

TEST REPORT FOR SOLAR REFLECTANCE INDEX (SRI)

UNIT - I



300X300MM

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%	
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 %				IS 13630 Part 1/ ISO 10545-2
Center curvature related to diagonal	± 0.30%	± 0.4%	± 0.22 %	
Edge curvature related to corresponding side	± 0.30%	± 0.4%	± 0.22 %	
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/mm ²)	Average Min 15	Average Min 15	Average 18	
Breaking Strength in N (i) 5 x 7.5 mm Thickness (ii) >7.5 mm Thickness	≥ 200 ≥ 600	Not Less Than 600	Min-650	IS 13630 Part 4/ ISO 10545-4
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	
Resistance to Household Chemicals (with exception of hydrofluoric acid and its compounds)	Min Class AA	Minimum GB	Min Class AA	IS 13630 Part 8 & ISO 10545-14 / ISO 10545-13
Resistance to Acids and Alkalis	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

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COOL TILES

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

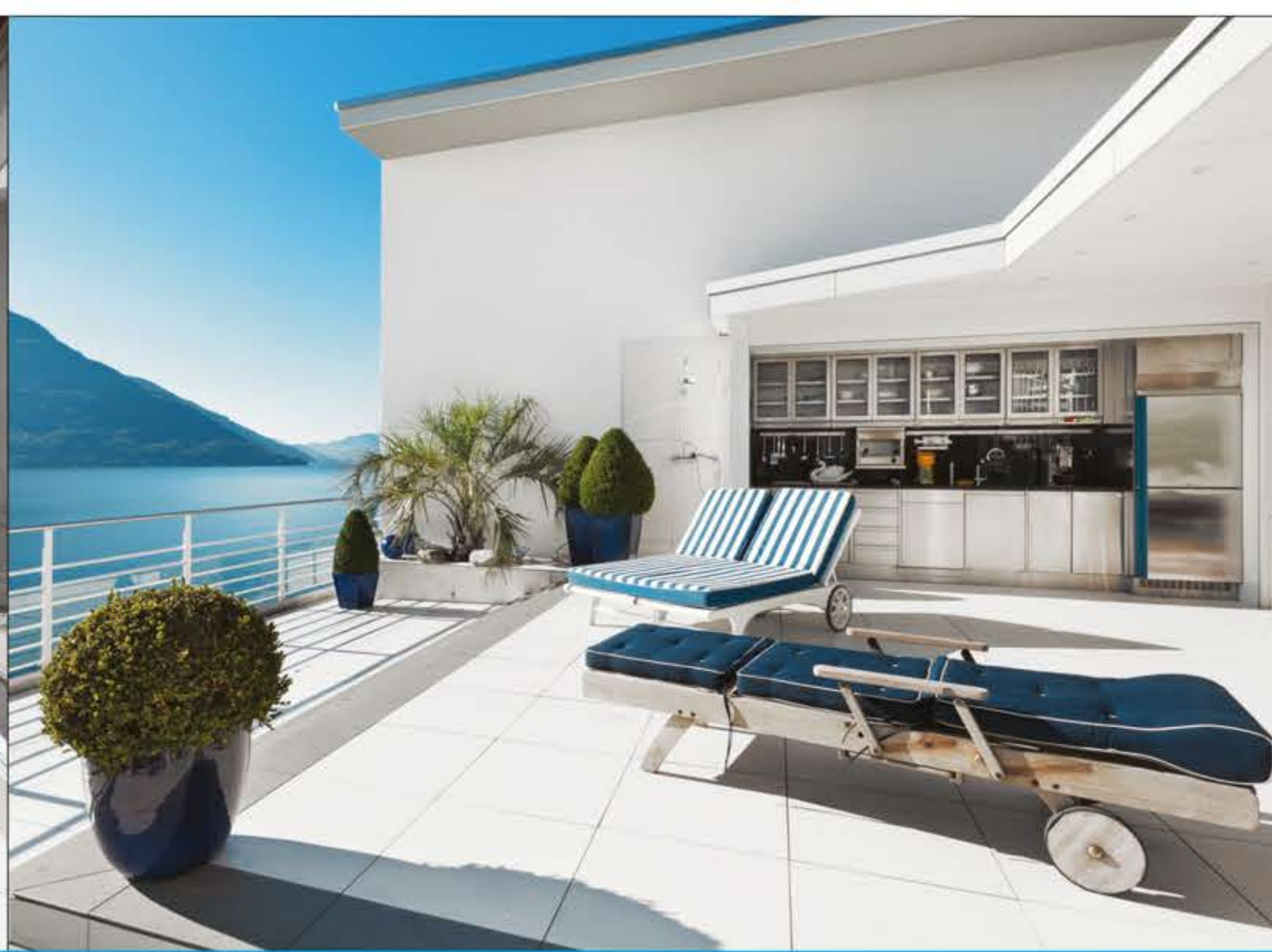


Ceramika
 300X300mm

UNIT - I

NEXT-EDGE COOL
 FOR NEXT GEN LIVING

COOL TILES



ENJOY THE UNBEATABLE EDGE

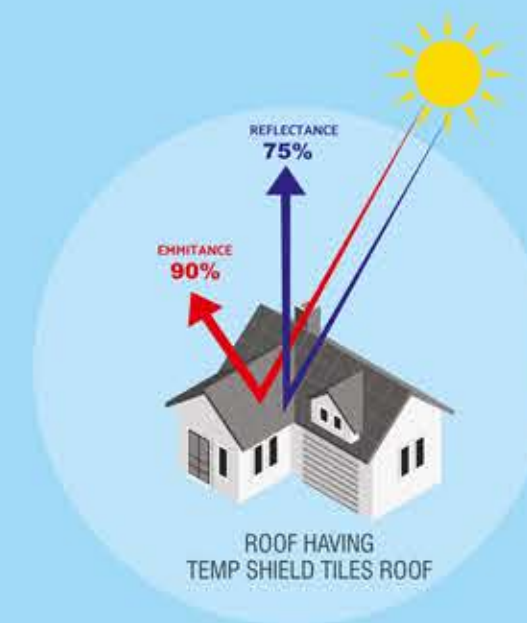
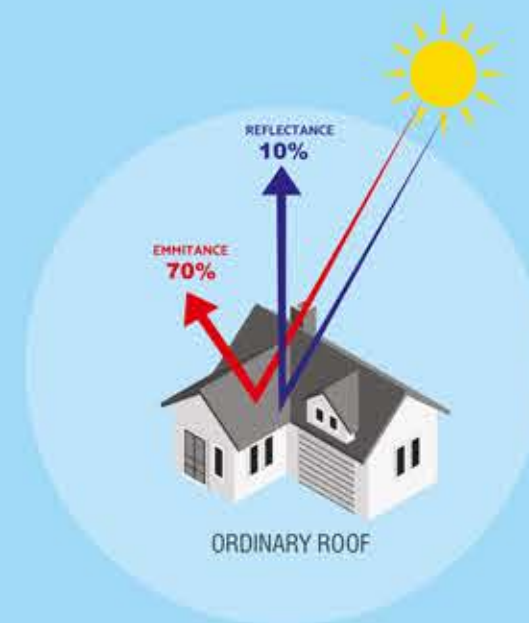
- Effectively reduce temperature of surface (By 15 to 20 degree Celsius) there by making inside room cooler.
- Saves big on electricity by lowering energy demand.
- Fights against UHIE "Urban Heat Island Effect" due to its high reflectance of sunlight & heat.
- Protects your building from damage due 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