

# WaterWay 9010

## Rainscreen Drainage Mat

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### Description:

**WaterWay 9010** is a nominal 3/8 inch thick drainage product consisting of a nylon core of fused, entangled filaments and a geotextile fabric bonded to one side. **WaterWay 9010** is designed for use with traditional stucco, EIFS, manufactured 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. **WaterWay 9010** is also used as a means of relieving hydrostatic pressure from backfills abutting below grade structures, planters and plaza decks.

### Recommended Applications

- *WaterWay Drainable Stucco Assembly*
- *Behind Traditional Cement Stucco*
- *Behind Manufactured Stone*
- *Behind EIFS*
- *Metal Sidings*
- *Lap Sidings*
- *Fiber-Cement Siding*
- *Retaining Walls*
- *Exterior Planters*

### Features and Benefits

- Excellent durability – Class “A” Fire Rated
- Surpasses EIFS / AC-24 Drainage criteria
- Conforms to irregular surfaces with complete and effective coverage
- Continuous flow even under high loads
- Long rolls reduce installation costs by eliminating interlocking and excessive seams
- Dimensionally stable in hot weather – remains flexible in cold
- Continuous ventilation when properly designed - Equalizes pressure
- Redirects & draws moisture away from vulnerable wall sheathing materials
- Filter fabric assures drain path remains completely clear of stucco or mortar

Technical Data			
Physical Properties	USA	(Metric)	WaterWay 9010
Core Material	Nylon 6		
Thickness	inches	(mm)	0.4 (10.2)
Total Weight	Oz/yd <sup>2</sup>	(g/m <sup>2</sup> )	14.1 (478.0)
Core Weight	Oz/yd <sup>2</sup>	(g/m <sup>2</sup> )	10.9 (369.0)
Compressive Load Test <sup>1</sup>	PSF	(kn/m <sup>2</sup> )	>30,000 (1437.0) No Failure*
Durability Characteristics	80% Strength Retention		
Low Temperature	°F	(°C)	-100 (-73)
High Temperature	°F	(°C)	250 (121)
Fuel & Gasoline Submersion	Stable		
Fire Rating	NFPA Class A <sup>2</sup>		
Smoke Density	15		
Flame Spread	25		
Fuel Contribution	0		

<sup>1</sup> Test Method: ASTM 1621 modified & ASTM D 4716

<sup>2</sup> Will not promote flame spread

\* Failure defined as reaching yield point or no continued measurable flow under stated load.

Standard Packaging Information				
Product	USA	(Metric)	WaterWay 9010	
Core Width	inches	(cm)	39.0	(99.1)
Length	feet	(meters)	100.0	(30.5)
Area	yd <sup>2</sup>	(m <sup>2</sup> )	36.0	(30.1)
Roll Diameter	inches	(cm)	24.0	(61.0)
Gross Roll Weight	lbs	(kg)	36.0	(15.9)

Flow Rate*	
Pressure (psf)	Gal/Min/Ft
500	5.5
750	3.5
1000	2.5
1500	1.5
2000	1.0

\*Typical flow rate vs. pressure for vertical wall applications  
Hydraulic gradient 1.0 / sample configuration: plate / WaterWay 9010 / plate

Geotextile Fabric Properties				
	Test Method	USA	(Metric)	WaterWay 9010
Polymer		PA6 & PET		
Weight	ASTM D 3776	Oz/yd <sup>2</sup>	(g/m <sup>2</sup> )	3.2 (109)
Grab strength	ASTM D 4632	lbs	(N)	125.0 (556)
Grab elongation	ASTM D 4632	%	%	40.0 (40)
Trapezoidal tear	ASTM D 4533	lbs	(N)	40.0 (178)
Puncture resistance	ASTM D 4833	lbs	(N)	35.0 (155)
Mullen burst	ASTM D 3786	psi	(Kpa)	160.0 (1102)
AOS (maximum average)	ASTM D 4751		(mm)	(0.375)
Flow rate	ASTM D 4491	gpm/ft <sup>2</sup>	(l/sec/m <sup>2</sup> )	185.0 (125)
Permittivity	ASTM D 4491	sec <sup>-1</sup>	(sec <sup>-1</sup> )	2.5 (2.5)
Fabric color		Gray		

## 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.
4. Weather resistive barrier is properly installed to allow drainage without water penetration.

## Installation Procedure –Above Grade Walls

### 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, butting tightly at all doors, windows 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 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.

\* - Review Specifications & Details for additional installation procedures

## Storage & Handling –

WaterWay 9010 should be stored at temperature between 50 degrees to 90 degrees, out of direct sunlight.