

Building Terraces | Exterior Walls | Pavements | Balconies Size: 300x300 mm



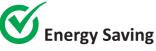


With SRI Value - upto 98\*

# 5 Coolest Benefits with OBL Cool Tiles



Summer responsive roof and wall reduce the room temperature



Cooler interiors lead to lesser requirement of energy



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



Slip Resistant Cooler surface to walk on







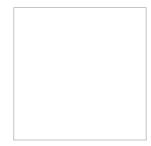
**IGBC & GRIHA certified** 

# From Sikandarabad



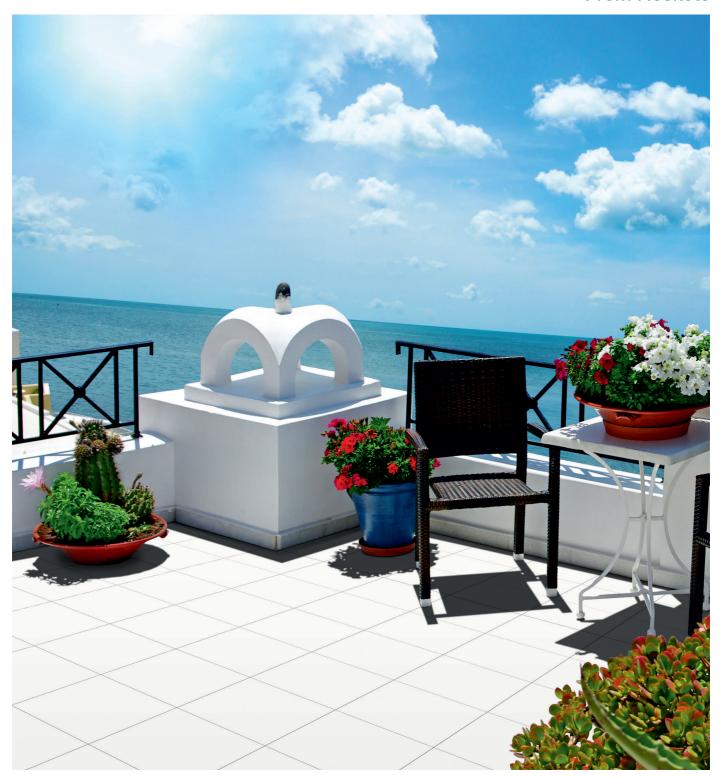


300x300mm | ORIENT COOL TILES (EC) BIANCO Floor Tile



300x300mm | OPV ORIENT EC COOL TILES Paver Tile

# From Hoskote





300x300mm | PAV COOL TILE WHITE Paver Tile



300x300mm | HULK COOL WHITE Paver Tile



CEPT Research & Development Foundation Test Report for Solar Reflectance Index (SRI)





ULR-TC702020000000187F

Report No: CRDF/RPT/SRI/493

Report Cate: 20th February 2020

Solar D	irect Reflectance	9

Report No. CREATH AND A 12 Results of the measurement	:			
			Measurement 3	Average
Solar Direct Reflectance	ID Measurement 1	Measurement 2		0.7827
	ID Measuremont	0.7825	0.7831	
Sample name   Sample		0.1020		
Ceramic Tile			Measurement 3	Average
Ceramo	memont 1	Measurement 2	Measurement	0.889

300 x 300 Ceramic Tile	SRI/02/20/1494			Measurement 3	Average
Emissivity	Sample ID	Measurement 1	Weazniellion	0.887	0.889
Sample name 300 x 300	Sample 12	0.890	0.889		
Ceramic Tile	Sign of differ	ent wind conditions		ance Index (SRI)	

ł	300 x 300	SRI/02/20/1494	l'é ang			
١	Ceramic Tile Solar Reflectance Index	(SPI) under differe	nt wind conditions	Solar Reflectance Inde	ex (SRI)	
	Solar Reflectance Inde	( (SKI) UIII		Solar Reflectation 2 K-1) Medium Wind(hc=12 W m	2 (3N1) High Wind(hc=30 W m-2 K-1)	
	Sample name	Sample ID	Low Wind(he=5 W m	<sup>2</sup> K <sup>-1</sup> ) Medium Wind(Re <sup>2-12</sup> VV	98	
	300 x 300	SRI/02/20/1494	07	97		_
	Ceramic Tile	SKIIOZIZGITI	31 1'4'ana			1
	Ceramic The	Lifforent	wind conditions	T anatı	re (°C)	1

Ouri		LUN IIII	9/	
300 x 300	SRI/02/20/1494	97		
Ceramic Tile	der different	wind conditions	Surface Temperature (°C)	
Ceramic Tile Surface Temperature (	Ts) under differen		Surface Temperature K')	High Wind(hc=30 W m-2 K-1)
Sample name	Sample ID	Low Wind(he=5 W m-2 K-1)	Medium Wind(hc=12 W m² K²)	41.3
300 x 300	SRI/02/20/1494	50.9	45.6	1
Ossemic Tile	O			

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

# Cool Tiles - Hoskote Plant





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

No: OBL/108/1

NTPTL/2022-23	TEST REPORT	No. of Pages: 1/1
Ref.No: NTPTL/108/1/2022-23	Date of Receipt: 29.08.2022 Date of Issue : 10.09.2022 : Ceramic Roof Tile - Cool White / Colour	: White
Sample Description Sample submitted by	: Orient Bell Limite Village-Chokkahalli, Taluka-Hoskote, Ben Village-Chokkahalli, Pin-562114, Karnatak	a.
Issued in favour of	: Orient Ben Lill, Taluka-Hoskote, Do. Village-Chokkahalli, Taluka-Hoskote, Do. Village-Chokkahalli, Pin-562114, Karnata	ka d 23.08.2022
Reference Test Method	Bengaluru (Ruran),	OBTAINED VALUES (Average)

eference	ASTM: C-1040		OBTAINED VALOU
est Method	TEST M	ETHOD	(Average)
TEST PARAMETER			0.215
	ASTM	:C-1549	0.784
Solar Absorptance (a)	ASTN	N:C-1549	0.84
Colar Reflectance (R)	AST	M:C-1371	97
Thermal Emissivity (E)	AST	M:E-1980	er different wind conditions  High Wind  (6-10 m/s)  41.4 °C
Solar Reflectance Index V	alue monce in	dex (SRI Value ) und	High Wind
Solar RelitSRI Value )	h Solar Reflectation	Medium Wind	(6-10 HD3)
Surface Temperature Wind Condition	(0-2 m/s)	45.9 °C	97.1
w merature	51.5 °C	96.6	Las Absorptance & Solar Reflectance
Surface Temperature Solar Reflectance Index (SR	(Value) 96.0	th range: 0.3 -2.5µm) for the	Solar Absorptance & Solar Reflectance ermol Emissivity) attired for any legal purposes
Solar Reflectance Inc.	um Reflectometer (Was-30 µm	n) for Therman	utilized for any legal purposes

mal Emissivity
ctance and Thermal Emissivity)
should not be utilized for any legal purposes
mibility will be attached to this laboratory

AUTHORIZED SIGNATORY This test report is issued under



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v.D. Blesemiya ikhil Bhesaniya



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- 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 should not be reportured failly or partially or in parts and cannot be used as an evidence in a court of
- 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 writton approval of Director, CEPT Research & Development Foundation.

CEPT Research & Development Foundation, CEPT University, K. L. Campus, Navrangpura, Ahmedabad, 380 009.
Phone No: 079-26302470, Extr. 383, 26302740 Fax: 451 79 26302075 Email: ashajoshi@capt.ac.in page 2 of 2.

01/SRI, ISSUE No. 9



## **GRIHA Council**

This is to certify that the product of

### **Orient Bell Limited**

## "Orient Bell Cool Tiles"

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

> GRIHA V.3 criterion: 5 & 14 GRIHA V.2015 criterion: 3 & 8

SVAGRIHA criterion: 2 & 5

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

> The certificate for the above mentioned products is valid from 6<sup>th</sup> September 2021 – 5<sup>th</sup> September 2023

> > **Chief Executive Officer**

GRIHA Council is a joint initiative of Ministry of New and Renewable Energy, Government of India and The Energy and Resources Institute (TERI) to implement GRIHA (Green Rating for Integrated Habitat Assessment), India's National Rating System for Sustainable Habitats. www.grihaindia.org



Packing Details					
Size	No. of Tiles	Covered Are	a Per Carton	No. of Box	No. of Layer
( In mm.)	No. of Tiles Per Carton	( In Sq. Mtr. )	( In Sq. ft. )	Per Layer	Per Pallet
300X300 (Cool Tile)	10	0.9	9.69	32	3

		Requirement as per IS 15622:2017 3 <e≤6 (group="" b="" iia)<="" th=""><th colspan="2">Requirement as per IS 15622:2017 0.08<e≤3 (group="" b="" ib)<="" th=""></e≤3></th></e≤6>		Requirement as per IS 15622:2017 0.08 <e≤3 (group="" b="" ib)<="" th=""></e≤3>	
Characteristics	Test Method	Cool Tile Floor Body Vo	ılue	Cool Tile Paver Body V	alue
Dimension & Surface Quality					
Deviation in Length & Width		± 0.1 %		± 0.1 %	
Deviation in Thickness		± 4.0 %		± 4.0 %	
Straightness of Sides		± 0.1 %		± 0.1 %	
Rectangularity	IS 13630 Part1	± 0.1 %		± 0.1 %	
Surface Flatness		± 0.2 %	₩₩	± 0.2 %	99
Surface Quality		Conforms		Conforms	
Physical Properties					
Water Absorption %	IS 13630 Part 2	3-6%	88	Max 2%	•
Modulus of Rupture in [N/mm²]	IS 13630 Part 6	Min 30 N/mm²	88	Min 36 N/nm²	9 8
Breaking Strength in N	IS 13630 Part 6	Min 700 N	99	Min 1600 N	96
Moisture Expansion	IS 13630 Part 3	Conforms		Conforms	
Scratch Hardness (Moh's Scale)	IS 13630 Part 13	4 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 to IV (Depending on surface)		Class III to V (Depending on surface)	
Linear thermal expansion Co-efficient	IS 13630 Part 4	Conforms		Conforms	
Thermal Shock Resistance	IS 13630 Part 5	Passed		Conforms	
Crazing Resistance	IS 13630 Part 9	Passed		Conforms	
Impact Resistance	IS 13630 Part 14	Min 0.60		Min 0.60	
Bulk Density, in g/cc	IS 13630 Part 2	Min 2.18 g/cc		Min 2.24 g/cc	
Frost Resistance	IS 13630 Part 10	Passed		Passed	
Chemical Properties					
Resistance to staining of Glazed Tiles		Min. Class-1		Min. Class-1	
Resistance to Household Chemicals	IS 13630 Part 8	Min. Class-AA		Min. Class-AA	
Resistance to acids and alkalis (Except HF)		Min. Class-AA		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 (Pavers) from Hoskote

Packing Details					
Size	No. of Tiles	Covered Are	a Per Carton	No. of Box	No. of Layer
( In mm.)	Per Carton	( In Sq. Mtr. )	( In Sq. ft. )	Per Layer	Per Pallet
300X300 (Cool Tile)	10	0.9	9.69	30	2

As p	er ISO 13006:2012 (Gro	up B Ia) and as IS 1 <i>5</i>	627:2017 (Group	B Ib)	
Characteristics	Test Method	Test Method Required as per IS 15622:2017 O.08 < E $\leq$ 3 % ( Group B b OBL Va		OBL Value	
Dimension & Surface Quality		Unrectified	Rectified		
Deviation in Length & Width		± 0.4 %	± 0.1 %	± 0.10 %	
Deviation in Thickness		± 5.0	) %	± 4.0 %	
Straightness of Sides		± 0.3 %	± 0.1 %	± 0.10 %	
Rectangularity	IS 13630 (Part 1):2006	± 0.3 %	± 0.1 %	± 0.10 %	
Surface Flatness		±0.5%  Min. 95 % tiles should be free from visible defects		± 0.2 %	⊕ ⊕
Surface Quality				Conform	
Physical Properties					
Water Absorption %	IS 13630 (Part 2):2006	Avg 0.08 <e≤3%, %="" 3.3="" individual="" max<="" td=""><td>Av &lt; 3%</td><td>⊕ ⊕</td></e≤3%,>		Av < 3%	⊕ ⊕
Modulus of Rupture in [N/mm²]	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		1 <i>5</i> 00 Min	••
Moisture Expansion	IS 13630 (Part 3):2006	0.02 Max		Conforms	
Scratch Hardness (Moh's Scale)	IS 13630 (Part 13):2006	5 N	in	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 I	l Min	3-5 as per design/surface	
Linear thermal expansion Co-efficient	IS 13630 (Part 4):2006	7×10°,	Max	Conforms	
Thermal Shock Resistance	IS 13630 (Part 5):2006	10 Cycle	es, 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,	0.55, Min Conforms		
Frost Resistance	IS 13630 (Part 10):2006	Requi	ired	Resistance	
Chemical Properties					
Resistance to staining of Glazed Tiles		Class I	Min	Min. Class-1	
Resistance to Household Chemicals	IS 13630 (Part 8):2006	Class A	A, 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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