

BlockShield™ SA for Walls

a self-adhered air, water, and vapor barrier membrane:

Roll Size: 59" Product No.: 37509000, Roll Size 29.5" Product No.: 37503400

BlockFlashing

a self-adhered air, water, and vapor barrier flashing:

Product No: 42505000, 42505500, 42507000

Product Description

BlockShield SA is a self-adhered, non-asphaltic, durable, air, water, and vapor barrier membrane with an aggressive pressure-sensitive adhesive that does not require a primer and is easily applied to most construction substrates.

BASIC USE

Designed for use in commercial and residential construction applications, BlockShield SA creates a barrier against water, air, and moisture infiltration when applied in a rainscreen assembly behind exterior cladding.

MATERIALS

BlockShield SA consists of a proprietary film with a pressure-sensitive adhesive.

BENEFITS

Impermeable to air, moisture vapor, and water.

Non-asphaltic product.

12 month UV and weather exposure makes membrane ideal for long-term projects.

All weather installation membrane can be applied in virtually all weather conditions including below freezing 20°F (minus 6.6°C) and rising without the use of primer.

Durable, tear resistant, and flexible at low temperatures.

Compatible with many building sealants: no adverse reaction with synthetic rubber, butyl, polyurethane, silicone and silane terminated hybrid sealants.

Ensures crew safety and a healthy building, no VOC exposure, no Red List Chemicals, no primers, or protective gear required for installation.

STORAGE AND HANDLING

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

DETAILS

Visit www.VaproShield.com for complete installation instructions and details.

Compatible Substrates

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

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

Environmental

No Red List Chemicals. Contains 18-20% post industrial recycled content.

Availability

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

Warranty

A 20-year material warranty is available.

Technical Data

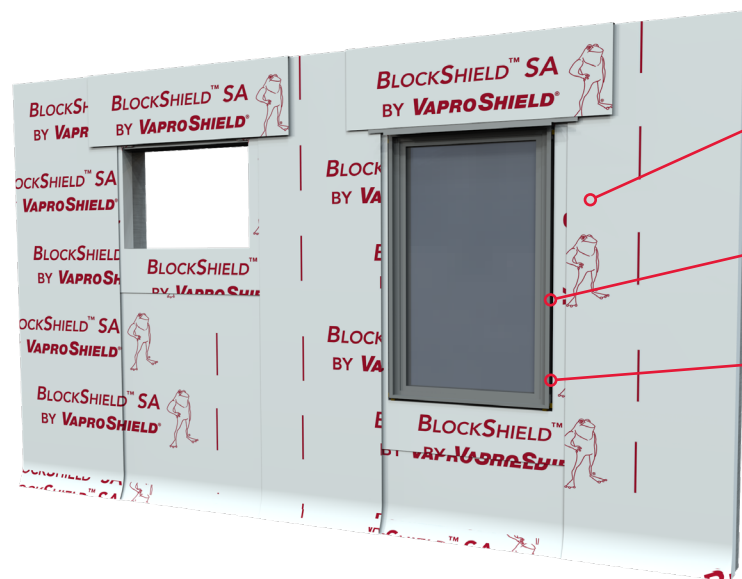
Tested and meets industry standards: **CAN/ ULC S741-08, CAN/ULC S742-11, and ASTM E2178 / ASTM E2357** for air barrier and weather resistive barrier membranes and assemblies.

PHYSICAL PROPERTIES	
PROPERTY	RESULT
Color	White
Thickness	10.2 mil (0.26 mm)
Membrane Weight (without release film)	0.95 oz/yd² (289 g/m²)
59" Roll Weight (with release film)	47 lbs (21 kg)
29.6" Roll Weight (with release film)	24 lbs (11 kg)
Roll Dimensions	59" x 100' (1.5 m x 30.5 m) 29.5" x 100' (.75 m x 30.5 m)
Roll Coverage	59" 492 ft² (45.7 m²) gross 29.5" 246 ft² (22.8 m²) gross
Primer	No Primer Required
VOCs	None
Field Exposure Before Permanent Cladding	12 months
Minimum Application Temperature	20°F (minus 6.6°C)
Service Temperature	minus 40°F (-40°C) - 200°F (93.3°C)
AAMA 711-13	Compliant
Warranty	20 years

PRODUCT DATA SHEET

BlockShield SA - 59" Roll Product No.:37509000, 29.5" Roll Product No.:37503400


Air, Water and Vapor Barrier Flashing System



BlockShield SA properly shingled and applied directly to the sheathing

Window with sealant joint and backer rod (by others)

BlockFlashing properly shingled and applied directly to the sheathing

BlockFlashing		
Product	Part No.	Roll Sizes
	42505000	6 1/2" x 100' (54 S/F) (.17m x 30.5m, 5 S/M)
	42505500	11 3/4" x 100', 98 S/F (.3m x 30.5m, 9.1 S/M)
	42507000	14 3/4" x 100', 123 S/F (.37m x 30.5m, 11.4 S/M)

RELATED LEED CREDITS

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

Installation

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. Fill voids and gaps in substrate greater than 7/8 inch (22.2 mm) in width to provide an even surface. Use roller to activate pressure-sensitive adhesive. Best practice is to cover flashing as soon as practical.

BEST PRACTICE INSTALLATION

Store material in original packaging. Protect rolls from direct sunlight and inclement weather until ready for use. All overlaps must be a minimum of 3" (8 cm) on vertical and horizontal seams. Inside and outside vertical corner overlaps should be a minimum 6" (15 cm) in both directions. Vertical seams should be staggered a minimum of 6" (15 cm), and should not occur directly above or below windows or doors. Use a roller to activate pressure-sensitive adhesive.

Visit www.VaproShield.com for complete installation instructions and details.

LIMITATIONS

BlockShield SA should be covered within 12 months of installation.

Do not contaminate BlockShield SA 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.

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TESTING DATA		
PROPERTY	STANDARD	RESULT
Strength		
Elongation	ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	MD - 409% XMD - 276%
Tensile Strength	ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	MD - 16.96 MPa (2460 psi) XMD - 11.87 MPa (1721 psi)
Dry Tensile Strength	ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting	MD - 3.85 N/mm (22 lbf/in) XMD - 3.85 N/mm (22 lbf/in)
Elongation at Break	ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting	MD - 541% XMD - 617%
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 - 338 N (76 lbf) XMD - 356 N (80 lbf)
Elongation at Break	ASTM D5034 Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)	MD - 120% XMD - 157%
Minimum Puncture Resistance	ASTM E154 Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover	Deflection 5.84 cm (2.3") Max Load 249 N (56 lbf)
Cold Mandrel Bend Test	AC38 Section 3.3.4	PASS
Weathering Tests	AC38 Section 4.1.2 UV Exposure AC38 Section 4.1.3 Accelerated Aging	PASS
Water Vapor Transmittance		
Water Vapor Transmission Desiccant Method Procedure A 23°C (73.4°F) 0-50 %RH	ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials	0.0173 Perm (grain/h•ft²•inchHg) @23°C 100%RH 0.992 ng/Pa•s•m²
Water Vapor Transmission Using Modulated Infrared Sensor	ASTM F1249 Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.0193 Perm (grain/h•ft²•inchHg) 1.10 ng/Pa•s•m² (23°C 0-50 %RH)
Air Resistance Testing		
Air Permeance	ASTM E2178 @75 Pa Standard Test Method for Air Permeance of Building Materials	0.00912 L/s•m² @ 75 Pa (0.0018 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
Water Resistance Testing		
Nail Sealability	ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection Section 7.9 referring to ASTM D7349 protocol 4 with modifications	PASS
Water Resistance (Control after Weathering)	AATCC 127 Hydrostatic pressure test (550 mm water column for 5 hours), American Association of Textile Chemists and Colorists	PASS
Fire Testing		
Flame Spread Smoke Developed	ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials	Class A Flame Spread 5 Smoke Developed 15
Surface Burning Characteristics	CAN/ULC-S102 Protective Underlayment, Permeable to Allow Drying, Provides an Air Barrier	Flame Spread Rating: 5 Smoke Developed Value: 15