



**1. Product Name**

**WrapShield® IT 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 IT** Integrated Tape is a mechanically attached high performance Water Resistive Barrier (WRB) and Air Barrier (AB) membrane with integrated tape at the horizontal seams, designed for above grade use behind rain screen wall cladding assemblies.

**BENEFITS**

**WrapShield IT** Integrated Tape is recommended for applications requiring a high level of vapor permeability while limiting air movement through the building enclosure. **WrapShield IT** 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. With a vapor permeance rating of greater than 60 perms **WrapShield IT** Integrated Tape prevents air leakage and allows the wall assembly to breathe or ‘dry-out’ as necessary to adapt to the seasonal changes of the building which helps to ensure good indoor air quality while reducing conditions conducive to mold, mildew, lumber distortion and metal corrosion.

**WrapShield 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**

**WrapShield IT** Integrated Tape is manufactured from zero VOC100% flash spun bonded, high-density polypropylene fabric. **WrapShield IT** 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 (1.5 m by 50 m)

**COLOR:** Orange

**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.

**SUSTAINABLE DESIGN BENEFITS**

**WrapShield IT** 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 IT** Integrated Tape sustains six (6) months (180 days) of UV and climate exposure prior to cladding installation.

**RELATED LEED CREDITS**

**WrapShield IT** Integrated Tape membrane 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.

- **WrapShield 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 VaproShim SA™ Self-Adhered accomplish this and are available as a corresponding accessory.
- **WrapShield 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, VaproFlashing™ or VaproFlashing SA™ Self-Adhered and VaproLiqui-Flash™ vapor permeable water resistive flashing system for window and door rough openings.
- Self-adhered air barrier transition and flashing membrane shall be VaproFlashing SA™ Self-Adhered, a zero VOC self-adhered water-resistive vapor permeable membrane.

See [www.VaproShield.com](http://www.VaproShield.com) for complete installation instructions.

#### FASTENING GUIDELINES

- **WrapShield IT** 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 [www.VaproShield.com](http://www.VaproShield.com) for complete installation instructions
- DO NOT place fasteners in the Integrated Tape overlap area prior to removal of the release film and sealing of the Integrated Tape seam. Fasteners should be placed in the overlap area only after the Integrated Tape release film has been removed and the horizontal joint is sealed.
- Join horizontal seams by pulling and removing both release films simultaneously (the underside of the overlapping upper course and the top side of the lower course).
- Exposed fasteners for the **WrapShield IT** 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" (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 **WrapShield 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

- Store material rolls on end in original packaging. Protect rolls from direct sunlight and inclement weather

#### GENERAL

- Go to [www.VaproShield.com](http://www.VaproShield.com) for complete installation instructions, details and instructional videos.

#### LIMITATIONS

- **WrapShield 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 **WrapShield 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 **WrapShield 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.

**WRAPSHIELD® IT INTEGRATED TAPE- Testing**  
**Acceptance Criteria for Weather Resistive Barriers and Air Barriers**

PROPERTY	TEST/STANDARD	RESULT
Roll Length		164' (50 m)
Roll Width		59" (1.5 m)
Nominal Thickness	Calibrated Micrometer	22 mils (0.56 mm)
Basis Weight	Electronic Weigh Scale	5.09 oz/yd <sup>2</sup> (194 g/m <sup>2</sup> ) - averaged
Roll Weight		32 lbs (14 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 E 2178	PASS <0.0001 cfm/ft <sup>2</sup> @ 1.57 psf (<0.0004 L/s m <sup>2</sup> @ 75 PA)
Air Barrier Assembly	ASTM E 2357	<b>PASS &lt;0.002 cfm/ft<sup>2</sup> @ 1.57 psf</b> <b>(&lt;0.01 L/s m<sup>2</sup> @ 75 PA)</b>
Water Vapor Permeability (perms)	ASTM E96 Method B	66.9 perms (grains/ft <sup>2</sup> •hr•inHg) 444.9 WVTR (g/m <sup>2</sup> •24h)
Water Vapor Transmission Rate (WVTR)	ASTM E398	71.91 perms (grains/ft <sup>2</sup> •hr•inHg) 498.32 WVTR (g/m <sup>2</sup> •24h)
Breaking Strength/Elongation	ASTM D5034	MD 100.1 lbf (445.3 N) CD 86.1 lbf (383.0 N)
Flame Spread	ASTM E84	0 – Class A
Smoke Developed Index	ASTM E84	55 – Class A

