

# WallShield IT® Integrated Tape

a mechanically attached, water resistive vapor permeable membrane with integrated tape at the horizontal seams; Product No: 10208905

## WrapFlashing SA

Product No.: 46105590 / 46108090

### Product Description

WallShield IT Integrated Tape water resistive barrier (WRB) membrane protects the building envelope by allowing vapor and air to pass through but not liquid water mitigating costly moisture damage.

### BASIC USE

WallShield IT Integrated Tape is installed above grade behind rain screen wall cladding assemblies. WallShield IT can be also be used as temporary mass timber framework and beam protection

### MATERIALS

WallShield IT Integrated Tape consists of multiple layers of spun-bonded polypropylene fabric with clear integrated horizontal tape and a pre-marked lap template, ensuring accurate horizontal seam installation.

### WALL APPLICATION BENEFITS

**Exceptional building envelope protecting** – cutting-edge drying capacity (123 perms) allows building materials to dry-out, reducing the risk of damage from moisture infiltration, mold, mildew and rot for the life of the building.

**Factory installed clear integrated tape** – seals horizontal seams ensuring the upper layer shingles over the lower layer creating the 6" shingled effect.

**Pre-marked shingle template** – increases installation accuracy.

**Consistent millage thickness** – factory made rolled good ensures consistent properties and performance.

**Fully tested building envelope system** – rough opening flashing accessories eliminate the need for untested outside components.

**Mechanically attaches** – to multiple substrates using VaproCaps™.

**Simple installation** – requires only basic tools, no specialized mobilizations or protection gear are required.

**Install on dry and/or saturated substrates** – eliminates additional water accumulation by locking out liquid water, allowing vapor diffusive drying and helping to "dry-in" the build.

**Spans substrate joint gaps up to 7/8" (22.2mm)**, eliminates need for tapes and fillers.

**Phase construction ready**, install in all temperatures sustains up to 180 days UV and climate exposure prior to cladding installation.

**Emits zero VOCs, no primer required**, ensuring crew safety and a healthy building.

### MASS TIMBER PROTECTION BENEFITS

Temporary protection for framework and beams

Protects against moisture infiltration, reducing structural compromise from wetting

Guards against UV damage, mold, and wood discoloration

Cutting-edge drying capacity, 123 perms, promotes rapid drying

Durable and abrasion resistant

Quickly installs in all weather conditions

Easily removed, reused, or recycled

### Compatible Substrates

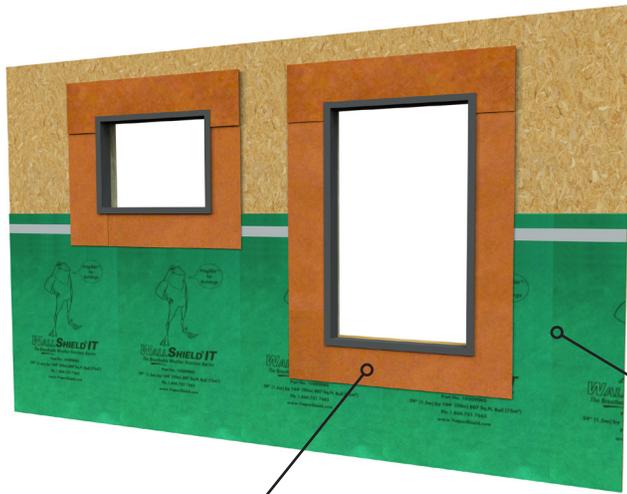
- OSB
- Exterior Gypsum Sheathing
- Rigid Insulation
- Precast Concrete
- Concrete Block
- Cast-in-place Concrete
- Plywood
- Pre-painted Steel
- Galvanized Metal
- Aluminum (Painted/Mill Finish)
- Anodized Aluminum
- Vinyl Window and Door Frames
- Fiberglass Window and Door Frames
- Mass Timber

Contact VaproShield Technical – if you have additional substrate questions.

### Technical Data & Environmental

Passed and tested to industry standards for Weather Resistive Barriers.

WallShield IT Integrated tape emits zero VOCs, making the membrane safe for work crews and occupants for the life of the building.



## Complete Building Envelope System

WRB WallShield IT Integrated Tape

### ROUGH OPENING FLASHING OPTIONS

The following rough opening flashing components can be used:

- VaproLiqui-Flash™
- BlockFlashing™ or WrapFlashing SA™
- VaproBond™

Reference individual data sheets for comprehensive information.

Rough Opening Flashing Membranes		
Product	Part No.	Roll Sizes
WrapFlashing SA Self-Adhered Roll	46105590	Roll Size: 11 3/4" x 164" (298mm x 50m) 161 S/F (15 S/M)
	46108090	Roll Size: 19 2/3" x 164" (500mm x 50m) 269 S/F (25 S/M)

### BEST PRACTICE INSTALLATION



Secure membrane with stainless steel staples above integrated tape. Align the bottom of the upper course with the dotted line for proper 6" (15 cm) overlap.



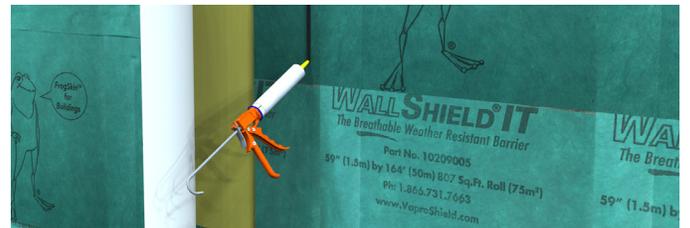
Tape seals horizontal seams. The upper course is properly shingled over the lower course, eliminating water concerns at the horizontal joints.

### In conjunction with:

Window and Rough Openings Flashing	VaproLiqui-Flash	BlockFlashing	VaproBond
Application Temperature	35°F to 110°F (1.7°C to 43°C)	0°F to 180°F (-18°C to 82°C)	20°F to 120°F (-6.7°C to 49°C)
Drying Capacity	High	None	Low
Breathable Permeability			
Application Method	Sausage Gun / Putty Knife or Brush	Utility Knife / J-Roller	Sausage Gun / Putty Knife

Visit [VaproShield.com](http://VaproShield.com) to review additional flashing options.

### BEST PRACTICE VERTICAL SEAMS



Overlap vertical seams by a min. 12". Apply 1/4" (6.4mm) bead of VaproBond adhesive to ensure water and air barrier seal. For complete installation instructions, visit [VaproShield.com](http://VaproShield.com)

# PRODUCT DATA SHEET

WallShield IT Product No.: 10208905 / WrapFlashing SA, Product No.: 46105590 / 46108090

## Mass Timber Beam and Framework Protection



Durable and abrasion resistant, WallShield IT quickly installs in all weather conditions, and is easily removed, reused or recycled to showcase the beauty of the wood.

WallShield IT (green) protects the mass timber structure against moisture infiltration, reducing structural compromise from wetting.



With a drying capacity of 123 perms, the framework dries out quickly and is less susceptible to ongoing wetting issues from weather events.

*Visit [VaproShield.com](http://VaproShield.com) to view full installation sequence*

### RELATED LEED CREDITS

VaproShield membranes qualify for LEED credits. Visit [VaproShield.com](http://VaproShield.com) for the latest sustainability and LEED information.

### Installation

#### STORAGE AND HANDLING

Store material rolls on end in original packaging. Protect rolls from direct sunlight and inclement weather until ready for use.

#### SAFETY

Work crews are safe around VaproShield membranes. WallShield IT Integrated Tape contains zero VOCs or toxins.

#### PREPARATION

Fill voids and gaps in substrate greater than 7/8 inch (22.2 mm) in width to provide an even surface.

#### WALL BEST PRACTICE INSTALLATION

**Install** WallShield IT with approved fasteners in a horizontal, shingle fashion.

**Horizontal overlaps must be 6"** (15 cm) to properly seal the integrated tape joint.

**Vertical overlaps must be minimum 12"** (30 cm) and require VaproBond adhesive sealant.

**Vertical overlaps are to be staggered** a minimum of 24" (61 cm) and should not occur directly above or below windows or doors.

**Inside and outside corners can be continuous**, or if a vertical joint occurs within 24" horizontally, an overlap of 12" minimum in both directions is required, providing a double layer at the corner."

Visit [www.VaproShield.com](http://www.VaproShield.com) for complete installation instructions and instructional videos.

#### LIMITATIONS

WallShield IT Integrated Tape should be covered within 180 days of installation.

Do not contaminate WallShield IT Integrated Tape membrane with building site chemicals which make it more wettable (e.g., surfactants). This will adversely affect its water resistance and therefore its contribution to the water resistance of the overall wall system.

Flash fenestrations per window and door manufacturers' recommendations, local building code requirements, ASTM and AAMA guidelines.

If desired adhesion is not attained between membranes due to site conditions, VaproShield recommends applying a bead of VaproBond as an additional solution to pressure rolling.

### Availability

VaproShield products are available throughout North America, Central and South America, and New Zealand.

### Warranty

A 20-year material warranty is available.

# PRODUCT DATA SHEET

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PHYSICAL PROPERTIES	
PROPERTY	RESULT
Color	Green (top), White (back)
Thickness	0.56 mm (22 mil)
Membrane Weight	191.4 g/m <sup>2</sup> (0.627 oz/ft <sup>2</sup> )
Roll Weight	34 lbs (15 kg)
Roll Dimensions	59" x 164' (1.5m x 50m)
Roll Coverage	807 sq. ft. (75 sq. m.)
Skid	20 Rolls
VOCs	None
Ultra Violet Light Exposure	180 days maximum
Minimum Application Temperature	Unlimited
Warranty	20 year material warranty
Service Temperature	minus 40°F (-40°C) - 183°F (84°C)

TESTING DATA		
PROPERTY	STANDARD	RESULT
<b>Strength</b>		
Dry Tensile Strength	ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting	MD - 6 N/mm (34 lb/in) XMD - 4 N/mm (23 lb/in)
Dry Breaking Force (Grab method) MD ≥40 XMD ≥35	ASTM D5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)	MD - 423 N (95 lbf) XMD - 344 N (77 lbf)
Cold Mandrel Bend Test	AC38 Section 3.3.4	MD - no cracks PASS XCD - no cracks PASS
<b>Water Vapor Transmittance</b>		
Water Vapor Transmission Desiccant Method, Procedure A, 24.4°C (76.0°F) 50 %RH	ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials	82 Perm (grain/h•ft <sup>2</sup> •inchHg) 4692 ng/Pa•s•m <sup>2</sup>
Water Vapor Transmission Desiccant Method, Procedure B, 24.4°C (76.0°F) 50 %RH	ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials	123 Perm (grains/hr•ft <sup>2</sup> •inchHg) 7037 ng/Pa•s•m <sup>2</sup>
Water Vapor Transmission Dynamic Relative Humidity Measurement (23°C 50 %RH)	ASTM E398 Standard Test Method for Water Vapor Transmission Rate of Sheet Materials Using Dynamic Relative Humidity Measurement	161 Perm (grain/h•ft <sup>2</sup> •inchHg) 9211 ng/Pa•s•m <sup>2</sup>
<b>Water Resistance Testing</b>		
Water Resistance (Control after Weathering)	AATCC 127 Hydrostatic pressure test (550 mm water column for 5 hours), American Association of Textile Chemists and Colorists	Control - No leakage Weathered - No Leakage
<b>Fire Testing</b>		
Flame Spread Smoke Developed	ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials	Flame Spread 5 Smoke Developed 70