



1. Product Name

WallShield® IT Integrated Tape
Water Resistant Vapor Permeable Sheet
Membrane

2. Manufacturer

VaproShield, LLC.
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3. Product Description

BASIC USE AND APPLICATIONS

WallShield IT Integrated Tape is a primary, water resistant, vapor permeable, air permeable, mechanically attached sheet underlayment for rain screen building enclosure designs. WallShield IT Integrated Tape is used above grade, behind common wall cladding systems such as composite panels, metal siding, wood siding and masonry veneers within a rain screen assembly.

BENEFITS

WallShield IT Integrated Tape is a vapor and air permeable, Water Resistant Barrier (WRB) with Integrated Tape and a pre-marked horizontal Shingle Lap Line. The incorporation of the integrated tape and the pre-marked shingle lap line at the horizontal seams ensures the desired "weatherboard" or "shingle" installation, creating a superior mechanically attached weather resistant barrier. Having the highest vapor permeance in the industry, WallShield IT Integrated Tape can be installed in wet weather, keeping building schedules on time, while drying the building in and allowing saturated substrates to breathe or "dry-out" quickly. Rapid drying time is essential to prevent mold, mildew and rot.

MATERIAL

WallShield IT Integrated Tape is manufactured from 100% spun bonded, high density polypropylene fabric with a multi-layered construction to achieve the ideal combination of performance characteristics. WallShield IT Integrated Tape has the following attributes: vapor permeable, air permeable, high water resistance, UV stabilized, tear resistant, mold resistant, and has Zero VOC's.

ROLL SIZE: 59 inches by 164 Feet (1.5 m x 50 m)

4. Technical Data

Tested to the following industry standards:

Acceptance Criteria for Water Resistant Barriers (AC 38), and ASTM E2556 (Standard Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment).

SUSTAINABLE DESIGN BENEFITS

WallShield IT Integrated Tape can remain exposed to UV for up to a maximum of 6 Months (180 days) prior to installation of cladding systems. WallShield IT Integrated Tape membrane is 100 percent recyclable and contributes to LEED points and WallShield IT Integrated Tape is available with a 20 Year Product Warranty.

KEY TEST HIGHLIGHTS

PROPERTY	STANDARD TEST	RESULT
Roll Length		164' (50 m)
Roll Width		59" (1.5 m)
Nominal Thickness		23 mil (0.59 mm)
Roll Weight		34 Lbs (15 kg)
Water Resistance	AATC - 127	PASS (22 inch head of water – 5 hours)
Water Vapor Transmission	ASTM E398 as per ASTM E96* (Water Method)	142.46 Perms 986.62 g/m ² •24 hrs
Tensile Strength	ASTM D882	MD 31.1 lbf/in (5.44 N mm) CD 29.8 lbf/in (5.22 N mm)
Breaking Force	ASTM D5034	MD 103 lbf (458 N) CD 108 lbf (480 N)
Low Temp Flexibility	AC38, Section 3.3.4	PASS
Weathering	AC38, Section 4.1	PASS
Flamespread Index	ASTM E84	0 -Class A
Smoke Developed Index	ASTM E84	65 – Class A

*ASTM E96 - Method B (wet cup method) typically gives a more realistic result for permeance than does the Method A (dry cut/desiccant) method.

FASTENING GUIDELINES

- WallShield 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

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 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 WallShield IT Integrated Tape WRB 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

- Always install WallShield IT Integrated Tape in a "weatherboard" or "shingle fashion" with the upper courses lapped on top of the courses below, using integrated tape and pre-marked shingle lap lines at horizontal seams.
- Vertical overlaps are to be 12" minimum. Vertical overlaps are to be staggered a minimum of 24" and should not occur directly above or below windows or doors.

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

- WallShield IT Integrated Tape must be covered within 180 Days (6 Months) of installation.
- Contamination of WallShield IT Integrated Tape membrane with building site chemicals may affect water hold out (e.g. surfactants).

Surfactants are present in many building site chemicals and contact should be avoided.

- The WallShield IT Integrated Tape membrane should not be subjected to asphaltic materials, chemicals, or cleaning compounds that could affect the water resistance of the fabric surface; if exposed, replace affected material.
- The WallShield IT Integrated Tape membrane shall not be subjected to paints, stains, sealers, adhesives, sealants, fire proofing, etc.; if exposed, replace affected material.

6. Availability

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

7. Warranty

A 20 Year Product Warranty is available.