

MetShield

High Temperature Waterproof Underlayment Membrane

DESCRIPTION:

MetShield Water and Ice protection is a sheet membrane underlayment specifically designed for high temperature application typically found under metal roof installation. MetShield is a 40 mil. SBS modified bitumen with a UV resistant anti-slip polyethylene woven top facer which will prevent water penetration from wind driven rain and water back up caused by ice or debris back up. MetShield is used specifically as a metal roof underlayment and is required under all warranted systems.

FEATURES AND BENEFITS:

High Temperature Formulation

MetShield will resist temperatures up to 250° without degradation of the adhesive.

Moisture and Air Barrier

MetShield protects the roof structure from water seepage caused by ice dams and wind driven rains.

Self Sealing

MetShield membranes seal around roofing nails, screws and clips used to install the primary roofing system.

Dual Barrier Protection

MetShield provides maximum water-proofing protection. The composite membrane consists of a SBS modified bitumen with a UV resistant anti-slip polyethylene woven top facer.

SPECIFICATIONS:

Roof decks to be protected from ice damage and wind driven water shall be covered with a self-adhering rubberized asphalt membrane with a non-skid polyethylene surface—**MetShield** High Temperature Waterproof Underlayment Membrane manufactured for **MetFab**. The material shall conform to the requirements of the test data listed.

Self Adhesive

MetShield membranes bond directly to the roof substrate for fast and easy installation without the need for any adhesives.

Skid Resistant

MetShield features unique skid-resistant surfaces for safe and easy installation.

Permanent protection and Low Life Cycle Cost

MetShield will not crack, dry out or rot resulting in long term waterproofing performance.

Aesthetically Pleasing

MetShield is a concealed waterproofing system, guaranteeing the architectural aesthetics of the primary roofing system.

TECHNICAL DATA

Physical Properties

Surface	White Film
Thickness	Min. 40 mils
Roll Size	3' x 66.7' (0.91m x 20.4m) (200 sq. ft. coverage)
Shipping Weight	39 lbs.
Rolls per pallet	36

PROPERTIES

Breaking Strength, MD/XD
Ultimate Elongation, MD/XD
Static Puncture
Lap Adhesion
Peel Strength
Tear Resistance, MD/XD
Maximum Service Temperature
Cold Bending

STANDARDS

ASTM D1970
ASTM D1970
ASTM D5602
ASTM D1876
ASTM D903
ASTM D5601
SHIELD HT
ASTM D1970

TYPICAL VALUES

64/88 lbf/in
52/24%
90 lbs
11.4 lbf/in
17.5 lbf/in
84/90 lbf
250°F
-22°

INSTALLATION

Full coverage of **MetShield** is recommended under architectural standing seam metal roof structures and for critical areas like eaves, ridges, valleys and dormers.

- Prepare the roof deck by removing all loose objects, dirt, dust or debris. With re-roofing applications, remove all old materials to the roof deck.
- **MetShield** should be directly installed over a roof deck composed of any of the following materials: plywood, wood plank, wood composites, rigid insulation, metal or gypsum board.
- Cut the membrane into lengths of 3-5m (10-15'), unroll, and lay flat on the roof surface. Then peel off release paper and apply to the roof deck. Press **MetShield** membrane in place.
- Ice Dam Protection: Apply **MetShield** up to the highest expected level of ice dams.
- Wind Driven Rain: Apply **MetShield** to the entire roof surface.
- Overlap end laps 15 cm (6") and side edges of membrane 9 cm (3.5"). **MetShield** membrane should not be folded onto an exposed area of the roof edge.
- Valley and Ridge Application: Remove the release paper and center **MetShield** over the valley or ridge. For valleys, work from the bottom upwards. Center the sheet over the valley or ridge and press into place.

APPLICATION INSTRUCTIONS

- Clean the roof deck by removing all loose objects, dirt, dust and any unnecessary protrusions. With re-roofing applications, remove all old materials down to the roof deck.
- Cut **MetShield** membrane to required length, unroll and lay flat on the roof area. Then peel off the release paper and apply to the roof deck. Overlap ends 15 cm (6") and side edges 9 cm (3.5").
- When applying **MetShield** to concrete, masonry, insulation, gypsum board and any surface where adhesion appears to be marginal, a latex based asphalt primer is required. The surface should first be primed and allowed to dry prior to the installation of **MetShield** membrane. Primed surfaces should be covered the same day.



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MetShield

**High Temperature
Waterproof Underlayment
Membrane**

MetShield PREVENTS:

- Roof Damage from melting ice
- Roof damage from wind driven rain

MetShield IS IDEAL FOR:

- New constructions
- Re-Roofing
- Designed for use under metal roofing
- Roof edges, valleys, ridges and all critical areas

MetShield IS THE ULTIMATE WATER DAMAGE PROTECTION BECAUSE:

- Self-adhesive
- Uniform thickness
- Easy to install
- Skid resistant during application
- Withstands structural movement
- Self-sealing
- Permanent membrane
- Resists high temperatures found under metal roofing (220°)