS 13630 Part 3	0.03, Max		0.02
Scratch Hardness of Surface (Mohs)	IS 13630 Part 13	4, Min		Min 5
Resistance to Surface Abrasion of glazed tiles (Class I to V)	IS 13630 Part 11/ ISO 10545-7	Class II, Min		PEI Class 3-5 (depending on surface)
Co-efficient of Linear Thermal Expansion from ambient temperature to 100°C	IS 13630 Part 4/ ISO 10545-8	9x10 ⁻⁶ K ⁻¹ ,Max		Conforms
Thermal Shock Resistance	IS 13630 Part 5	10 cycles, Min		Passed
Crazing Resistance	IS 13630 Part 9/ ISO 10545-9	4 Cycles@7.5 bar, Min		Passed 😊
Frost Resistance	IS 13630 Part 10	Required, if agreed		NA
Impact Resistance-Coefficient of restitution	IS 13630 Part 14	0.55, Min		Conforms
CHEMICAL PROPERTIES:				
Stain Resistance	IS 13630 Part 8/ ISO 10545-13 and ISO 10545-14	Class I, Min		Conforms
Resistance to household chemicals		Class AA, Min		Conforms
Resistance to acids and alkalis (with exception of hydrofluoric acid and its compounds)		Required, if agreed		Min Class AA

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TECHNICAL SPECIFICATIONS

Paver Floor Cool Tiles (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
Dimension & Surface Quality		Unrectified	Rectified	
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 ⁻⁶ , 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

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