

Water Alley 11mm Rainscreen Wall Drainage Mat

Description

Water Alley 11 mm is a nominal 11 mm thick drainage product consisting of a polypropylene core of fused entangled filaments and a geotextile fabric bonded to one side. **Water Alley 11 mm** is designed for use with traditional stucco, EIFS, cultured stone, and other wall cladding applications as an exterior wall drain. The rainscreen provides a drainage path & ventilation for incidental moisture between exterior wall finish materials and weather resistive barriers.

Water Alley 11mm has a filter fabric unique to the industry in that it resists liquid water penetration in a manner very similar to mainstream weather resistive barriers, providing much greater substrate protection than competitive mats with standard filter fabrics.

Recommended Applications

- *WaterWay Drainable Stucco Assembly*
- *Behind Traditional Cement Stucco*
- *Behind Manufactured Stone*
- *Behind EIFS*
- *Fiber-Cement Siding*
- *Lap Siding*

Features and Benefits

- Creates space for water drainage & ventilation
- 50 times faster at draining water than standard weather resistive barriers
- Filter fabric ensures a clear drainage path
- Filter fabric exceeds AC-38 acceptance criteria for “Water Resistive Barriers”
- Keeps wet claddings away from the building & weather resistive barriers
- 90% Open space within cavity
- Provides cushion between building & cladding assembly – Reduced cracking
- Class “A” Fire Rated
- LEED points / Green Build Advantage Excellent Durability _ Class*A* Fire Rated

Technical Data

Physical Properties	USA (metric)	WaterAlley 11mm
Core Material	Polypropylene	
Total Thickness	inches (mm)	.45 (11.5)
Total Weight	oz/yd ² (g/m ²)	15.48 (525)
Fabric Weight	oz/yd ² (g/m ²)	2.21 (75)
Matrix Weight	oz/yd ² (g/m ²)	13.27 (450)

Standard Packaging Information		
Product	USA (metric)	WaterAlley 11mm
Width (less flap)	inches (cm)	55.0 (140)
Width (with flap)	inches (cm)	58.0 (147)
Length	feet (meters)	100.0 (30.5)
Area	yd ² (m ²)	50.9 (42.5)
Roll diameter	inches (cm)	22.5 (56)
Gross roll weight	lbs (kg)	50 (22.7)

Filter Fabric Properties			
Test Method		USA (Metric)	WaterAlley 11mm
Polymer		Polypropylene	
Weight	EN 1849-1	oz/yd ² (g/m ²)	2.21 (75)
Mean Tensile Strength	EN 12311-1	Lbs/ft (kN/m)	181.58 (2.65)
Mean Elongation @ Break	EN12311-1	% (%)	75 (75)
Test Reports			
Hydrostatic Head Pressure	AATCC 127		10 cm / 18 hours (equal to 70-mph wind)
Acceptance criteria for WRB	AC-38		Sec. 4.2.2 Ponding water - Pass
Moisture vapor transmission	ASTM E-96		Exceeds 247 perms
Water resistance (Boat test)	ASTM D-779		Vapor transfer 12 min, no water after 96 hours
Fabric color		White	

Drain Flow Capacity			Deflection & Compression		
Load	Flow Rate		Pressure	Residual Thickness	
psf	l/(m*s)	Gal/min*ft		Inches	(mm)
418	4.20	20.29	209 psf	0.37	(9.50)
1044	1.50	7.25	418 psf	0.26	(6.50)
ASTM D 4716-04 EN ISO 12958			627 psf	0.22	(5.50)
			835 psf	0.20	(5.00)

Installation Procedure

These suggestions represent generally accepted procedures for successful installation. It may be followed, modified, or rejected by the owner, engineer, contractor or their representative to accommodate project specific requirements.

Prior to installation the contractor's responsibility is to ensure that:

1. The substrate is sound, that there are no voids or other protrusions or conditions that would interfere with the drainage plane. Acceptable sheathing types include code compliant exterior grade plywood, oriented strand board, water-resistant gypsum and others. Consult your local building code for approved materials.
2. The substrate is flat or plumb within 6.4mm (1/4 inch) in a 1.2m (4-foot) radius.
3. Windows and doors have been properly flashed and sealed and also that roof flashings have been properly installed. Refer to "Installation Guide for Flashing Windows/Doors (Available upon request).
4. Weather resistive barrier is properly installed to allow drainage without water penetration.

Attachment to Sheathing with Weather Resistive Barrier

1. For wall application work from bottom to top. Attach fabric side out with flap down to assure proper shingling. Wrap the building completely, butt tightly at all door, window and other building materials (electrical boxes, air conditioning units, etc...), stopping at all wall ends. Install drainage mat so that it lies flat against the wall with adequate corrosion resistant fasteners to hold in place until cladding material application is complete.
2. If specified cladding is stucco, EIFS or cultured stone veneer, at the bottom of the mat, place a foundation weep screed. Weather barrier and mat may be placed over top of the back leg of the weep screed to create the proper shingle effect and support moisture drainage.

Storage & Handling

Water Alley 11 mm should be stored at temperature between 50 degrees to 90 degrees, out of direct sunlight.