



1. Product Name

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

2. Manufacturer

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3. Product Description

BASIC USE AND APPLICATIONS

RevealShield IT Integrated Tape is a UV stable 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 IT Integrated Tape is for use behind open joint cladding applications, requiring only a single layer UV stable black membrane material.

RevealShield IT 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.

With a vapor permeance of >70 perms **RevealShield IT** prevents air leakage and allows the wall assembly to breathe or "dry-out" as necessary to adapt to the seasonal changes of the building. This helps to ensure good indoor air quality while reducing conditions conducive to mold, mildew, lumber distortion and metal corrosion.

RevealShield IT Integrated Tape keeps construction schedules moving as it can be installed in extreme weather conditions allowing the building to dry to the outside once installed.

Multiple Substrate Compatibility:

- Exterior Gypsum
 - Semi-Rigid Insulation
 - Precast Concrete
 - Concrete Block
 - Cast-in-place Concrete
 - Plywood
 - Pre-painted Steel
 - Galvanized Metal
 - Aluminum (Painted/Mill)
 - Anodized Aluminum
 - Rigid Vinyl
 - OSB
- Contact VaproShield Technical if you have additional substrate questions.

MATERIAL

RevealShield IT 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 IT** has a multi-layered construction to achieve the ideal combination of performance characteristics required under an open joint cladding system. RevealShield IT meets the following basic criteria: UV stabilized, vapor permeable, water resistant, wind resistant, rot proof, and tear resistant.

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 IBC and IRC requirements for Water Resistive Barriers.

SUSTAINABLE DESIGN BENEFITS

RevealShield IT is highly UV resistant: It can remain exposed for up to 1 YEAR prior to installation of cladding system, although 40% or 2 inch (5.1 cm) open joint exposure is unlimited.

BEST PRACTICES recommend covering with cladding as soon as possible.

RELATED LEED CREDITS

RevealShield IT contributes to Environmental Quality ("EQ") credit 4.1: Low-Emitting Materials: Adhesives & Sealants, under United States Green

Building Council's Rating System for New Construction and Major Renovations (LEED-NC), version 2.2, core and shell (LEED-CS), version 2.0.

5. Installation

PREPARATION

- All surfaces should be dry, sound, clean, and free of oil, grease, dirt, excess mortar or other contaminants detrimental to the installation of the water resistive air barrier membrane and flashings. Fill large voids and gaps in substrate to provide an even surface. Strike masonry joints full-flush.

- **RevealShield IT** Integrated Tape membrane requires a ventilated, unimpeded vertical drainage cavity or rain screen system to be incorporated into all WRB/AB installations. VaproBattens™, VaproMat™, or VaproShims SA™ Self-Adhered accomplish this and are available as a corresponding accessory.
- **RevealShield IT** can be installed over damp substrates to limit further water intrusion and to allow the substrate to dry during the construction period.
- Use VaproShield's two component flashing system, RevealFlashing™ or RevealFlashing SA™ Self-Adhered and VaproLiqui-Flash™ vapor permeable water resistive flashing system for window and door rough openings.

See www.VaproShield.com for complete installation instructions.

FASTENING GUIDELINES

- **RevealShield IT** 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.
- DO NOT place fasteners in the Integrated Tape overlap area prior to removal of the release film and sealing of the horizontal Integrated Tape seam. Fasteners should be placed in the overlap area only after the Integrated Tape release film have been removed and the joint is sealed using a two handed roller.
- Join horizontal seams by pulling and removing both release film simultaneously (the underside of the overlapping upper course and the top side of the lower course).
- Exposed fasteners for the **RevealShield IT** 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" (15 cm) in order to properly seal the Integrated Tape joint. Vertical overlaps are to be 12" (30.5 cm) minimum and require VaproBond™, to provide an air barrier seal. Vertical overlaps are to be staggered a minimum of 24" (61 cm) and should not occur directly above or below windows or doors.

- Always install **RevealShield IT** 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" (15 cm) 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

- Go to www.VaproShield.com for complete installation instructions and instructional videos.

LIMITATIONS

- **RevealShield IT** Integrated Tape should be covered within six (6) months (180 days) from UV and climate exposure.
- No minimum application temperature for mechanically attached membrane and flashings.
- Contamination of **RevealShield IT** Integrated Tape membrane with building site chemicals which make it more wettable (e.g., surfactants), can adversely affect its water resistance and therefore its contribution to the water resistance of the overall wall system.
- The **RevealShield IT** Integrated Tape 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, Central, South America and New Zealand.

7. Warranty

A 20 Year Product Warranty is available.

REVEALSHIELD IT™ INTEGRATED TAPE Testing
Acceptance Criteria for Weather Resistive Barriers | AC 38 (polymeric-based barrier)

PROPERTY	TEST/STANDARD	RESULT
Roll Length		164' (50 m)
Roll Width		59" (1.5 m)
Nominal Thickness	Calibrated Micrometer	17.6 mils (0.446 mm)
Basis Weight	Electronic Weigh Scale	6.34 oz/yd ² (310 g/m ²) - averaged
Roll Weight		54 lbs (24.5 kg) packaged
Application Temperature		No limitations
Service Temperature		-40°F to 250°F (-40°C to 121°C)
Water Resistance	AATCC - 127	PASS (22 in. head of water >5 hrs.)
Air Permeance	ASTM E2178	PASS <0.0033 cfm/ft ² @ 1.57 psf (0.0017 L/s m ² @ 75 PA)
Water Vapor Transmission (WVT)	ASTM E398 (23°C @ 50% RH)	73.97 Perms 511.93 g/m ² 24h WVT
Water Vapor Transmission (WVT)	ASTM E96 – Method B (23°C @ 50% RH)	97.6 Perms 669.6 g/m ² 24h WVT
UV Stability	AC38, Section 4.1.2	PASS UV Stable
Dry Tensile Strength	ASTM D828	MD 39 lb/inch (6.83 N/mm) CD 21.3 lb/inch (3.73 N/mm)
Breaking Strength/Elongation	ASTM D5034	MD 126 lbf (560 N) CD 87.7 lbf (390 N)
Flame Spread	ASTM E84	10 – Class A, PASS
Smoke Developed Index	ASTM E84	135 – Class A, PASS
NFPA 285	Assembly Fire Test	Contact VaproShield Technical Team 1-866-731-7663 opt. 5

