

Roofing System Components



BMI MONIER

Improving the functional performance of your roof

www.monier.in

About BMI MONIER

BMI India is part of BMI Group, the largest roofing and waterproofing company in Europe, with a significant presence in Asia and Africa. We bring together some of the biggest and most trusted names in the industry such as BMI Monier.

Monier Roofing India is the leading manufacturer of pitched roofing systems in India, and was established in India in 1997. We offer a range of concrete roof tiles, glazed and matt finished imported clay roof tiles, fittings and roof components; specifically designed for the Indian roof market. With state-of-the-art manufacturing facilities in Bangalore and Nashik, some of its leading products manufactured in India have changed the architectural landscape of India over the years.

We deliver innovative roofing systems designed to transform the way people live and work. Providing shelter, protection and peace of mind for architects, roofers, building and homeowners alike. Our dedicated experts assist with design and project solutions, technical advice and product information for both residential and non-residential projects.

WORLD - CLASS ROOF COMPONENTS

In order to complement and enhance the performance of its tiles, Monier offers an exclusive range of roof components. These components improve the performance of your roof in terms of aesthetics, water-tightness and heat reduction. Moreover, they enable the roofs to remain trouble free for years to come.

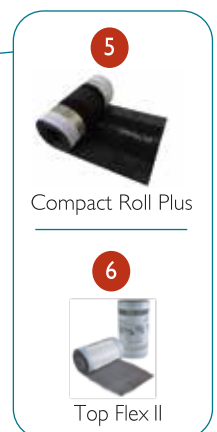
Fixing Accessories



Underlays



Ridge & Hip Solutions



Other Solutions



Abutment Solutions

UNDERLAYS

Underlays for Water-tightness



1) RAINSHIELD

Product Features:

- Cost effective alternate to conventional waterproofing
- Nail sealing property ensures nail holes are sealed
- UV resistant coating for longer life

Technical Details:

- Unique two layer construction: (a) UV resistant non-woven fabric with rubberised polymers and (b) Water resistant membrane
- Available roll size: 1.5 m x 50 m covering 75 sq m

Underlays for Heat Reflection



2) VELTISUN RadenShield™

Product Features:

- Dual benefit of 100% water-tightness and thermal insulation
- Highly tear resistant
- Easy-to-install

Technical Details:

- Structure of seven layer material: (a) Aluminium foil for heat reflection (b) Nail sealing layer for complete water-tightness (c) Poly propylene spunbond layer for better strength
- Total thickness 550 um +/- 10 um (um=micron)
- Available roll size: 1.5 m x 50 m covering 75 sq m



3) RADIANT BARRIER

Product Features:

- Reflects 97% heat radiation and maintains lower temperature beneath the roof
- Highly tear resistant
- Works as a secondary waterproofing layer below the tiles

Technical Details:

- Heat & UV reflecting underlay
- Aluminium coated Poly Ethylene (PE) woven fabric
- Top surface is coated with pure aluminium
- Available roll size: 1.25 m x 48 m covering 60 sq m



4) RADENSHIELD BUBBLE

Product Features:

- Dual side aluminium layer for better heat insulation
- Improved conductive and convective heat resistance
- Reflects 97% of heat radiation
- Highly tear resistant

Technical Details:

- Unique five layer construction with bubble carriers
- Scrim reinforced for higher tear resistance
- Available roll size: 1.22 m x 40 m covering 48.8 sq m
- Bubble size: 20 mm dia and thickness: 8 mm



VelTisun



Radiant Barrier



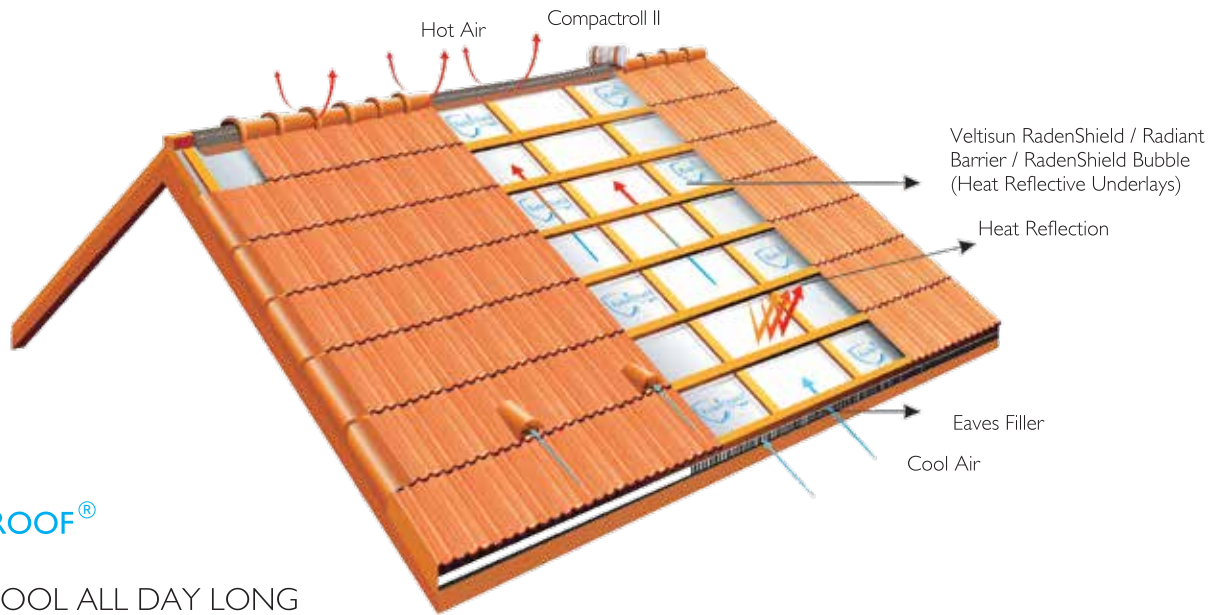
RadenShield Bubble



RainShield

SYSTEM THAT SAVES POWER AND PROTECTS THE ENVIRONMENT

Recent studies show that using Radiant Barrier / Veltisun (with other Monier fittings and components) reduces the room temperature by up to 10 degrees and helps you save on your air conditioning cost.



COOLROOF®

STAY COOL ALL DAY LONG

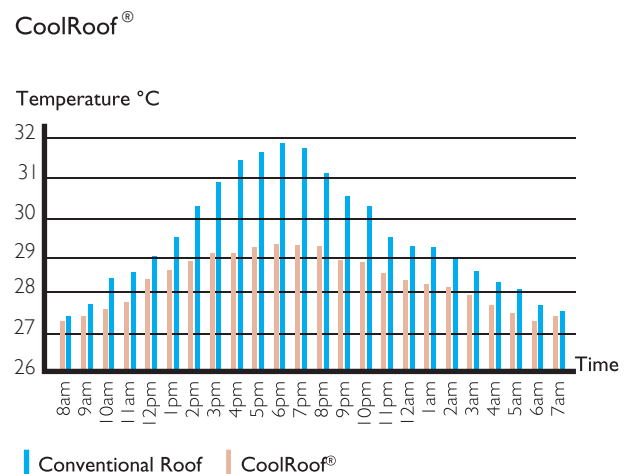
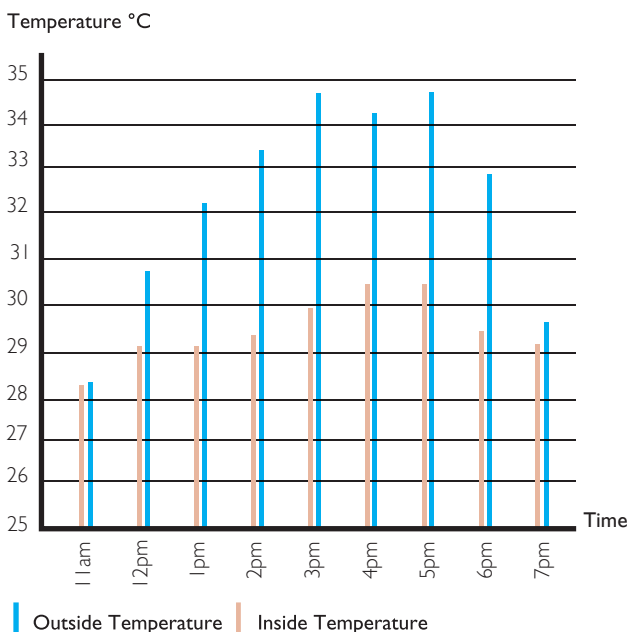
When installed with our CoolRoof® system, your home will stay cool all day long. Veltisun / Radiant Barrier reflects heat, thus maintaining a lower temperature. Compactroll II and eaves filler comb create a natural ventilation stream from eaves to hips and ridges, removing the hot air trapped beneath the roof tiles.

Ordinary roofs tend to store the heat during the day and emit it at night. This makes the house hotter during nights.

But in this roofing system, the Veltisun / Radiant Barrier reflects the heat and doesn't let the heat stay between the concrete deck and the roof. The result is a cooler home for you and your family.

Apart from reflecting heat, radiant barrier provides a water-tight system when used with Monier tiles.

* CoolRoof® is a complete system using Monier tiles and Monier roof components



RIDGE & HIP SOLUTIONS

Monier Ridge & Hip solutions are aimed at mortar free installation of roofing systems. Traditional wet fixing using cement mortar is susceptible to climate cycles resulting in eventual wear off of mortar blocks and results in leakages. Furthermore, Monier's solutions eliminate water absorption at the ridge and hip lines avoiding moisture which facilitates algae growth.



Algae formation on cement mortar



Algae preventive dry fixing



5) COMPACTROLL PLUS

Product Features:

- Provides ample ventilation, hot air exhaust and water-tightness at ridges and hips
- Increases aesthetics by avoiding the usage of mortar at the ridges and hips
- Easy-to-lay
- Compatible with CoolRoof

Technical Details:

- High performance butyl adhesive
- Highly durable and UV resistant
- Ventilation holes covered with fleece to prevent water entry
- Crep - Tech technology to improve stretchability
- Compatible with all roof tiles
- Available roll size: 10 m x 29,5 cm



6) TOP FLEX II

Product Features:

- Stretchable corrugated surface and special adhesive for matching profiled roofing materials
- UV resistant, thus improved product life
- Highly flame resistant
- 100% cement mortar free installation
- Compatible with all roof tiles

Technical Details:

- Available roll sizes: 5 m x 25 cm
- Butyl adhesive for strong and lasting installation
- Stretchability up to 50%



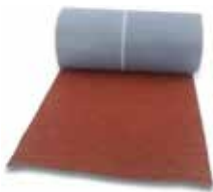
Top Flex II



Compactroll Plus

ABUTMENT SOLUTIONS

Monier offers a wide range of abutment flashing solutions for a water-tight and trouble-free roof. Monier recommends these products for areas where the tiles come in close proximity to walls, chimneys or other planar intersections.



7) WAKAFLEX

Product Features: • Premium abutment flashing solution • Ensures 100% water-tightness at abutments • Adds aesthetic value to your roof by avoiding the use of mortar and metal flashing roof materials • Easy-to-fix

Technical Details: • High performance butyl adhesive • Five layer laminate consisting of synthetic rubber based adhesive layer, poly isobutylene extrusion foil and aluminium reinforcement mesh • To be used with Wakastrip for better finish • Stretch factor - Lengthwise approx. 50% & Widthwise approx. 15% • Available roll size: 5 m x 28 cm

8) EASY FLASH

Product Features: • Value for money abutment flashing solution • Ensures water-tightness at abutments • Universal application on both clay and concrete roof tiles • UV resistant finish

Technical Details: • Coated aluminium, PET foil, PET fleece with full width high performance butyl adhesive on reverse side • Stretch ability up to 60% in roll direction • Temperature resistance up to 90°C • Available roll size: 25 cm x 5 m

9) CAMEL FLASH II

Product Features: • Economic abutment flashing solution • Universal application on clay and concrete tiles • Water-tight and extreme weather resistant • Flexible and stretchable • Self bonding on dry, dust and dirt-free surfaces • Durable UV resistant finish

Technical Details: • Aluminium composite surface with butyl adhesive • Stretch ability up to 50% in roll direction • Available roll size: 5 m x 28 cm

OTHER SOLUTIONS

Rain water channelling



10) RAINWATER GUTTER SYSTEMS

Product Features: • Modular in nature • Superior quality design made high quality uPVC • Available with complete range of fittings and accessories • Available in attractive colours

Technical Details: • Excellent volumetric capacity • Made of premium quality materials • Premium weatherproof coatings on surface for long life



Wakaflex



Easy Flash



Luxron Gutter



Red



Anthracite

Natural Light



FIXING ACCESSORIES



11) VALLEY SHEET

Product Features:

- Easy-to-install
- Ribbed to prevent water back-flow
- Prevents water leakage at valley regions
- Pre-fabricated bending lines (3 in nos) for easy onsite foldings

Technical Details:

- High quality aluminium bent valleys
- Can be folded on-site matching the roof angles without any tools
- Available size 1.2 m x 36 cm

12) TRANSLUCENT TILE

Product Features:

- Light transmissibility of 90-95%
- Energy saving (1 No. Translucent Tile is equivalent to 1 No. 75W bulb)
- Perfect integration on the roof with the Elabana/Plano tiles
- Ensures complete water-tightness
- Made of very strong material

Technical Details:

- Made of Poly Methyl Meta Acrylate (PMMA)
- High UV resistance, preventing whitening
- Comes with a set of screws and tile clips for installation
- Temperature resistance up to 80°C

13) TILE CLIP

Roof tile clips are used for securing the roof tiles at the valley areas in general and for all tiles on roofs in windy areas (eg: sea sides, high rise buildings, top of hills, etc).

14) RIDGE CLIP

Holds ridge tiles together during dry fixing of ridge tile on ridge & hip lines of roofs.

15) EAVES FILLER COMB

Prevents insect intrusion from the eaves, while maintaining proper air ventilation.

16) RIDGE TREE

Ridge tree provides support to ridge runner over which compact roll is laid on the ridges and the hips.

17) S-CLIP

S-clips are used for securing the roof tiles to the battens underneath it in high windy areas (eg: sea sides, high rise buildings, high altitude areas, etc).



Translucent Tile

Problem – RSC Solution Matrix

| Solution for | Underlays | | | | Abutment Solutions | | | Ridge & Hip Solutions | | Other Solutions | | | |
|------------------------------|-----------------|----------|------------|--------------------|--------------------|------------|----------------|-----------------------|----------|-----------------|--------------|-----------|----------------|
| | Radiant Barrier | Veltisun | RainShield | RadenShield Bubble | Wakaflex | Easy Flash | Camel Flash II | Compactroll II | Top Flex | Eaves Comb | Valley Sheet | Top Light | Gutter Systems |
| Water-tightness | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | |
| Algae Growth Prevention | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Heat Reduction & Ventilation | ✓ | ✓ | | ✓ | | | | ✓ | | ✓ | | | |
| Rodent Intrusion Prevention | | | | | | | | | | ✓ | | | |
| Natural Lighting | | | | | | | | | | | | ✓ | |
| Rainwater Management | | | | | | | | | | | ✓ | | ✓ |
| Aesthetics | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | ✓ |

Range of Roofing Tiles from Monier

Concrete Tiles



Elabana



Plano



Perspective

Imported Clay Tiles



Coppo Domus



Plana



Roman 12



Coloroof Plus 12



Flexa

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