



1. Product Name

WrapShield® with Integrated Tape
Water Resistive Vapor Permeable Air Barrier
Sheet Membrane

2. Manufacturer

VaproShield, LLC.
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3. Product Description

BASIC USE AND APPLICATIONS

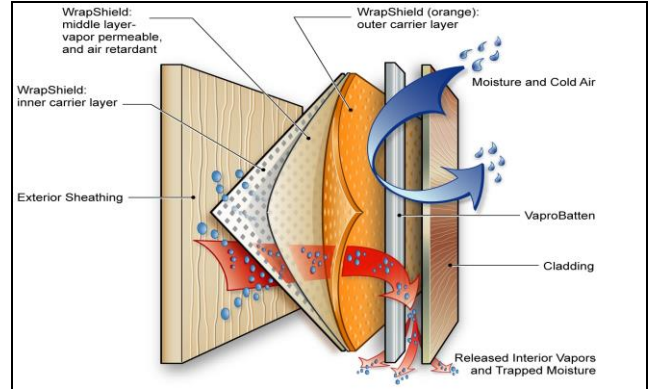
WrapShield with Integrated Tape is a mechanically attached high performance Water Resistive Barrier (WRB) and Air Barrier (AB) material with integrated tape, designed for above grade use in wall assemblies.

BENEFITS

WrapShield with Integrated Tape is recommended for applications requiring a high level of vapor permeability while limiting Air Leakage and Infiltration through the Building enclosure. WrapShield with Integrated Tape provides outstanding liquid water holdout capabilities as a Water Resistive Barrier (WRB) and it can perform as an Air Barrier (AB) when installed according to VaproShield’s published installation instructions. The incorporation of the integrated tape at the horizontal seams makes installation quick and efficient, while offering a superior mechanically attached air barrier system.

MATERIAL

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



SIZE:

Roll Size: 59 inches by 164 feet (1500 mm by 50 m)

4. Technical Data

Tested in accordance with: ICC-ES AC 38 criteria to meet IBC and IRC requirements for Weather Resistive Barriers; and tested in accordance with CCMC testing requirements.

WrapShield Testing

Property	Standard/Test	Result
Air Barrier Testing		
Air Permeance of Building Materials	ASTM 2178	0.0095 L/s/m ² 0.0019 cfm/ft ² PASS
Air Leakage through Wall Systems	ASTM E-283	0.00017 L/s/m ² 0.000034 cfm/ft ² PASS
Air Retarder Materials & Systems	ASTM E-1677	Type 1 Air Barrier PASS
Tensile Strength	ASTM D882	MD - 44.8 lbf/inch (4.94 N/mm) CD - 25.1 lbf/inch PASS
Water Resistance (control and weathered specimens)	AATCC 127 (55cm Hydrostatic Head of Water for 5 hrs)	No leakage noted on underside of control or weathered samples PASS
Water Vapor Transmission	ASTM E96	308.9 g/m ² 24 hrs 2860 ng/Pa/s/m ² 50 Perms PASS
Flamespread Index	ASTM E-84	10 - Class A PASS
Smoke Development Index	ASTM E-84	35 - Class A PASS

SUSTAINABLE DESIGN BENEFITS

WrapShield with Integrated Tape Water-Resistive Vapor-Permeable Air Barrier Sheet Membrane protects against water intrusion but allows building materials that may have become wet during the construction phase to dry out, reducing the risk of wood rot, deterioration or corrosion. WrapShield with Integrated Tape sustains six (6) months (180 days) UV and climate exposure prior to cladding installation.

RELATED LEED CREDITS

WrapShield membrane contributes to LEED points, is 100 percent recyclable and is free of urea-formaldehyde components.

- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan-During Construction
- EA Credit 1: Optimize Energy Performance

5. Installation

STORAGE AND HANDLING

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

PREPARATION

- WrapShield with Integrated Tape can be installed over multiple substrates including: Plywood, OSB, Framing Lumber, Gypsum Sheathing, Rigid Insulation, and Semi-Rigid Insulation (Mineral Fiber).
- WrapShield with Integrated Tape can be installed over wet substrates to limit further water intrusion and to allow the substrate to dry during the construction period. See Installation Instructions on website for step by step pictures of installation.

FASTENING GUIDELINES

- WrapShield with Integrated Tape is mechanically fastened to the substrate. Stainless Steel Staples or Cap Nails may be used as temporary fasteners during installation but only at locations that will be covered by the shingling of the next layer of material. See complete Installation Instructions on website for additional information.
- DO NOT place fasteners in the Integral Tape overlap area prior to removal of the release papers and sealing of the Integral Tape seam. Fasteners should be placed in the overlap area only after the Integral Tape release papers have been removed and the horizontal joint is sealed.
- Join horizontal seams by pulling and removing both release papers simultaneously (the underside of the overlapping upper course and the top side of the lower course).

- Exposed fasteners for the WrapShield with Integrated Tape WRB/AB will require VaproCaps and #6, #7, or #8 size corrosion protected bugle headed screws of the appropriate thread design and length for the underlying substrate and framing material.
- VaproCaps are washers that have been extensively tested for both water and air leakage and substitutions are not recommended.

BEST PRACTICE OVERVIEW

- Horizontal overlaps must be at 6” in order to properly seal the Integral Tape joint. Vertical overlaps are to be 12” minimum and require double sided VaproTape, Tremco Butyl Sealant or Dow 758 Sealant, to provide an Air Barrier Seal. Vertical overlaps are to be staggered a minimum of 24” and should not occur directly above or below windows or doors.
- Always install WrapShield with Integrated Tape in a *“weatherboard or shingle fashion”* with the upper courses lapped on top of the courses below, using the dotted line provided at 6” down from the top edge.

GENERAL

- **See www.VaproShield.com for complete installation instructions.**

LIMITATIONS

- WrapShield with Integrated Tape should be covered within six months of installation
- Contamination of WrapShield 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 wall system.
- The WrapShield membrane should not be subjected to asphaltic materials, chemicals, surfactants, or cleaning compounds that could affect the water resistance of the fabric surface; if exposed, replace affected fabric.

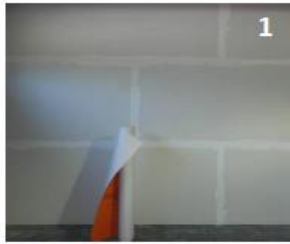
6. Availability

VaproShield products are available throughout North America; go to www.vaproshield.com or contact VaproShield for local contact information: USA Toll Free (866) 731-7663 or Canada (866) 871-8263.

7. Warranty

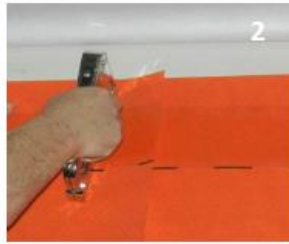
A 20 Year Product Warranty is available.

See www.vaproshield.com for complete set of installation instructions.



Begin installation at the base of the wall, progressing in a shingle fashion upwards.

Snap a level chalk line for guidance.



Install with SS staples in the top 2" above the Integrated tape.

Avoid stapling in the tape area.



Line up the bottom of the upper course of material with the dotted line on the lower course of material, creating a 6" overlap.



Overlap vertical seams by 12" minimum. Vertical seams can be sealed with Double Sided VaproTape or Dow 758 sealant.

SEE 2 VERT SEAM OPTIONS BELOW:

VAPROTAPE OPT: #5A – 5D

DOW 758 OR TREMCO BUTYL SEALANT

OPT #6A-6D



Install Double-Sided VaproTape on underlying layer of membrane perpendicular and continuous with the Integral Tape above and below. Remove lower release film from tape, applying hand pressure to place the tape in position.



Roll tape with weighted roller to activate built-in primer.



Remove secondary release paper from top of tape.



Lay overlapping layer of WrapShield onto vertical tape joint and smooth with hand pressure.



Cut and pull back release paper at bottom of membrane tape joint where horizontal joint intersects with vertical joint.



Overlap vertical seams by 12" minimum.

Apply Dow 758 or Tremco Butyl sealant bead just below Integrated Tape line at the vertical seam joint.



Apply Dow 758 or Tremco Butyl sealant in a single bead down the membrane to the bottom of the sheet.



Lay overlapping layer of WrapShield onto vertical sealant joint and smooth with hand pressure.

Cut and pull back release paper at bottom of membrane sealant joint where horizontal joint intersects with vertical joint.



Go over sealant joint with a weighted Roller.



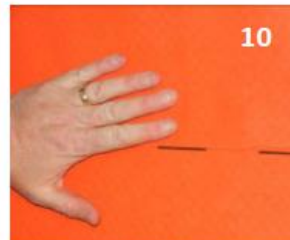
Begin joining horizontal seams by removing both release papers (the underside of the overlapping upper course and the top side of the lower course).



Line up both release papers together so they can be pulled down the wall with one hand.



Use the opposite hand to smooth the two layers together as the release paper is removed.



Smooth out wrinkles with hand pressure.