

1. Product Name
RoofShield®

2. Manufacturer

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3. Product Description

BASIC USE

RoofShield is a breathable (moisture-permeable), water-shedding underlayment that provides a high-performance vapor control and a secondary weather barrier engineered for commercial applications.

COMPOSITION & MATERIALS

RoofShield is manufactured from 100% flash spun bonded, high-density polypropylene fabric. The material is bonded by heat and pressure without binders or fillers into tough, durable sheets. RoofShield has a triple-layered construction to achieve the ideal combination of performance characteristics. RoofShield meets the following basic criteria: vapor permeable, water resistant, wind resistant, UV stabilized, rot proof, and tear resistant.

SIZES

RoofShield

- 59" x 164' - roof
- 118" x 164' - roof

4. Technical Data

APPLICABLE STANDARDS

American Association of Textile Chemists & Colorists (AATCC)
AATCC-127-Water Resistance: Hydrostatic Pressure Test.

American Society for Testing & Materials (ASTM)

- ASTM E84-00a Standard Test Method for Surface Burning characteristics of Building Materials

- ASTM E96 for Water Vapor Transmission of Materials
- ISO 5363:3 1992, Mean Air Permeance.

APPROVALS

- International Conference of building Officials (ICBO) Evaluation Report #ER-5894

5. Installation

DELIVERY & SITE HANDLING

Rolls of RoofShield are delivered to site individually wrapped in a polythene sleeve.

Rolls should be stored on a clean, level surface – either flat or upright – and kept under cover.

ROOFSHIELD INSTALL METHODS

Always install RoofShield green side up. For attachment to wood or insulated sheathing board, fasten RoofShield using nails with plastic washers.

Tile and Slate Roofs

For tile and slate roof applications, RoofShield should be laid horizontally across the deck, starting at the eaves.

Ensure min. 4" horizontal laps and min. 6" vertical laps. Distance from the edge to the fasteners should be 2" min.

Metal Roofs

For sheet roof applications, RoofShield should be laid such that it forms a continuous membrane over the entire area below the roof panels, allowing any water to drain down to the gutters.

On low-slope roofs, the laps should be taped to prevent water from finding its way onto the insulation below. For advice on suitable tape specification for specific applications, contact your RoofShield representative.

At penetrations, such as vent pipes and skylights, an additional piece of RoofShield should be laid upslope and taped in position, to channel water away to each side of the opening.

Cold Roof Installation Techniques

The air tightness of the slate or tile should be considered when assessing

the requirements for ventilation above the underlayment.

Batt insulation should be laid horizontally at ceiling level, pressed tightly into the eaves against the roof sheathing to ensure no gaps are present.

Occupied spaces below the roof being covered should be ventilated in accordance with building regulations and exhaust fans installed in rooms of high humidity (e.g., kitchens and bathrooms).

Penetrations into the attic space from inside and outside must be sealed, attic hatches should have draft-free closures.

PRECAUTIONS

RoofShield should be covered within six months of installation. A complete installation guide is available.

Laying lightweight membranes in high wind conditions is difficult. Appropriate precautions should be taken during installation.

Attention to detail is important. Always look for and eliminate or mitigate blockages that could prevent the free drainage of water.

Contamination of RoofShield membrane with building site chemicals which make it more wettable (e.g., surfactants), adversely affects its water resistance and therefore its contribution to the water resistance of the overall roofing system.

6. Availability & Cost

AVAILABILITY

RoofShield is widely distributed throughout the United States.

COST

Contact your nearest VaproShield representative for local cost and delivery information.

For more information or the name of your nearest representative, call:

1-866-731-7663, toll-free from the United States, from 8:00AM - 5:00PM, Pacific Standard Time.

PHYSICAL PROPERTIES

Test & Method	RoofShield Results
Water vapor transmission, ASTM E-96.00878 grains/ft ² - 24 hours	
Permeance	212 perms
Permeability	595 perm inches
Water penetration resistance, AATCC-127	68 cm
	66.6 mbars
	0.97 psi
Mean air permeance, ISO 5363:3 1992	72.4 µm/P.s
Surface burning characteristics, ASTM E84-00a	
Flame Spread	Class A
Smoke Developed	Class A
Basis weight	5.16 oz/yd ²
Thickness	0.0236"

EXTREME WEATHER STATEMENT FOR ROOFING APPLICATIONS RoofShield® passes all water hold-out test requirements in accordance with ICC-ES AC48 (Acceptance Criteria for Roof Underlayments for use in Severe Climate Areas) and AC 207 (Acceptance Criteria for Polypropylene Roof Underlayments). As many areas in the country are experiencing extreme weather conditions such as heavy and prolonged rainfall, "Best Building Practice" would suggest and VaproShield recommends that RoofShield be augmented with additional water proofing materials (i.e. tarps) DURING THE CONSTRUCTION PHASE to ensure that interiors are protected until the primary roofing material is applied. Neither VaproShield LLC nor any of its affiliated companies, including product suppliers and manufacturers, shall be liable for damages, including but not limited to consequential damages, that result from water infiltration through RoofShield® during the construction phase.