# TEST REPORT FOR SOLAR REFLECTANCE INDEX (SRI)









### TECHNICAL SPECIFICATION FOR TEMP SHIELD COOL TILES

NOMINAL SIZE	THICKNESS	NO OF TILES/	AVERAGE WEIGHT (KG)	COVERAGE AREA	
(MM)	(MM)	BOX		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	Requirement as per ISO 13006 E>10	OUR VALUES	TEST METHOD	
Dimension & Surface Quality					
Length & Width	± 0.20%	± 0.50%	± 0.1%		
Thickness	± 5.00%	±10.0%	± 4.0%		
Straightness of Side	± 0.15%	± 0.30%	± 0.1%		
Rectengularity	± 0.20%	±0.50%	± 0.2%	IS 13630 Part 1/ ISO 10545-2	
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/	
Breaking Strength in N	Min 600	Not Less Than 600	Min 600	ISO 10545-4	
Moisture Expansion in mm/m	0.04	Test Method Available	0.04	IS 13630 Part 3/	
Scratch Hardness of Surface (Mohs)	Min 3		Min-3	IS 13630 Part 13	
Coefficient of Linear Thermal Expansion from Embiant Temperature To 100 °C	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		
Resistance to Acids and Alkalis (with exception of hydrofluoric acid and its compounds)	Required if Agreed	Test Method Available	Class AA	IS 13630 Part 8/ ISO 10545-13	



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# WIDE APPLICATION POSSIBILITIES









Roof / Terraces

Balconies

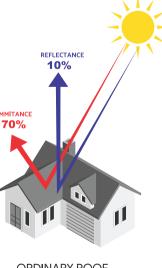
Courtyards

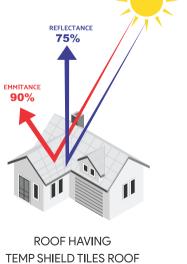
Swimming Pools

# 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.

# DIFFERENCE BETWEEN ORDINARY TILE & TEMP SHIELD TILES





ORDINARY ROOF