

TEST REPORT FOR SOLAR REFLECTANCE INDEX (SRI)

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

Report No: CRDF/RPT/SRI/540 Report Date: 04th November 2020

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 30th October 2020 are as under:

1. Customer Information

i. Name of the Organization : Somany Ceramics Ltd.

ii. Contact Person : Mr. R. P. Mishra

iii. Address : Somany Ceramics Ltd., Kattar, Bahadurganj, 124307, Haryana

iv. Phone Numbers : 981248148

v. Fax Number : Not Applicable

vi. Email : crdftesting@somanyceramics.com

2. Photometry Testing

2.1. Glazing Materials

2.1.1. Sample Details

i. Sample Identification Number : SRI11201541

ii. Date of Test : 03rd November 2020

iii. Name and any other pertinent identification of the material (including physical description) : COOL WHITE

iv. Thickness of the specimen (As declared by customer) : 10 mm

v. Thickness as tested : Not Applicable

vi. Condition of Sample when received : Sanitary

vii. Method and Environment used for Conditioning (if used) : Not Applicable

viii. Condition used for laboratory testing And weathering (if used) : Not Applicable

ix. Description of testing machine (If laboratory testing and Weathering used) : Not Applicable

x. Instrument used : Spectrophotometer with integrating sphere with reference material Spectralon & FTIR with IR specular reflection cell

xi. Boundary Conditions (Test Method) : ASTM E 1956-15, EN 12458-2015, EN 672011, and EN 410-2011

N. D. Bhargava
N.D. Bhargava
Lab. Technician

Yash Kumar Shukla
Yash Kumar Shukla
Technical Director

CEPT Research & Development Foundation, CEPT University, K. L. Campus, Naranga, Ahmedabad - 380 015
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300X300MM

UNIT - I



TECHNICAL SPECIFICATION FOR COOL TILES

NOMINAL SIZE [MM]	THICKNESS [MM]	NO OF TILES/ BOX	AVERAGE WEIGHT [KG]	COVERAGE AREA PER BOX [SQM]
300X300	10.00	8	12.50	0.72 Sq. mtr / 7,750 Sq. ft.

CHARACTERISTICS	Requirements as per IS 15622:2017 Table-5 E >10, Group B III	Requirements as per ISO 13006:2018 E>10, Group B III	OUR VALUES	TEST METHOD
Dimension & Surface Quality				
Length & Width	± 0.20%	± 0.30%	±0.10%	IS 13630 Part 1/ ISO 10545-2
Thickness	± 5.00%	±10.0%	± 4.0%	
Straightness of Side	± 0.15%	± 0.30%	± 0.15%	
Rectangularity	± 0.20%	± 0.30%	± 0.20%	
Surface Flatness Max Deviation in %				
Center curvature related to diagonal	± 0.30%	±0.4%	± 0.22 %	
Edge curvature related to corresponding side	± 0.30%	±0.4%	± 0.22 %	IS 13630 Part 2/ ISO 10545-3
Warpage related to diagonal	±0.30%	±0.4%	± 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 indicated by the manufacturer	E ≥ 10 % when it exceeds 20 % this shall be indicated by the manufacturer	14±3 %	IS 13630 Part 2/ ISO 10545-3
Modulus of Rupture [N/mm2]	Average Min 15	Average Min 15	Average 18	IS 13630 Part 6/ ISO 10545-4
Breaking Strength in N i) ≤ 7.5 mm Thickness ii) >7.5 mm Thickness	i) 200 ii) 600	Not Less Than 600	Min-650	
Moisture Expansion in mm/m	0.04	No mention	0.04	IS 13630 Part 3/ ISO-10545-10
Scratch Hardness of Surface (Mohs)	Min 3	Min 3	Min-3	IS 13630 Part 13
Coefficient of Linear Thermal Expansion from Ambient Temperature To 100 °C	9X 10 ⁻⁶ K ⁻¹ Max		Max 8 X 10 ⁻⁶ K ⁻¹ Max	IS 13630 Part 4/ ISO 10545-8
Thermal Shock Resistance	10 Cycle min	10 Cycle min	Passed 10 Cycle	IS 13630 Part 5/ ISO-10545-9
Crazing Resistance	4 Cycle @ 7.5 Bar min	Manufacturer to Declared	Passed 4 Cycle	IS 13630 Part 9/ ISO 10545-11
Chemical Resistance				
Stain Resistance	Min Class 1	Min Class 3	Min Class 1	IS 13630 Part 8 & ISO 10545-14 / ISO 10545-13
Resistance to Household Chemicals	Min Class AA	Minimum GB	Min Class AA	
Resistance to Acids and Alkalits (with exception of hydrofluoric acid and its compounds)	Required if Agreed	Test Method Available	Min 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

Somany Ceramics Limited : Noida: F-36, Sector-6; Ph.: 0120-4627900.

Ahmedabad: Office no. 7-14, 4th Floor, Aggarwal Mall, Opp. Sola Bhagwat Vidyapeeth, S.G. Road, Sola, Ph.: 079-66042500 to 599

Registered office: 2, Red Cross Place, Kolkata - 700001; Ph.(033) 22487406/5913

www.somanyceramics.com | e-mail marketing@somanyceramics.com

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



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SOMANY
Tiles | Bathware

ZAMEEN SE JUDEY

COOL TILES

Discover the magic of Cool Tile:
The smarter way to keep your home,
cooler, protected and energy-efficient.



Ceramika
300X300mm

UNIT - I

NEXT-EDGE COOL
FOR NEXT GEN LIVING

COOL TILES



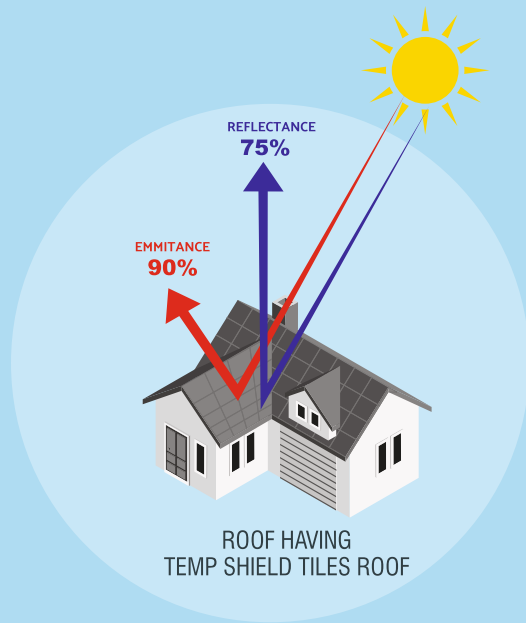
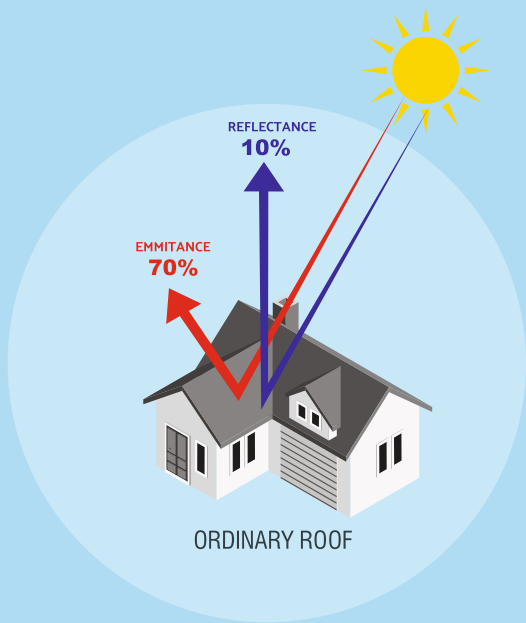
ENJOY THE UNBEATABLE EDGE

- Effectively reduce temperature of surface (By 15 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.



COOL WHITE 300x300mm

DIFFERENCE BETWEEN
ORDINARY TILE & COOL TILE



WIDE APPLICATION POSSIBILITIES



•Roof / Terraces



•Balconies



•Courtyards



•Swimming Pools

300X300MM