VAPROSHIELD®
Breathable Membrane Systems for Roofs & Walls

RoofBlock HT

a vapor barrier/air barrier roofing underlayment designed for waterproofing vented roof decks and preventing water intrusion from ice damming, Product No.: 41403899

Product Description

RoofBlock HT is a high temperature roofing underlayment composed of a high strength slip resistant spider web backing laminated to a high-performance, high temperature asphalt compound with a film release for ease of application. The release liner is removed leaving a strong asphalt compound to bond to the roof deck.

BASIC USE

RoofBlock HT is a waterproofing roofing underlayment utilized in sloped roofing applications under metal, tile, slate, wood shingles or shakes.

RoofBlock HT is designed to be used at eaves of roof assemblies for preventing damage from "ice damming" conditions.

RoofBlock HT may also be used as a total roofing underlayment over **VENTED ATTIC SPACES** for water protection under the primary roof system.

BENEFITS

- RoofBlock HT is designed to help in high temperature applications
- The high temperature resistance allows the membrane to be exposed to heat of 260°F (127°C) or less
- RoofBlock HT has superior adhesion to the roof deck
- RoofBlock HT is water resistant around most nominal fasteners which will resist leakage caused by water backing-up due to ice dams or wind driven rains

Compatible with Substrates

- Sheathing
- Plywood
- Wood Composite
- OSB
- Metal
- Concrete
- Wood Plank

Roofing System Compatibility

RoofBlock HT may be used on sloped vented roof decks. RoofBlock HT can be installed on eaves, valleys, and other areas such as protrusions, and skylights for ice damming protection in conjunction with SlopeShield Plus SA roof underlayment.

As an alternative RoofBlock HT can be installed as a stand alone vapor barrier roofing underlayment solution in vented attic spaces.

Contact VaproShield Technical if you have any additional substrate or roofing system questions.

Technical Data & Environmental

PHYSICAL PROPERTIES	
PROPERTY	RESULT
Color	Red/White
Thickness	1.02 mm (40 mil)
Roll Dimensions	36" x 75' (0.91 m x 22.9 m)
VOCs	None
Exposure Before Permanent Roofing Materials	60 days
Application Temperature	32°F (0°C) - 260°F (127°C)
Warranty	2 year material warranty

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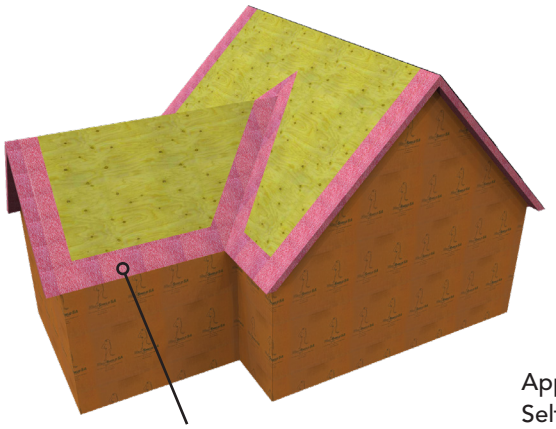
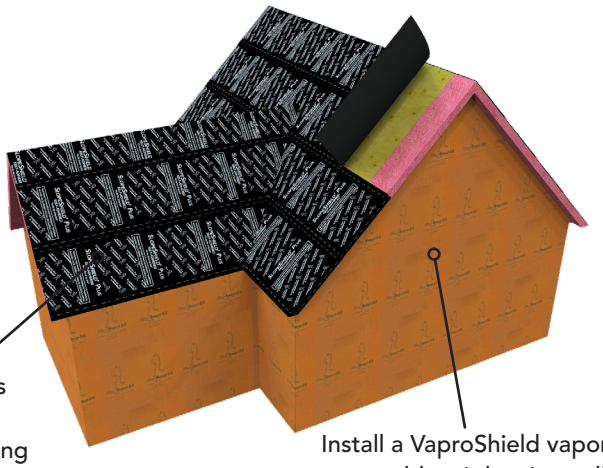
Permeable Roof and Wall System

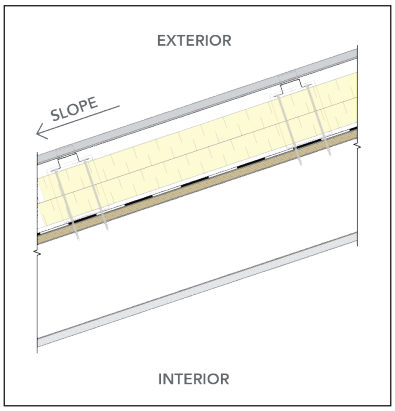


RoofBlock HT installed on eaves, valleys and other areas such as protrusions, and skylights.

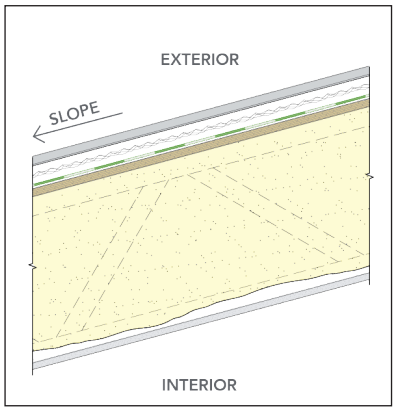


Apply SlopeShield Plus Self-Adhered highly vapor permeable roofing underlayment to create a breathable roofing assembly.

Install a VaproShield vapor permeable, air barrier wall membrane for a robust wall assembly.

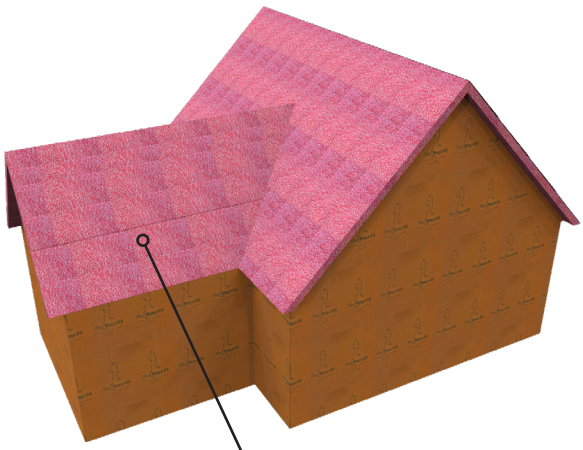


Exterior Insulated Roof

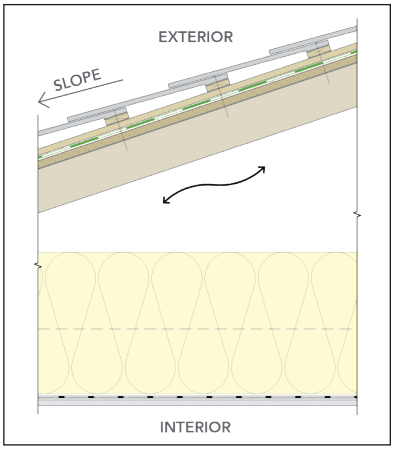


Compact Spray Foam Roof

Vapor Barrier Roofing System - Vented Roof Design



Apply RoofBlock HT to the entire roofing deck as a vapor barrier solution in vented attic spaces.



Vented Attic Roof

Installation

STORAGE AND HANDLING

Materials should be delivered in a manufacturer's original, unopened packaging with labels attached. All materials must be handled in a manner to prevent damage. Any material damaged must be removed from the project area and replaced with new material. Products must be handled in accordance with manufacturer's guidelines. Material Safety Data Sheets must be reviewed for guidance on flammability and other dangers of any primers to be used; instructions for safety should be fully followed.

PREPARATION

RoofBlock HT can be installed directly to a clean dry structural deck. All dust, loose nails, old roofing materials and dirt must be removed prior to application of the membrane. Decks must not have voids, unsupported or damaged areas. Wood plank substrate must be butted tight together. The underlayment cannot span a crack larger than 1/16" (1.6mm).

Prime as needed, but never apply primer to wet or frozen surfaces. If surface temperatures are 32°F (0°C) and rising, RoofBlock Primer SB or California Sealant may be used to promote adhesion. If surface temperatures are 40°F (0°C) and rising, RoofBlock Primer WB (water-based) may be used to promote adhesion

The underlayment should be kept warm until needed if cold temperatures exist. When substrate is ready, apply RoofBlock WB at a rate of 350-400 sq. ft. per gallon, RoofBlock Primer SB or California Sealant at a rate of 250-300 sq. ft. per gallon, depending on porosity of the substrate and using a short nap roller or brush. Allow primer to dry for one hour or until tack-free. Prime only the area that can be covered with RoofBlock HT on the same working day. Areas primed and not covered within 24 hours should be recoated.

Do not apply primer at heavier rates than recommended. Excessive material build-up will delay drying and underlayment application. Primer must be used on masonry, concrete or gypsum. If wood composite and gypsum sheathing adhesion is marginal, adhesive should be used to enhance adhesion to the substrate.

Roofing material can be applied promptly over RoofBlock HT.

BEST PRACTICE INSTALLATION

On standing seam metal roofs RoofBlock HT will be applied on insulation board. The underlayment should be applied with a 6-inch minimum end and a 3-inch side overlap. Cut RoofBlock HT into 10-15 foot lengths and re-roll. Starting at the base or lower edge of the roof, apply underlayment with the long edge parallel to the edge of the roof. Unroll RoofBlock HT by pulling the release sheet from under the underlayment. Roll the surface with a small hand type roller or hand pressure during application to eliminate minor wrinkles and air pockets.

Most local building codes and the National Roofing Contractors Association recommend underlayment application from roof edge to 24-inch within the interior wall line of the building. Since snow loads vary by area, local conditions should be considered during specification.

Apply RoofBlock HT to ridges or valleys, slit to proper width and with approximately half of the underlayment width applied on either side of the ridge or valley. Cut the underlayment into approximately 6-foot lengths for placing on irregular contoured surfaces for ease of application. Install roofing valleys from the low point to the high point, shingling RoofBlock HT. Overlap all ridge and valley underlayment by 6-inches. In mountainous areas with considerable snow, it may be necessary to apply RoofBlock HT. Repair holes, tears, fishmouths and any damage to membrane with a piece of RoofBlock HT extending past the damaged area a minimum of 6-inches in all directions. Fasteners or screws must stay in but if removed they must be patched. RoofBlock HT may not self-seal around these areas.

Visit www.VaproShield.com for complete installation instructions and instructional videos.

SAFETY

Underlayment membrane is slippery when wet. Workers should use shoes with sufficient sole friction to avoid sliding or slipping on the material. Avoid walking on this material when wet. Use good roofing practices, always wear fall protection when working on a roof deck.

LIMITATIONS

Avoid folding the underlayment over the roof edge unless protected by flashing, gutters, or drip caps. If drip caps are used, do not install underlayment on top of the drip cap. RoofBlock HT can be folded over the roof edge underneath the drip cap. RoofBlock HT cannot be guaranteed for UV stability if left exposed for over 60 days. If extended UV stability is required over 60 days, cover RoofBlock HT with SlopeShield Plus SA. RoofBlock HT is not compatible with EPDM or TPO roofing systems. Do not allow RoofBlock HT to come in contact with flexible PVC, polysulfieds or high concentrations of resins such as pitch.

Availability

VaproShield products are available throughout North America, Central and South America, and New Zealand.

Warranty

A 2-year material warranty is available.

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TESTING DATA		
PROPERTY	STANDARD	RESULT
Strength		
Maximum Tensile Strength @ 73.4°F (23°C)	ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	MD - 3.96 MPa (574 psi) XMD - 4.03 Mpa (585 psi)
Elongation at Max Tensile Strength @ 73.4°F (23°C)	ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	>800%
Dry Tensile Strength	ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting	MD - 5.66 MPa (821 psi) XMD - 7.27 Mpa (1055 psi)
Breaking Strength	ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting	MD – 5.06 N/mm (28.9 lbf/in.) XMD – 6.51 N/mm (37.2 lbf/in.)
Low Temperature Flexibility	ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection	PASS
Tear Resistance (Tongue Tear)	ASTM D4073 Standard Test Method for Tensile-Tear Strength of Bituminous Roofing Membranes	69.30 N (15.58 lbf)
Puncture Resistance	ASTM E154 Standard Practice for Testing Load-Strain Properties of Roofing Membranes	Puncture Strength 237 N (53.3 lbf)
Water Vapor Transmittance		
Water Vapor Transmission Desiccant Method Procedure A, 23°C (73.4°F) 50%RH	ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials	0.0033 Perm (grain/h•ft²•inchHg) 0.19 ng/Pa•s•m²
Water Vapor Transmission Water Method Procedure B, 23°C (73.4°F) 50%RH	ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials	0.0034 Perm (grain/h•ft²•inchHg) 0.197 ng/Pa•s•m²
Adhesion Testing		
Peel Adhesion	ASTM D903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds	Concrete 1665 N/m (9.51pli) DensGlass® 1469 N/m (8.39 pli)
Lap Adhesion	ASTM D1876 Standard Test Method for Peel Resistance of Adhesives (T-Peel Test)	1839 N/m (10.5 pli)
Pull Adhesion	ASTM D4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers	Concrete 0.25 MPa (35.7 psi) DensGlass® 0.22 MPa (31.7 psi)
Air Resistance Testing		
Air Permeance	ASTM E2178 Standard Test Method for Air Permeance of Building Materials	0.0003 l/(s x m²) @ 75 Pa (0.000 cfm/ft² @ 1.57 psf)
Air Barrier	ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies	0.061 l/(s x m²) @ 75 Pa (0.012 cfm/ft² @ 1.57 psf)
Water Resistance Testing		
Nail Sealability	ASTM D1970/ section 7.9 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection ASTM D7349 Standard Test Method for Determining the Capability of Roofing and Waterproofing Materials to Seal around Fasteners	PASS
Water Resistance (Control after Weathering)	AATCC 127 Hydrostatic pressure test (550 mm water column for 5 hours), American Association of Textile Chemists and Colorists	PASS