

1. Product Name

WallShield®

2. Manufacturer

HEADQUARTERS
And WESTERN REGION
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3. Product Description

BASIC USE

WallShield is a breathable (moisture-permeable), water-shedding membrane that provides high-performance vapor control and a secondary weather barrier engineered for commercial applications.

COMPOSITION & MATERIALS

WallShield is manufactured from 100% flash spun bonded, high-density polypropylene fabric. It is bonded by heat and pressure without binders or fillers into tough, durable sheets. WallShield has a triple-layered construction to achieve the ideal combination of performance characteristics. WallShield meets the following basic criteria: vapor permeable, water resistant, wind resistant, UV stabilized, rot proof, and tear resistant.

SIZES

WallShield
• 59" x 164'

4. Technical Data

APPLICABLE STANDARDS

American Association of Textile Chemists & Colorists (AATCC)
AATCC-127-Water Resistance: Hydrostatic Pressure Test.
American Society for Testing & Materials (ASTM)
• ASTM E84-00a Standard Test Method for Surface Burning characteristics of Building Materials
• ASTM E96 for Water Vapor Transmission of Materials

ISO 5363:3 1992, Mean Air Permeance.

APPROVALS

- International Conference of building Officials (ICBO) Evaluation Report WallShield has met the criteria and is in the process of formal approval.

5. Installation

DELIVERY & SITE HANDLING

Rolls of WallShield are delivered to site individually wrapped in a polythene sleeve.

Rolls should be stored on a clean, level surface – either flat or upright – and kept under cover.

WALLSHIELD INSTALL METHODS

Always install WallShield green* side out. For attachment to wood, insulated sheathing board or exterior gypsum board, fasten WallShield using nails with plastic washers or stainless steel staples (minimum 1" crown). For steel frame construction, use screws with washers.

Step One

Begin at a corner of the building, leaving approximately 6" - 12" of WallShield beyond the corner edge for later overlap. Hold roll vertically and unroll for a short distance. Make sure the roll is plumb and the bottom edge runs along the foundation line. Fasten the WallShield to the corner edge of the building.

Step Two

Best practice: bottom edge of the WallShield® should always extend over the sill plate interface, especially when a sill sealer is not being used. Secure the WallShield to the foundation with a polyurethane or latex-base joint sealer.

Step Three

Unroll a few feet of WallShield™ at a time. Be careful to follow line of foundation. Fasten the WallShield every 12" to 18" on the vertical studs.

Step Four

WallShield should be cut to cover the interface of the upper and lower top plates. WallShield on upper floors should overlap the WallShield on the lower floors by roughly 6".

Step Five

Refer to installation guide, utilizing simple rain screen construction for flashing window and door openings, when using WallShield.

Step Six – Material Laps

Tape is utilized if laps are less than 6" horizontally and 12" vertically. Please refer to installation instructions.

PRECAUTIONS

WallShield should be covered within nine months of installation. A complete installation guide is available.

Laying lightweight membranes in high wind conditions is difficult. Appropriate precautions should be taken during installation.

Attention to detail is important. Always look for and eliminate or mitigate blockages that could prevent the free drainage of water.

Contamination of WallShield chemicals with building site chemicals which make it more wettable (e.g., surfactants), adversely affects its water resistance and therefore its contribution to the water resistance of the overall wall system.

6. Availability & Cost

AVAILABILITY

WallShield is widely distributed throughout the United States.

COST

Contact your nearest VaproShield representative for local cost and delivery information.

For more information or the name of your nearest representative, call:

1-866-731-7663, toll-free from the United States, from 8AM-5PM (PST)..
You may also refer to
www.vaproshield.com.

WALLSHIELD® APPROVALS and TESTING

ACCEPTANCE CRITERIA FOR WEATHER RESISTIVE BARRIERS AC 38 (POLYMERIC-BASED BARRIERS)

PROPERTY	STANDARD/TEST	RESULT
Tensile Strength	ASTM D882	MD – 28.2 lbf/inch (4.94 N/mm) CD – 22.6 lbf/inch PASS
Water Resistance (control and weathered specimens)	AATCC 127 (55cm hydrostatic head of water for 5 hrs)	No leakage noted on underside of control or weathered samples PASS
Water Vapor Transmission	ASTM E96* (Method B)	1309.7 g/m ² 24hrs 12126.4 ng/Pa/s/m ² 212 Perms PASS
Low Temperature Bend	5 specimens bent over a 1/16 inch mandrel at 32°F	No cracking or de-lamination noted. PASS

FIRE TESTING

PROPERTY	STANDARD/TEST	RESULT
Flamespread Index	ASTM E-84	5 – Class A PASS
Smoke Development Index	ASTM E-84	70 – Class A PASS

INDEPENDENT TESTING

PROPERTY	STANDARD/TEST	RESULT
Nominal Thickness	Calibrated Deadweight Micrometer	0.023 inch (0.58mm)
Basis Weight	Electronic Weigh Scale	5.16 oz/yd ² (0.55 oz/ft ²) 175g/m ²
Drying Rate Analysis of Wet Plywood & OSB**	Water Loss (g) Over 100 hrs at 70°F, 50% RH	280 grams of water vapor lost through WallShield membrane (3.5 times nearest competitor)

Tested in accordance with ICC-ES-AC 38 criteria to meet IBC and IRC requirements for Weather Resistive Barriers (ICC Certificate #ESR-1916).

***ASTM E 96 - Method B (wet cup method) typically gives a more realistic result for permeance of highly permeable products than does the Method A (dry cup/desiccant method).**

****Test report available for review from VaproShield LLC**

REFERENCES

AATCC - American Association of Textile Chemists & Colorists
ASTM - American Society for Testing & Materials
ICC-ES-AC - International Code Council, Evaluation Service Report