

## VaproSmart ICL

an interior air barrier and smart vapor retarder sheet membrane.

Roll Size: 9'8" Product No.: 55879556  
 Roll Size: 59" Product No.: 55879000



### Product Description

VaproSmart ICL is an interior air barrier and smart vapor retarder sheet membrane. It dynamically adjusts to mitigate moisture vapor based on the surrounding humidity levels, allowing moisture to escape while simultaneously protecting the interior wall cavity.

#### BASIC USE

VaproSmart ICL is a high-performance interior air barrier and variable vapor control membrane designed for commercial and residential construction applications. Installed on the interior side of wall and roof assemblies, it provides continuous air control and dynamic moisture management in a single product.

#### MATERIALS

Polyamide film combined with protective nonwoven layer.

#### BENEFITS

**Smart vapor control dynamically** adjusts to manage moisture vapor based on the surrounding humidity levels.

**Manages mold and mildew** by blocking moisture-laden air from accumulating in walls, ceilings, and floor cavities.

**Improves energy efficiency** by blocking air movement, helping to maintain thermal insulation performance and preventing heat loss/gain, contributing to lower energy consumption.

**Compartmentalization limits air movement** between spaces, reducing the transfer of moisture, odors, and sound between units.

**Optimized for cold and mixed climates**, it combines airtightness with inward drying to enhance energy efficiency and long-term enclosure performance.

### Compatible Assemblies

Metal and wood stud framing.

### Related LEED Credits

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

#### SAFETY

Read the full label and SDS for precautionary instructions before use. Use proper safety equipment and jobsite controls during application and handling.

Work crews are safe around VaproShield membranes.

VaproSmart ICL contains zero VOCs or toxins.

### Technical Data

Tested to industry standards for air barrier.

PHYSICAL PROPERTIES	
PROPERTY	RESULT
Color	Translucent
Thickness	0.1767 mm (6.955 mil)
9'8" Roll Dimensions	9'8" x 98' (3m x 30m) 968 ft <sup>2</sup> (90 m <sup>2</sup> )
59" Roll Dimensions	59" x 98' (1.5m x 30m) 484 ft <sup>2</sup> (45 m <sup>2</sup> )
Variable Vapor Permeance (EN 12572)	0.18-17 perms
Warranty	20 Year Warranty

### Installation

#### STORAGE AND HANDLING

Store roll materials in original packaging at temperatures between 40°F and 120°F (4°C - 49°C). Protect materials from direct sunlight and inclement weather until ready for use.

#### PREPARATION

Ensure framing is free of nails, splinters, and any protrusions that could damage the membrane.

Verify that framing and substrates are structurally sound and capable of supporting the air barrier system.

#### BEST PRACTICE INSTALLATION

Ensure seams, edges and penetrations are treated according to the installation guidelines to ensure a continuous air barrier.

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

#### LIMITATIONS

Do not contaminate VaproSmart ICL membrane with building site chemicals which make it more wettable (e.g., surfactants).

### Availability

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

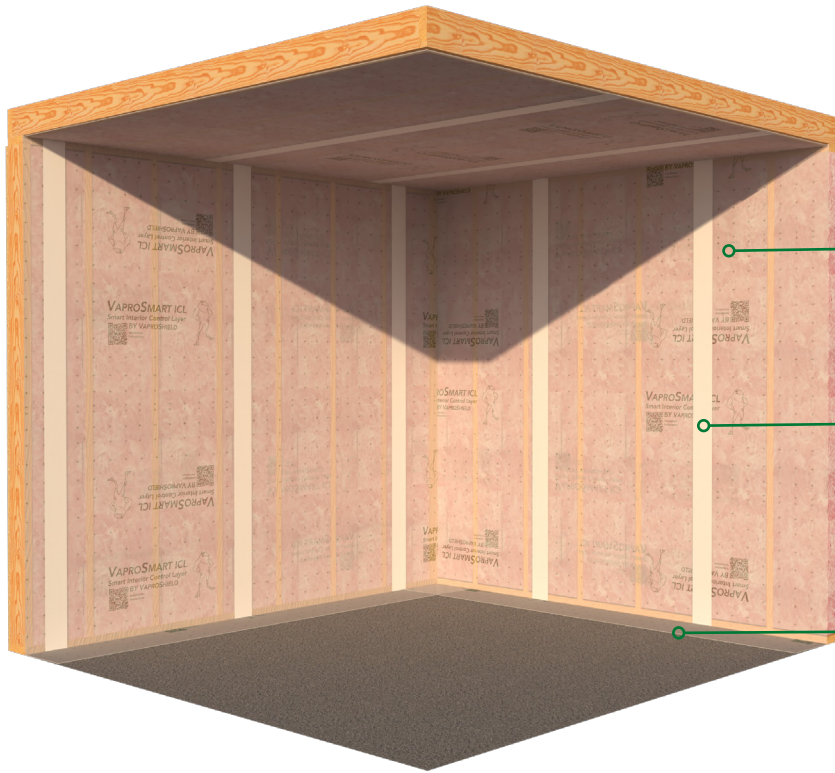
### Warranty

A 20-year material warranty is available.

# PRODUCT DATA SHEET

VaproSmart ICL 9'8" Product No.: 55879556, 59" Product No.: 55879000

## Complete Interior Air Barrier and Smart Vapor Retarder System



VAPROSMART ICL  
INTERIOR AIR BARRIER,  
SMART VAPOR RETARDER

**A** TAPE OVERLAPS USING 4"  
VAPROFLASHING SA

**B** SEAL BASE OVERLAP USING  
VAPROAIRSEAL

### ROUGH OPENING, LAP AND SEAM OPTIONS

Rough Opening, Laps and Seams	 <b>VaproFlashing SA</b>	 <b>VaproAirSeal</b>
Part No.	42504590	60509800
Size	4" x 100' (0.10m x 30.5m) 33.3 S/F (3.1 S/M)	20 oz. (0.59 l)
Primary Use	Rough openings, edge sealing, penetrations	Rough openings, edge sealing, penetrations
Application Temperature	20°F to 180°F (-6.6°C to 82°C)	40°F (4.4°C)
Application Method	Roller for adhesive	Sausage Gun / Putty Knife or Brush

Visit [VaproShield.com](http://VaproShield.com) for details.

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TESTING DATA		
PROPERTY	STANDARD	RESULT
<b>Strength</b>		
Tensile Strength	ASTM D828 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension	Machine Direction: 2.7 N/mm (15 lbf/inch) Cross Direction: 1.9 N/mm (11 lbf/inch)
Pliability	CAN/CGSB 51.33 M89 Vapour Barrier Sheet, Excluding Polyethylene, for Use in Building Construction	No Cracks
<b>Water Vapor Transmission</b>		
Water Vapor Transmission Desiccant Method Procedure A	ASTM E96 Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Before Aging: 0.355 Perm (grain/h•ft <sup>2</sup> •inchHg) 20 ng/Pa•s•m <sup>2</sup> (23°C 0-50 %RH) After aging: 0.438 Perm (grain/h•ft <sup>2</sup> •inchHg) 25 ng/Pa•s•m <sup>2</sup> (23°C 0-50 %RH)
Water Vapor Transmission Using a Modulated Infrared Sensor	ASTM F1249 Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor	0.34 Perm (grain/h•ft <sup>2</sup> •inchHg) 19 ng/Pa•s•m <sup>2</sup> (23°C 0-50 %RH)
<b>Air Resistance Testing</b>		
Air Permeance	ASTM E2178 Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials	0.0017 L/s•m <sup>2</sup> @ 75 Pa (0.000335 cfm/ft <sup>2</sup> @ 1.57 psf)
<b>Water Resistance Testing</b>		
Water Resistance	AATCC 127 Hydrostatic pressure test (55 cm water column for 5 hours), American Association of Textile Chemists and Colorists	No leakage