



1. Product Name

RevealShield™ with Integrated Tape:
Water Resistive Vapor Permeable Air Barrier Sheet Membrane

2. Manufacturer

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3. Product Description

BASIC USE AND APPLICATIONS

RevealShield with Integrated Tape is a UV resistant black colored mechanically attached high performance Water Resistive Barrier (WRB) and Air Barrier (AB) material with integrated tape, **designed for use behind open joint wall cladding applications.**

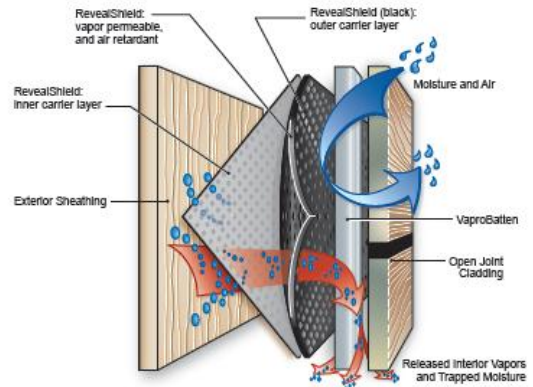
BENEFITS

RevealShield with Integrated Tape is for use behind open joint cladding applications, requiring only a single layer UV resistant black membrane material at open joint locations. RevealShield has high vapor permeability and limits Air Leakage and Infiltration through the Building enclosure. RevealShield 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

RevealShield with Integrated Tape is manufactured from spun bonded, black polyester fabric, with a UV stable coating. It is bonded by heat and pressure into tough, durable sheets. RevealShield with Integrated Tape has a multi-layered construction to achieve the ideal combination of performance characteristics required under an open joint cladding system. RevealShield with Integrated Tape meets the following basic criteria: UV stabilized, vapor permeable, water resistant, wind resistant, rot proof, and tear resistant.

REVEALSHIELD™ UNSURPASSED IN PERFORMANCE



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

COLOR: **Black**

4. Technical Data

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

REVEALSHIELD TESTING

Property	Standard/Test	Result
Air Barrier Testing		
Air Permeance of Building Materials	ASTM 2178 (Required per ABAA protocol)	0.0002 L/s/m 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 D828	MD - 39 lbf/inch XMD 21.3/lbf/inch PASS
Water Resistance (control and weathered)	AATCC 127 (55cm Hydrostatic Head for 5 hrs)	No leakage noted control or weathered PASS
Water Vapor Transmission	ASTM E96 (Method B)	262.6 g/m ² 24 hrs 41.4 Perms PASS
Flame spread Index	ASTM E-84	10 - Class A PASS
Smoke Development Index	ASTM E-84	35 - Class A PASS

SUSTAINABLE DESIGN BENEFITS

RevealShield with Integrated Tape Water-Resistive Vapor-Permeable Air Barrier Sheet Membrane is **highly UV resistant: It can remain exposed for up to 180 DAYS prior to installation of open joint cladding system while also able to maintain inherent resistance to PERMANENT UV exposure behind open joints up to two inches wide with a maximum of 40% open wall area.** RevealShield 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.

RELATED LEED CREDITS

RevealShield membrane contributes to LEED points:

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

5. Installation

PREPARATION

- RevealShield with Integrated Tape can be installed over multiple substrates including: Plywood, OSB, Framing Lumber, Gypsum Sheathing, Rigid Insulation, and Semi-Rigid Insulation (Mineral Fiber).
- RevealShield with Integrated Tape can be installed over damp 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.
- RevealShield requires a drainage cavity or rain screen system to be incorporated into all WRB/AB Installations. **Black VaproBattens** accomplish this and are available as a corresponding accessory.

FASTENING GUIDELINES

- RevealShield 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 Integrated Tape overlap area prior to removal of the release papers and sealing of the horizontal Integrated Tape seam. Fasteners should be placed in the overlap area only after the Integrated Tape release papers have been removed and the 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 RevealShield 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 Integrated Tape joint. Vertical overlaps are to be 12" minimum and require 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 RevealShield 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.

STORAGE AND HANDLING

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

GENERAL

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

LIMITATIONS

- RevealShield with Integrated Tape should be covered within one months of installation
- Contamination of RevealShield 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 RevealShield 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.

7. Warranty

A 20 Year Product Warranty is available.