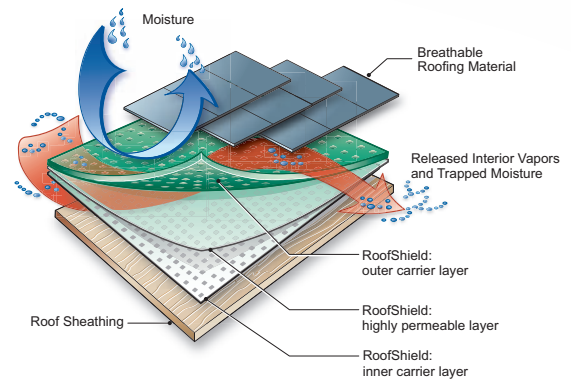


RoofShield promotes healthy buildings, long-term cost benefits and environmental sustainability.

RoofShield is the most weather resistive vapor and air permeable roofing membrane on the market today with a rating of 212 perms.

RoofShield Is Unsurpassed In Performance



RoofShield Membrane Construction

Drying Capacity

- As the most breathable roofing membrane available, RoofShield has the highest drying capacity in the industry (see chart).
- RoofShield's high permeability allows interior moisture to escape and ensures water-saturated sheathings dry quickly, reducing the incidence of mold, mildew, rot, metal corrosion and insulation thermal value loss.

Durability & Cost Effectiveness

- Warranted to last the life of the building.
- Sustains 6 months of UV and climate exposure.
- Self-cinching, minimizes penetration point leaks and the need for sealant (photo below, right).
- Tear, rip and puncture resistant during and after construction reducing repairs and labor costs.
- Installs quickly and easily under breathable sloped roof systems decreasing labor costs.

Environmental Sustainability

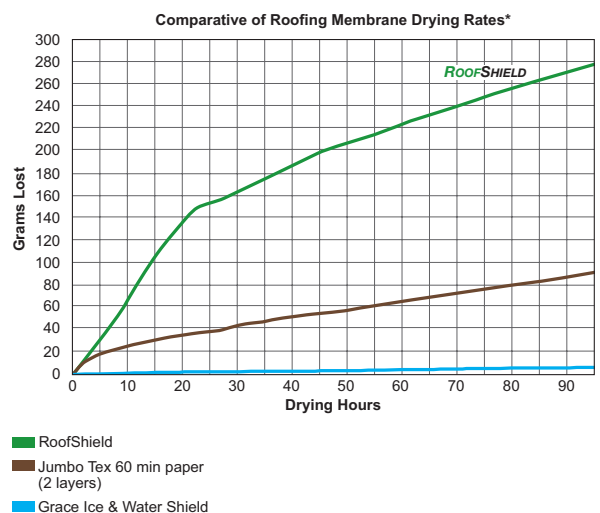
- Contributes to LEED points in Indoor Environmental Quality.
- Is 100% recyclable.

Compatibility

- Compatible with metal roofing, copper, zinc, clay tile, slate, wood shakes and shingle roofs.
- Recognized as an alternate to Type 30 (Type II) roofing underlayment specified in chapter 15 of the Uniform Building Code (UBC) and the 2000 International Building Code (IBC).
- The solution for commercial, institutional and multi-family residential construction.

RoofShield is unsurpassed in its ability to dry

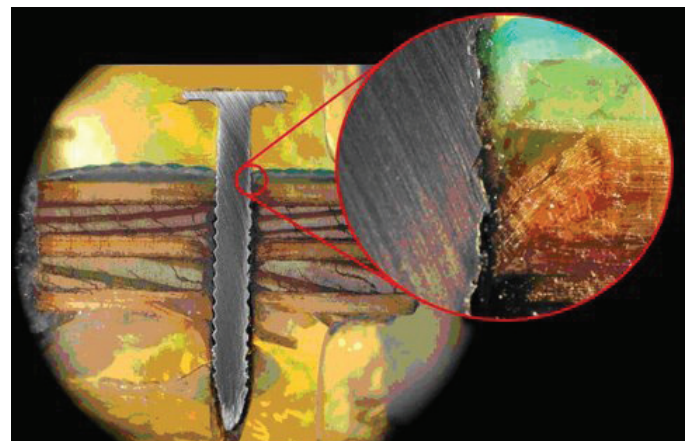
Third Party Comparison Roofing Membrane Drying Rates Over Wood Substrates



* Jumbo Tex is a registered trademark of Fortifiber Corp.

* Grace Ice & Water Shield is a registered trademark of W.R Grace company

*copy of test available



RoofShield self cinches around fasteners minimizing the need for sealant and reducing construction time and costs.



RoofShield water vapor transmission: 212 perms, highest in the industry



RoofShield triple layer spun bond polypropylene

RoofShield installation at Detroit Metropolitan International Airport

ROOFSHIELD TESTING

Acceptance Criteria for Polypropylene Roof Underlayments AC 207 & Acceptance Criteria for Roof Underlayments for use in severe climate areas AC48. Tested in accordance with ICC-ES AC 48 criteria to meet UBC, IBC and IRC requirements for Weather Resistive Barriers with - ICC Certificate #ESR-1368. *ASTM E 96 - Method B (wet cup method) typically gives a more realistic result for permeance for highly permeable products than does the Method A (dry cup/desiccant method).

Property	Standard/Test	Result	Result	Result
Tensile Strength	ASTM D1970 AC 48, Section 4.1	<u>Control</u> MD – 28.2 lbf/inch (4.94 N/mm) CD – 22.6 lbf/inch PASS	<u>Accelerated Aged</u> MD – 25.0 lbf/inch (4.4 N/mm) CD – 20.1 lbf/inch PASS	<u>UV Exposed</u> MD – 25.6 lbf/inch (4.5 N/mm) CD - 20.5 lbf/inch PASS
Water Vapor Transmission	ASTM E96* (Method B) AC 207, Section 4.1	1309.7 g/m ² 24hrs 12126.4 ng/Pa/s/m ² 212 Perms PASS		
Water Ponding	AC 48, Section 4.2 24 inch head of water for 48 hours	PASS		
UV Exposure	AC207, Section 4.7	PASS		
Liquid Water Transmission	ASTM D4869 Showerhead impinges 40 gallons of water per hour for 4 hrs on sample.	PASS		

Fire Testing

Property	Standard/Test	Result
Flamespread Index	ASTM E-84	5 – Class A PASS
Smoke Development Index	ASTM E-84	70 – Class A PASS

Independent Testing

Property	Standard/Test	Result
Nominal Thickness	Calibrated Deadweight Micrometer	0.023 inch (0.58mm)
Basis Weight	Electronic Weight Scale	5.16 oz/yd ² (0.55 oz/ft ²) 175g/m ²

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.