

CanShield™ VP

a vapour permeable self-adhered water resistive air barrier Product No.: 14409090

CanFlashing™

Product No.: 48405500

Product Description

CanShield VP is a vapour permeable, self-adhered water resistive air barrier membrane that protects the building envelope by allowing vapour to pass through (breathable) but not air or liquid water.

BASIC USE

Designed for commercial and residential construction applications, CanShield VP creates a water resistive air barrier when applied outside of the wall sheathing and behind the exterior wall cladding. Used for transitions, rough openings, fenestrations, and full-wall applications.

MATERIALS

CanShield VP consists of multiple layers of spun-bonded polypropylene fabric with a specially formulated adhesive that firmly grips to substrates.

BENEFITS

Superior building envelope protection – superb drying capacity (25 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.

All season installation – membrane can be applied in virtually all weather conditions including below freezing; minus 6.6°C (20°F).

Aggressive adhesive ensures membrane adhesion on multiple substrate types including plywood, OSB, gypsum sheathing, concrete, and steel.

Six (6) month UV and weather exposure makes membrane ideal for long-term projects.

Air barrier – meets requirements as per the **CAN/ ULC S741-08, CAN/ULC S742-11, and ASTM E2178 / ASTM E2357** air barrier tests.

Fire testing - approved CAN/ULC S102

Compatible with all VaproShield rough opening flashing accessories eliminating the need for untested outside components.

Emits zero VOCs, contains no Red List Chemicals, ensuring crew safety and a healthy building.

Eliminates surface preparation, membrane can span gaps up to 22.2mm (7/8").

Compatible Substrates

- Exterior Gypsum Sheathing
- Rigid Insulation
- OSB
- Concrete
- Brick
- Plywood
- Metal (Steel, Aluminum)
- Fiberglass Window and Door Frames

Contact VaproShield Technical – if you have additional substrate or technical questions.

Technical Data & Environmental

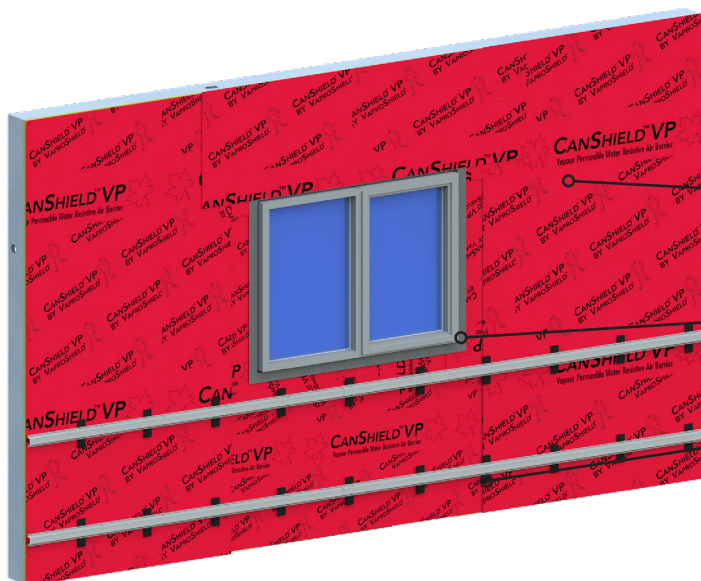
Tested and meets industry standards: **CAN/ ULC S741-08, CAN/ULC S742-11, CAN/ULC-S102, and ASTM E2178 / ASTM E2357** for air barrier and weather resistive barrier membranes and assemblies.

PHYSICAL PROPERTIES	
PROPERTY	RESULT
Color	Red
Thickness	0.75mm (30 mil)
Membrane Weight	249.6 g/m ² (0.818oz/ft ²)
Roll Weight (with release film)	25.9 kg (57.2 lbs)
Roll Dimensions	1.5m x 31m (59" x 164')
Roll Coverage	75m ² (807 ft ²)
Skid	16 rolls
VOCs	None
Field Exposure Before Permanent Cladding	6 months, 180 days
Minimum Application Temperature	minus 6.6°C (20°F) and rising
Service Temperature	-40°C (-40°F) 121°C (250°F)
Warranty	20 year material warranty

PRODUCT DATA SHEET

CanShield VP Product No.: 14409090/CanFlashing Product No.: 48405500

Complete Vapour Permeable Air Barrier System



AIR BARRIER / WRB:
CanShield VP

A ROUGH OPENING FLASHING OPTIONS

B RAIN SCREEN COMPONENTS:
VaproShim SA



A ROUGH OPENING FLASHING OPTIONS

The following rough opening flashing can be used:

- A1** VaproLiqui-Flash™
- A2** BlockFlashing™
- A3** VaproBond™

Reference individual data sheets for comprehensive information at VaproShield.com.

B RAIN SCREEN COMPONENTS

CanShield VP shall have ventilated, unimpeded vertical drainage cavity or rain screen system incorporated into all air barrier/WRB installations. VaproShim SA™ Self-Adhered is a corresponding accessory to accomplish this. View corresponding Product Data Sheet for in-depth information.

A CanFlashing		
Product	Part No.	Roll Size
CanShield VP Roll	48405500	298mm x 50m, 15 S/M (11 3/4" x 164', 160 S/F)

Window and Rough Openings Flashing	Vapro-Liqui-Flash	BlockFlashing	VaproBond
Application Temperature	1.7°C to 43°C (35°F to 110°F)	-6.6°C (20°F)	-6.7°C to 49°C (20°F to 120°F)
Drying Capacity	High	None	Low
Breathable Permeability			
Application Method	Sausage Gun / Putty Knife or Brush	Utility Knife / J-Roller	Sausage Gun / Putty Knife

Additional flashing options available at VaproShield.com

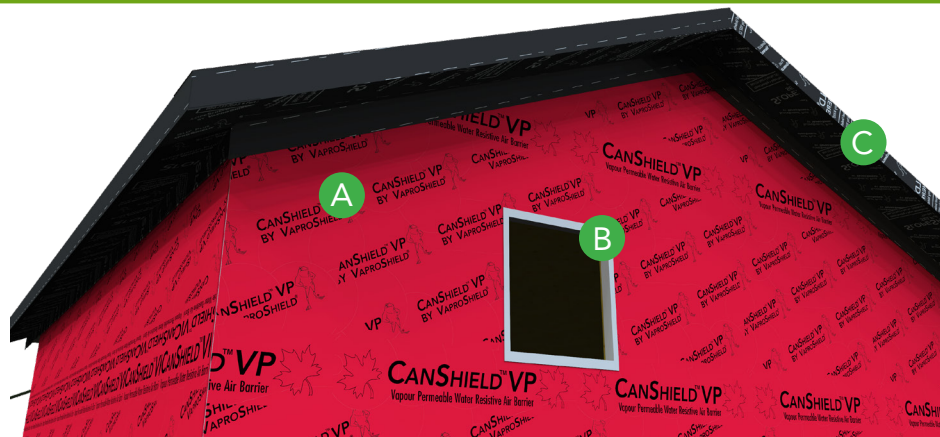


VaproShim SA™ Self-Adhered

Simple, cost effective neoprene accessory, creates a rain screen drainage plane and air/water tight seal for fastener penetrations, available in two thicknesses: 6mm (1/4"), 3mm (1/8")

Visit VaproShield.com to review other air barrier WRB solutions that offer sustainability attributes and for use with open joint cladding.

Complete Vapour Permeable Air Barrier System



A **CanShield VP™** air and water resistive membrane installed on the walls, can be exposed to all types of weather elements up to 6 months before final closed joint cladding is installed.

B **CanFlashing™**, pre-cut field membrane, combined with VaproBlock-Flashing™ creates a cost effective rough opening solution.

C Add **SlopeShield Plus Self-Adhered** roofing underlayment and create a truly air and watertight wall assembly with drying capacity to mitigate moisture damage.

RELATED LEED CREDITS

VaproShield membranes qualify for LEED credits. Visit VaproShield.com for the latest sustainability and LEED information.

Installation

STORAGE AND HANDLING

Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 49 °C (120 °F). In cold weather, it is recommended to warm rolls to 10 °C (50 °F) or above prior to application to assure adhesion to substrate.

SAFETY

Work crews are safe around VaproShield membranes. CanShield VP contains zero VOCs or toxins.

PREPARATION

All surfaces must be dry, sound, clean, "as new" condition, and free of oil, grease, dirt, excess mortar or other contaminants detrimental to the adhesion of the water resistive air barrier membrane and flashings. **CanShield VP is installed on most substrates without primer. Specific jobsite conditions may require additional surface preparation with primer, contact VaproShield Technical.** Fill voids and gaps in substrate greater than 22.2 mm (7/8") in width to provide an even surface. Strike masonry joints full-flush.

BEST PRACTICE INSTALLATION

All overlaps must be a minimum of 8cm (3") on vertical and horizontal seams. Inside and outside vertical corner overlaps should be a minimum 15cm (6") in both directions, staggered a minimum of 61cm (24"), and should not occur directly above or below windows or doors. Visit www.VaproShield.com for complete installation instructions and details.

Minimum application temperature of -6.6°C and rising.

LIMITATIONS

CanShield VP should be covered within 180 days of installation.

Do not contaminate CanShield VP 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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TESTING DATA		
PROPERTY	STANDARD	RESULT
Strength		
Dry Tensile Strength ≥ 20 lbf/in	ASTM D828 Standard Test Method for Tensile Properties of Paper and Paperboard Using Constant-Rate-of-Elongation Apparatus	6.1 N/mm(34.8 lbf)
Dry Breaking Force (Grab method) MD ≥180 N (40 lbf), XMD ≥160 N (35 lbf)	ASTM D5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)	MD - 391 N (88 lbf) XMD - 369 N (83 lbf)
Cold Mandrel Bend Test	AC38 Section 3.3.4	Warp (Machine) Direction - No cracking Filling (Cross) Direction - No cracking
Weathering Tests	AC38 Section 4.1.2 UV Exposure AC38 Section 4.1.3 Accelerated Aging	UV - No visual change UV & Accelerated - visibly lighter, no visible deterioration
Water Vapor Transmittance		
Water Vapour Transmission Desiccant Method, Procedure A, 24.4°C (76.0°F) 50 %RH	ASTM E96 Standard Test Methods for Water Vapour Transmission of Materials	8.5 Perm (grain/h•ft²•inchHg) 486 ng/Pa•s•m²
Water Vapour Transmission Water Method, Procedure B, 24.4°C (76.0°F) 50 %RH	ASTM E96 Standard Test Methods for Water Vapour Transmission of Materials	24 Perm (grains/hr•ft²•inchHg) 1373 ng/Pa•s•m²
Water Vapour Transmission Dynamic Relative Humidity Measurement (23°C 50 %RH)	ASTM E398 Standard Test Method for Water Vapour Transmission Rate of Sheet Materials Using Dynamic Relative Humidity Measurement	20.47 Perm (grain/h•ft²•inchHg) 1171 ng/Pa•s•m²
Air Resistance Testing		
Air Permeance	ASTM E2178 @75 Pa Standard Test Method for Air Permeance of Building Materials	0.0014 L/(s m²) @ 75 Pa (0.000276 cfm/ft² @ 1.57 psf)
Air Barrier	ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies	0.0194 L/(s•m²) at 75 Pa (0.0039 cfm/ft² @ 1.57 psf)
Air Permeance	CAN/ULC-S741-08 (2020) Standard for Air Barrier Materials	PASS
Air Leakage Rate	CAN/ULC-S742-11 Standard for Air Barrier Assemblies	Class A1
Adhesion Testing		
Peel Adhesion	AAMA 711	PASS
Water Resistance Testing		
Nail Sealability	ASTM D1970/ section 7.9 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection	Pass - Review Fastener Penetrations Technical Bulletin at VaproShield.com
Water Resistance (Boat Test)	ASTM D779 Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method (Withdrawn 2011)	Control - No leakage Weathered - No Leakage
Water Resistance (Control after Weathering)	AATCC 127 Hydrostatic pressure test (550 mm water column for 5 hours), American Association of Textile Chemists and Colourists	Control - No leakage Weathered - No Leakage
Fire Testing		
Flame Spread Smoke Developed	ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials	Flame Spread 10 Smoke Developed 10
Surface Burning Characteristics	CAN/ULC-S102 Protective Underlayment, Permeable to Allow Drying, Provides an Air Barrier	Flame Spread Rating: 5 Smoke Developed Value: 20