SOMANY
TEMP SHIELD
THE COOLEST ROOF TILES

300X300MM

ENJOY THE UNBEATABLE EDGE

- Effectively reduce temperature of surface (By10 to 20 degree Celsius) there by making inside room cooler.
- Saves big on electricity by lowering energy demand.
- Fights against UHIE "Urban Heat Island Effect" due to its high reflectance of sunlight &heat.
- Protects your building from damage due to high heat conduction.
- Meeting guidelines set by IS standards / IGBC & CPWD for energy efficient roof.
- Our Temp Shield tiles comes with Ceramic Body which makes it long lasting.

WIDE APPLICATION POSSIBILITIES

- Roof / Terraces
- Balconies
- Courtyards
- Swimming Pools



UNIT - III

IS:15622:2006 CM/L 9829610

TECHNICAL SPECIFICATION FOR TEMP SHIELD COOL TILES

NOMINAL SIZE (MM)	THICKNESS (MM)	NO OF TILES/ BOX	AVERAGE WEIGHT (KG)	COVERAGE AREA PER BOX (SQM)
300X300 MM	10.00	8	11.80	0.72 Sq. mtr / 7.750 Sq. ft.

CHARACTERISTICS	Requirement as per IS 15622 :2017 E>10, Group BIII	Requirement as per ISO 13006 E>10, Group BIII	OUR VALUES	TEST METHOD
Dimension & Surface Quality				
Length & Width	± 0.20%	± 0.50%	± 0.1%	IS 13630 Part 1/ ISO 10545-2
Thickness	± 5.00%	±10.0%	± 4.0%	
Straightness of Side	± 0.15%	± 0.30%	± 0.1%	
Rectengularity	± 0.20%	±0.50%	± 0.2%	
Surface Flatness				
Center Curvature (%) (max.Deviation)	± 0.30%	+0.5% / -0.3%	± 0.22 %	
Edge Curvature (%) (max.Deviation)	± 0.30%	+0.5% / -0.3%	± 0.22 %	
Corner Warpage (%) (max.Deviation)	±0.30%	±0.5%	± 0.22 %	
Surface Quality	Min. 95 % of tiles will be free from visible defects	Min. 95 % of tiles will be free from visible defects	Min. 95 % of tiles will be free from visible defects	
Physical Properties				
Water Absorption	E ≥ 10 % when it exceeds 20 % this shall be indecated by the manufacturer	E ≥ 10 % when it exceeds 20 % this shall be indecated by the manufacturer	Av 10-20%	IS 13630 Part 2/ ISO 10545-3
Modulus of Rupture [N/mm2]	Min 15	Average Min 15	Average 15	IS 13630 Part 6/ ISO 10545-4
Breaking Strength in N	Min 600	Not Less Than 600	Min 600	
Moisture Expansion in mm/m	0.04	Test Method Available	0.04	IS 13630 Part 3/ ISO-10545-10
Scratch Hardness of Surface (Mohs)	Min 3		Min-3	IS 13630 Part 13
Coefficient of Linear Thermal Expansion from Embiant Temperature To 100 ºC	9X 10 $^{-6}$ K^{-1} Max	Test Method Available	Max 8 X 10 $^{-6}$ K^{-1} Max	IS 13630 Part 4/ ISO 10545-8
Thermal Shock Resistance	10 Cycle min	Test Method Available	10 Cycle Min	IS 13630 Part 5/ ISO-10545-9
Crazing Resistance	4 Cycle @ 7.5 Bar min	Required	4 Cycle @ 7.5 Bar min	IS 13630 Part 9/ ISO 10545-11
Chemical Resistance				
Stain Resistance	Min Class 1	Min Class 3	Class-1	IS 13630 Part 8 & ISO 10545-14
Resistance to Household Chemicals	Min Class AA	Minimum GB	Class AA	IS 13630 Part 8/ ISO 10545-13
Resistance to Acids and Alkalis (with exception of hydrofluoric acid and its compounds)	Required if Agreed	Test Method Available	Class AA	

The reproduction of tiles in this catalogue is restricted to four color printing only and tiles are not in relative sizes, therefore customers are advised to see the physical sample before placing the order. " Technical Specification" for Somany wall & floor tiles are applicable only for premium quality tiles. Please inspect all tiles prior to installation. Company will not entertain complaints once tiles are laid/fixed. Complaints will not be entertained for Borders, Highlighters & Motifs.

SOMANY

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Toll Free No. 1800-103-0004 (Timing-10:00am to 6:30pm; Mon-Fri)

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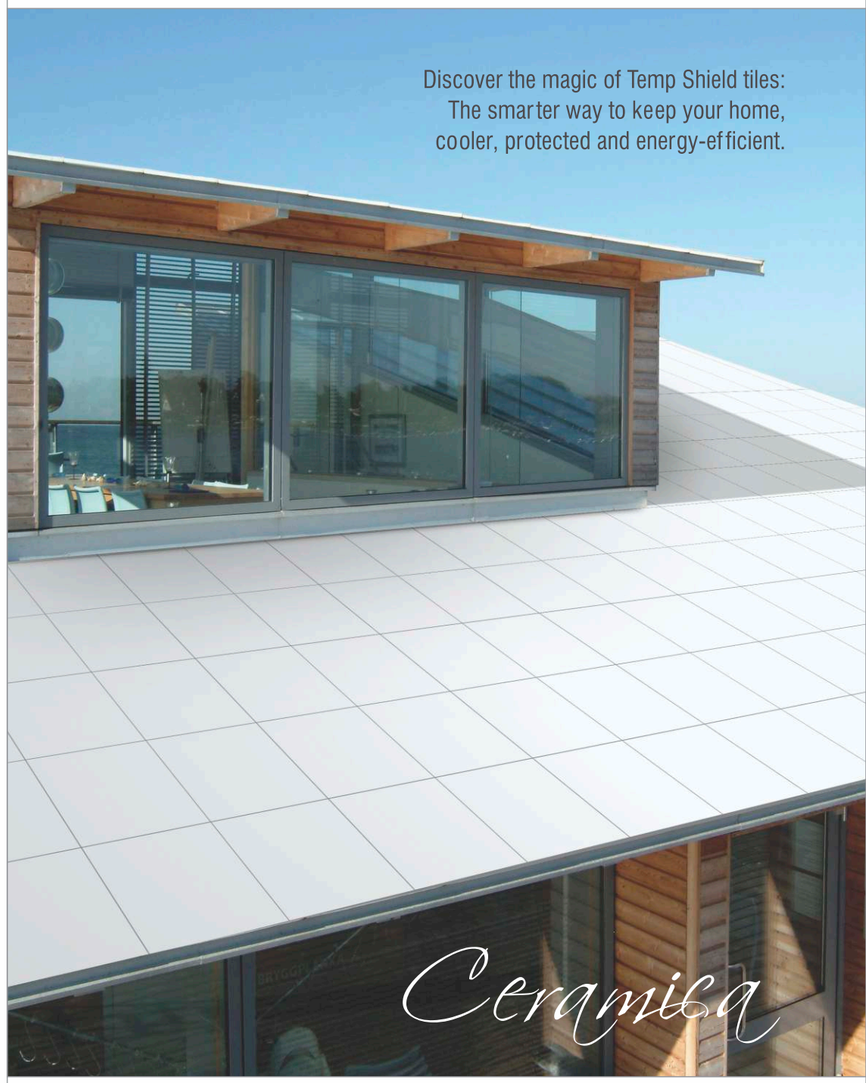
CERAMIC / CAT / MAY-2019

SOMANY
TEMP SHIELD
THE COOLEST ROOF TILES

300X300mm



NEXT-EDGE COOL
FOR NEXT GEN LIVING

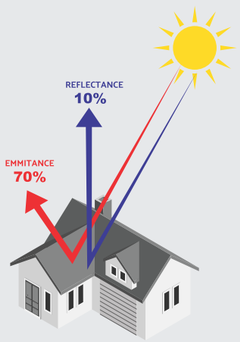
SOMANY
TEMP SHIELD
THE COOLEST ROOF TILES

300X300MM

COOL WHITE 300x300mm

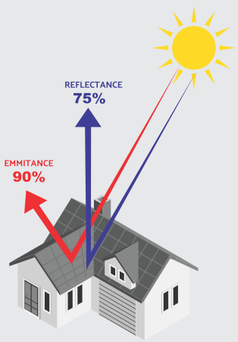
WIDE APPLICATION POSSIBILITIES

Roof/Terraces | Balconies | Courtyards | Swimming Pools



ORDINARY ROOF

DIFFERENCE BETWEEN
ORDINARY TILE & TEMP SHIELD TILES



ROOF HAVING
TEMP SHIELD TILES ROOF



TEST REPORT FOR
SOLAR REFLECTANCE INDEX (SRI)

CEPT UNIVERSITY

CEPT Research and Development Foundation, CEPT University
Test Report for Solar Reflectance Index (SRI)

ULR-TC702019000000054F

Report No: CRDF/RPT/SRI/412 Report Date: 12th February 2019

Report of test carried out by CEPT Research and Development Foundation for Solar Reflectance Index of Supplied Material

The test results of the specimen submitted for Solar Reflectance Index on date 06th February 2019 are as under:

1. Customer Information

1.1. **Name of the Organization** : Somany Ceramics Limited
1.2. **Contact Person** : Mr. Ramautar Singh
1.3. **Address** : Somany Ceramics Limited, Nr. Sungloss Ceramic Industries, N.H 8-A, Opp. Lalpar Billage, Morbi-Wankaner Highway, Lalpar, Morbi-363642 (Gujarat).
1.4. **Phone Numbers** : 9227977543 / 9687026149
1.5. **Fax Number** : Not Available
1.6. **Email** : spc.express@somanyceramics.com

2. Sample Details

2.1. Sample Identification Number : SRI/02/19/1413
2.2 Date of Test : 11th February 2019
2.3 Name and any other pertinent Identification of the material (including physical description): White Ceramic Tiles
2.4 Thickness of the specimen (Reported) : 10 mm
2.5 Thickness as tested : Not Applicable
2.6 Condition of Sample when received : Satisfactory
2.7 Method and Environment used for conditioning (if used) : Not Applicable
2.8 No. of Surfaces : Not Applicable
2.9 The type of surfaces : Not Applicable
2.10 Position of panes (if Multiple Glazed) : Not Applicable
2.11 The position of coating(s) designating faces of the panes as 1, 2 , 3 starting from the outer surface of pane 1: Not Applicable
2.12 The face of the panes (if Coated) : Not Applicable
2.13 Instrument used : Spectrophotometer with integrating sphere with reference material Spectralone & FTIR with IR specular reflection set.
2.14 Boundary Conditions (Test Method) : ASTM E 1980-11, EN 12898:2001, EN 673:2011, and EN 410:2011.

Jigar Patel
Lab. Supervisor

Yashkumar Shukla
Technical Director

CEPT Research and 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

CEPT UNIVERSITY

CEPT Research and Development Foundation, CEPT University
Test Report for Solar Reflectance Index (SRI)

ULR-TC702019000000054F

Report No: CRDF/RPT/SRI/412 Report Date: 12th February 2019

3. Results of the measurement:

Solar Direct Reflectance

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
White Ceramic Tiles	SRI/02/19/1413	0.8120	0.8106	0.8102	0.8109

Emissivity

Sample name	Sample ID	Measurement 1	Measurement 2	Measurement 3	Average
White Ceramic Tiles	SRI/02/19/1413	0.933	0.933	0.931	0.932

Solar Reflectance Index (SRI) under different wind conditions

Sample name	Sample ID	Solar Reflectance Index (SRI)		
		Low Wind(h_c=5 W m^{-2} K^{-1})	Medium Wind(h_c=12 W m^{-2} K^{-1})	High Wind(h_c=30 W m^{-2} K^{-1})
White Ceramic Tiles	SRI/02/19/1413	102	102	102

Surface Temperature (T_s) under different wind conditions

Sample name	Sample ID	Surface Temperature (°C)		
		Low Wind(h_c=5 W m^{-2} K^{-1})	Medium Wind(h_c=12 W m^{-2} K^{-1})	High Wind(h_c=30 W m^{-2} K^{-1})
White Ceramic Tiles	SRI/02/19/1413	47.9	43.8	40.4

4. 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.

Jigar Patel
Lab. Supervisor

Yashkumar Shukla
Technical Director

Disclaimer:

1. *The CEPT Research and Development Foundation, CEPT University 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.*
2. *Result relates to the sample tested only. Sample will be destroyed after 7 days of issue of the report unless specified by the customer.*
3. *Any complains about this report should be communicated in writing within 7 days of issue of the report.*
4. *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 and Development Foundation, CEPT University.*

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