

NITCO

TILES MARBLE MOSAICO

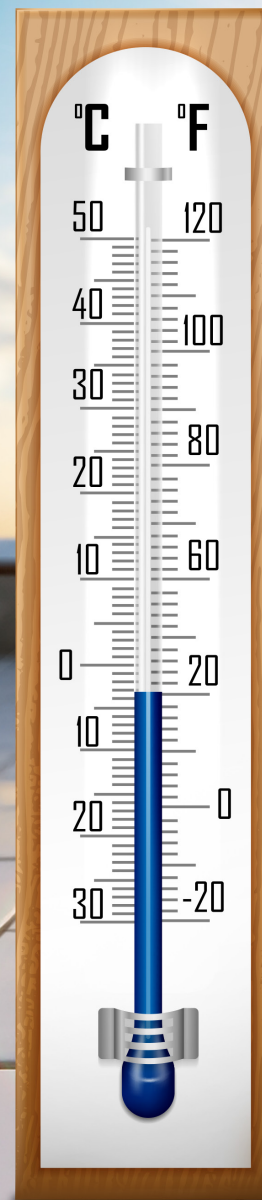
REFLECTO SERIES

Cool Tiles

Keeps your spaces cooler

300X300 mm, 600x600 mm
& 600x1200 mm

Up to 20mm available for special requirements



Scan for Website

NITCO LIMITED

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Nominal Size 300x300 mm

Transform Your Space with **Reflecto Cool Tiles**

Enhance your spaces with **Reflecto Cool Tiles**, where elegance meets functionality. These **cool tiles** are designed to add a touch of sophistication to any space while helping keep interiors naturally cool, making them the perfect choice for modern homes and commercial projects.

Key Features

Superior Quality: Crafted with premium materials for long-lasting durability.

Temperature Regulation: Keeps spaces cooler, reducing energy costs during warmer months.

Easy Maintenance: Simple to clean, ensuring they look pristine for years.

Perfect for **Swimming deck areas, Religious spaces, Open balconies, Garden areas, External walls, and Facades**, Reflecto White Tile offers unmatched style and versatility for any application. Make the smart choice for a sleek, refreshing, and long-lasting exterior

Reflecto White

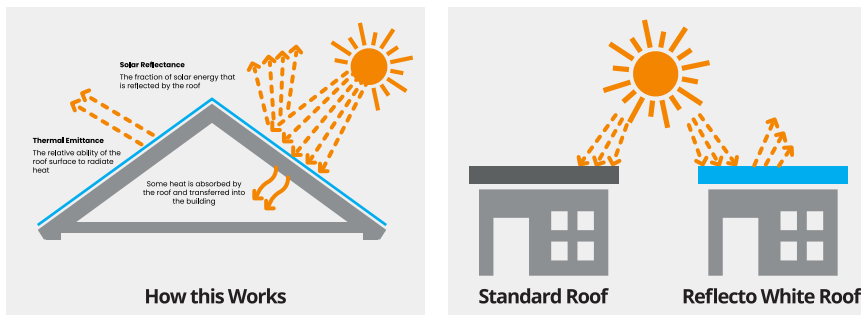
Important Information about Reflecto White

What's So Cool About Reflecto White?

Reflecto White can be specified by architects to save energy, satisfy building codes and meet client expectations for comfort, cost and aesthetics. It can be applied to virtually any building or roof slope in any location. It is intuitive that the extent of the benefits will correlate to the building's location, type and use, as well as to the specific radiative properties of the selected roofing product. However, what may be counter intuitive is the broad range of locations in which these are proving to be a viable energy efficiency measure. Simply put, Reflecto White is a roofing products that integrates materials with greater spectral reflectance than their traditional. This Product can also be applied in Swimming Pool Deck, External Wall Cladding & Facade, Open Balconies, Religious Open Pedestrian pathways and Garden.

Technology

The two radiative properties that characterize Reflecto White are solar reflectance and thermal emittance (see Figure Below).



A cool roof minimizes the solar heat gain of a building by first reflecting incoming radiation and then by quickly re-emitting the remaining absorbed portion. As a result, the roof stays cooler than a traditional roof of similar construction.

The Solar Reflectance Index (SRI). SRI allows actual measured solar reflectance and thermal emittance values to be combined into a single value by determining how hot a surface would get relative to standard black and standard white surfaces. The standard black roofing material has a high emittance value but a low reflectance value. This creates a hot roof surface because even though the emittance is high, there isn't enough reflectance to help cool the roof. As such, the standard black roof is given an SRI value of 0. The standard white roofing material is highly reflective (min. 78 percent) and has the same emittance as the standard black surface (90 percent). Its surface is much cooler and the standard white roof is assigned an SRI value of 100. Like solar reflectance and thermal emittance, a higher SRI value is synonymous with a cooler roof.

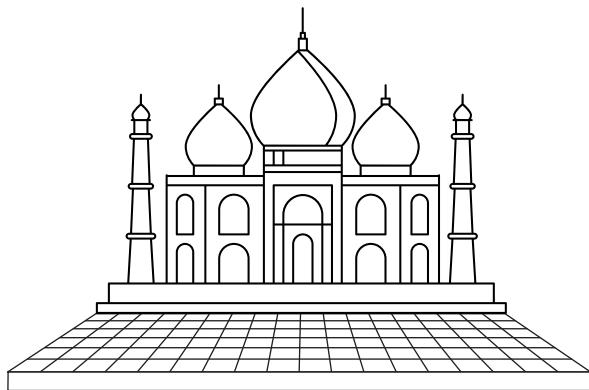
Cool Roofs Equate to Big Benefits to the Owner and the Environment

When properly installed and maintained, NITCO Reflecto White provides numerous benefits that contribute to the health of a community, to the occupants of the building and to the owner's pocket book. Among the benefits to the building occupants and owner are:

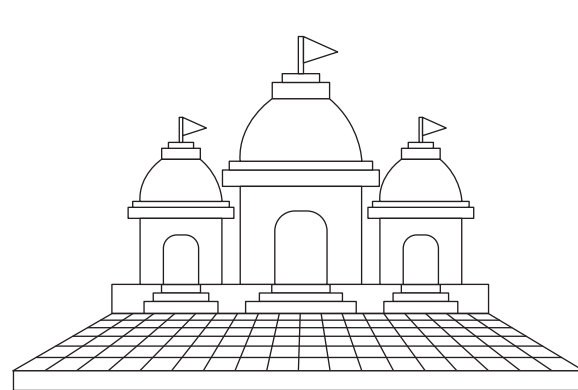
- **Improved comfort** because the building's interior is subject to less thermal flux and stays cooler during the warm season.
- **Reduced energy costs** because of reduced air-conditioning. It is observed that by virtue of these tiles we can save 40 % of the Energy.
- **Longer AC unit life** resulting from decreased air-conditioning loads.
- **Increased roof longevity** due to reduced thermal flux.

Applications

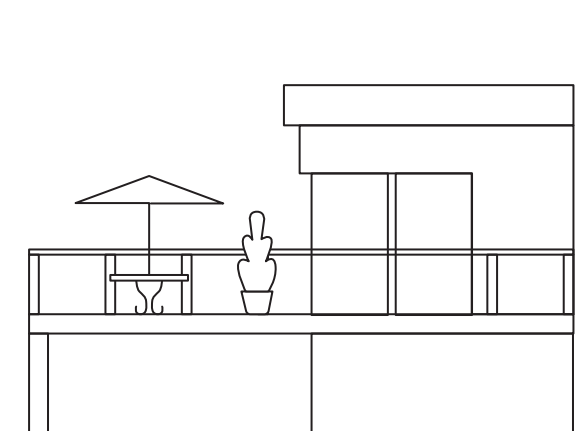
Mosque Area



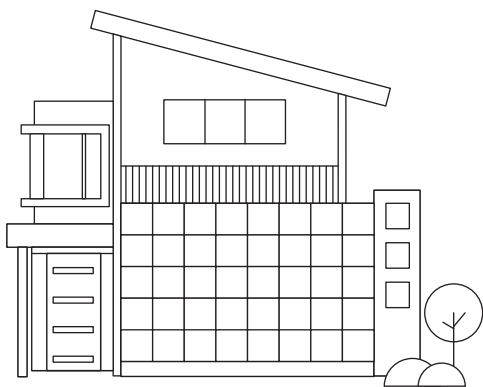
Mandir Area



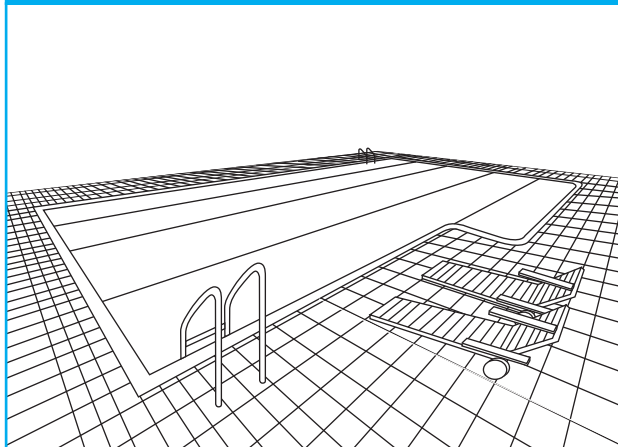
Open Balconies Area



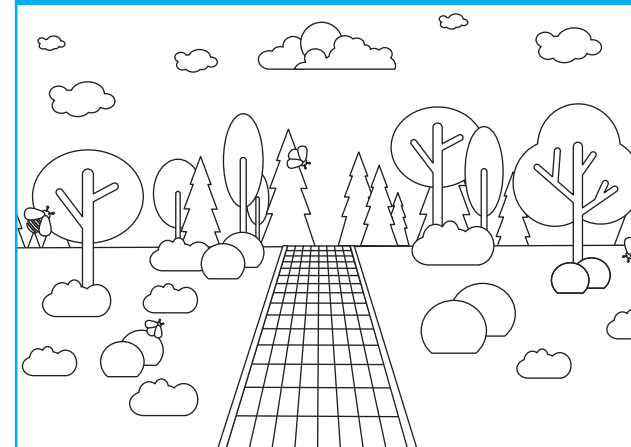
External Wall & Facade Area



Swimming Deck Area



Garden Area



Technical Specifications - Reflecto Series Cool Tiles, 298x298x20 mm.

Sr. No	Characteristics	Test Method	Test Requirements	Nitco Values
1	Dimension (Length & Width)	ISO 10545 – 2	± 0.3%	± 0.10%
2	Thickness	ISO 10545 – 2	± 5.0%	± 5.0%
3	Straightness (%)	ISO 10545 – 2	± 0.3%	± 0.10%
4	Rectangularity (%)	ISO 10545 – 2	± 0.3%	± 0.10%
5	Surface flatness			
	Centre Curvature	ISO 10545 – 2	± 0.4%	± 0.20%
	Edge Curvature	ISO 10545 – 2	± 0.4%	± 0.20%
	Warpage	ISO 10545 – 2	± 0.4%	± 0.20%
6	Surface Quality	ISO 10545 – 2	Min. 95% free from visible defects	> 95% free from visible defects
7	Water Absorption	ISO 10545-3	Avg.≤ 0.5,	< 0.08 %
8	Modulus Of Rupture (N/mm²)	ISO 10545-3	Min 35 N/mm², Ind. Min 32 N N/mm²	> 35 N/mm²
9	Surface Abrasion Resistance	ISO 10545 – 7	Report Abrasion Class and Cycle Passed	PEI III for Glossy PEI IV for Matt
10	Thermal Shock Resistance	ISO 10545 – 9	Test method available	Required
11	Chemical Resistance			
	Resistance to low concentrations of Acid & Alkalies	ISO 10545-13	Manufacturer to state classification	GLB
	Resistance to High Concentrations of Acid & Alkalies	ISO 10545-13	Test method available	GHB
	Resistance to Household chemicals and Salts.	ISO 10545-13	Minimum B	GB
12	Resistance to Stains	ISO 10545 -14	Min Class 3	Min Class 4

Packing Details

Dimensions	Tiles / Box	Coverage Area/Box	
		Sq. Mtrs.	Sq. ft.
298mmx298mmx20mm	2	0.72	7.75

Technical Specifications - Reflecto Series Cool Tiles, 600X600 mm.

Sr. No	Characteristics	Test Method	Requirement as per IS 15622 : 2017 (Group B IIa - Rectified)	Nitco Values
1	Length and Width	IS 13630 Part 1	± 0.1%	± 0.1%
2	Thickness	IS 13630 Part 1	± 5.0%	± 5.0%
3	Straightness of sides	IS 13630 Part 1	± 0.1%	± 0.1%
4	Rectangularity	IS 13630 Part 1	± 0.1%	± 0.1%
5	Surface flatness			
	Centre Curvature	IS 13630 Part 1	± 0.5%	± 0.20%
	Edge Curvature	IS 13630 Part 1	± 0.5%	± 0.20%
	Warpage	IS 13630 Part 1	± 0.5%	± 0.20%
6	Surface Quality	IS 13630 Part 1	> 95% free from visible defects	> 95% free from visible defects
7	Water Absorption	IS 13630 Part 2	3% < E ≤ 6%	3-6%
8	Breaking Strength, N	IS 13630 Part 6	Thick ≥7.5mm, Min1000N, Thick <7.5mm, Min 600 N	> 1000 N
9	Modulus of Rupture (MOR), N/mm²	IS 13630 Part 6	Avg. 22N/mm2, Ind.Min.20	> 30
10	Abrasion Resistance (PEI III, IV, V)	IS 13630 Part 11	Class II Min	Class IV
11	Thermal Shock Resistance	IS 13630 Part 5	10 Cycle Min	Resistant
12	Crazing Resistance	IS 13630 Part 9	4 Cycle with 7.5 bar	Resistant
13	Resistance to Stains	IS 13630 Part 8	Class 1, Min	Class 1
14	Resistance to Acids, Alkalies and Chemicals (Except HF Acid)	IS 13630 Part 8	Class AA, Min	Class AA
15	Moisture Expansion	IS 13630 Part 3	< 0.03	< 0.03
16	Scratch Hardness	IS13630 Part 13	> 4	> 4
17	Coefficient of Linear Thermal Expansion 1/K	IS13630 Part 4	<9 X 10 ⁻⁶ , Max	<9 X 10 ⁻⁶
18	Coefficient of Friction - Tiles intended for use on floor.	Pendulum Test	Where required Manufacture to declare value	PTV value > 20 in wet condition
19	Solar Reflective Index Value (SRI)	ASTM E1980	Standard as Per LEED 2.0 is >78	>78

Packing Details

Dimensions	Tiles / Box	Coverage Area/Box	
		Sq. Mtrs.	Sq. ft.
600mm x 600mm	4	1.44	15.50
600mm x 1200mm	2	1.44	15.50

The reproduction of tiles in this catalogue is restricted to four colour printing only and tiles are not relative in sizes. Conforming to ISO requirements, technical specifications of NITCO tiles are applicable only for first grade/first quality wall tiles. Please inspect all tiles prior to installation. Company will not entertain complaints once tiles are laid/fixed. Price category & PEI grade may change without any notice. Customer are advised to confirm it before placing order.