WaterWay 9714A
Rainscreen Drainage Mat

Description

WaterWay 9714A is a nominal 5/16 inch / 7mm thick drainage product consisting of a polymer core of fused entangled filaments bonded to a moisture resistant filter fabric on the outer surface. WaterWay 9714A is designed for use with manufactured and natural stone, traditional and one coat stucco, EIFS, fiber-cement, wood based sidings, masonry, metal and other wall cladding materials. This rainscreen product provides an uninterrupted drainage path & ventilation for incidental moisture between exterior finish materials and wall sheathing.

Waterway 9714A has a unique filter fabric bonded to the outer surface that resists liquid water penetration, providing greater substrate protection than competitive rainscreen mats.

(Exceeds ICC / IRC AC -38 acceptance criteria for Weather Resistive Barriers)

Recommended Applications

- *WaterWay Drainable Stucco Assembly*
- *Traditional Stucco*
- *Manufactured & Natural Stone*
- *EIFS*
- *Fiber-Cement & Lap Sidings*
- *Brick*

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

Technical Data			
Physical Properties	USA	(metric)	WaterWay9714A
Core Material	Polypropylene		
Total Thickness	inches	(mm)	.30 (7.5)
Total Weight	oz/yd^2	(g/m^2)	11.06 (375)
Fabric Weight	oz/yd^2	(g/m^2)	2.21 (75)
Matrix Weight	oz/yd^2	(g/m^2)	8.85 (300)

Standard Packaging Information			
Product	USA	(metric)	WaterWay 9714A
Width (less flap)	inches	(cm)	55.0 (140)
Width (with flap)	inches	(cm)	58.0 (147)
Length	feet	(meters)	115.0 (35)
Area	yd^2	(m^2)	58.6 (49)
Roll diameter	inches	(cm)	19.0 (48.0)
Gross roll weight	lbs	(kg)	50.0 (22.7)

Filter Fabric Properties			
	Test Method	USA (Metric)	WaterWay 9714A
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	

AC24* Drainage Test		
Time	Vert.	Horiz.
Calibration[1]	2.21 Gal.	2.25 Gal.
15 Min.	0.33 Gal.	0.34 Gal.
30 Min.	0.76 Gal.	0.77 Gal.
45 Min.	1.19 Gal.	1.22 Gal.
60 Min.	1.63 Gal.	1.66 Gal.
75 Min[2]	2.06 Gal.	2.10 Gal.
135 Min.	2.15 Gal.	2.19 Gal.
Efficiency[3]	97.63%	97.47%

Deflection & Compression		
Pressure	Residual thickness	
	Inches	(mm)
209 psf	0.260	(6.70)
627 psf	0..22	(5.50)
1253 psf	0.14	(3.50)
2089 psf	0.13	(3.40)

Flow Gal/Ft/Min	
Pressure	Gal/min*ft
418 psf	11.11
1044 psf	5.02

ASTM D 4716-04
EN ISO 12958

[1] Water flow without drain mat for 75min.
[2] Water flow turned off.
[3] Test requires 90% min.
* According to ICBO ES "Acceptance Criteria for Exterior Insulation & Finish Systems" AC24 Section 6.11 Oct. 1999.
<Average time from first water to first drain over 8 ft. Wall Panel is 91.5 seconds>

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

WaterWay 9714A should be stored at temperature between 50 degrees to 90 degrees, out of direct sunlight.