WaterWay Plus

Rainscreen Drainage Mat

Description:

WaterWay Plus™ is a revolutionary **Patented** Vertical Wall Rainscreen Mat consisting of a nominal **7/16 inch / 11mm** thick extruded polymer matrix of tangled monofilaments. The monofilaments are heat laminated to a breathable, filter fabric on one side and **Typar** code compliant (NER-660, CCMC-12892R) weather resistive barrier on the other side. This multiple layer product creates a **one step weather resistive barrier and rainscreen drainage assembly** in a **single application**. WaterWay Plus 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. * Meets Canadian Code Requirements *

* The Only Rainscreen with a Weather Resistive Barrier, Drainage Core and Filter Fabric in a Single Application *

Recommended Applications

- *Waterway Drainable Stucco Assembly*
- *Cement Stucco*
- *Manufactured & Natural Stone*
- *Metal Panels*
- *Brick*
- *Masonry*
- *EIFS*
- *Fiber Cement Sidings*
- *Lap Sidings*

Features and Benefits

Creates space for water drainage & ventilation
50 times faster at draining water than standard weather resistive barriers alone
Filter fabric ensures a clear drainage path
Keeps wet claddings away from the building & weather resistive barriers
90% Open space within cavity
Provides cushion between building & cladding assembly – Reduced cracking
Meets Canadian Code Requirements
LEED Points / Green Build Advantage
Exceeds AC-24 drainage criteria for EIFS
Easily interfaced with adjacent material / through wall penetrations
Equalizes pressure
Price competitive vs. strapping / furring

Standard Packaging Information				
Product	**USA**	**(Metric)**	**Waterway Plus**	
Core Width	inches	(cm)	39.0	(99)
Length	feet	(meters)	100.0	(30.5)
Area	yd^2	(m^2)	36	(30.1)
Roll Diameter	inches	(cm)	30	(76)
Gross Roll Weight	lbs	(kg)	52.0	(24.0)

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 Plus/ plate

Technical Data		
Physical Properties	**USA (Metric)**	**Waterway Plus**
Core Material		Polypropylene
Thickness	In (mm)	0.45 (11.4)
Total Weight	Oz/yd^2 (g/m^2)	13.0 (440.9)
Core Weight	Oz/yd^2 (g/m^2)	8.0 (271)
Compressive Load[1]	psf (kn/m^2)	>30,000 (1437.0) No Failure*
Durability	80% Strength Retention	
Low Temperature	°F (°C)	-100 (-73)
High Temperature	°F (°C)	250 (121)
Fuel & Gasoline		Stable
Fire Rating		NFPA Class A[2]
Smoke Density		15
Flame Spread		25
Fuel Contribution		0

[1] Test Method: ASTM 1621 modified & ASTM D 4716 [2] Will not promote flame spread

Technical Data Typar Housewrap		
Dry tensile Strength	ASTM D-5034	80 lbs md 87 lbs xd
Trapezoidal Tear	ASTM D-1117	30 lbs md 33 lbs xd
Hydrostatic Pressure Resistance	AATCC 127-1995	865 cm
Moisture Vapor Transmission	ASTM E96-95	11.7 perms
Water resistance (Boat Test)	ASTM D-779	PASS
Water Ponding	CCMC Technical Guide	PASS

Filter Fabric Properties			
	Test Method	**USA (metric)**	**Waterway Plus**
Polymer			PA6 & PET
Weight	ASTM D 3776	Oz/yd^2 (g/m^2)	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^2 (l/sec/m^2)	185.0 (125)
Permittivity	ASTM D 4491	sec^{-1} (sec^{-1})	2.5 (2.5)
Fabric color			Gray

Installation Procedure:

Horizontally Attaching to Sheathing

1. For horizontal application, work from bottom to top (For vertical applications work from a corner). When using product attach to the surface with the flap up to assure proper shingling. Wrap the building completely, covering all door and window penetrations, overlapping at all wall ends. Install WaterWay Plus mat so that it lies flat against the wall surface using fasteners of appropriate length to hold material in place until claddings are installed.

2. At all window and door openings, cut an “X” across the face of the area starting at each corner, crossing to the opposite corner. Remove the core and fascia at the perimeter of the opening.

3. If finish cladding is Stucco, EIFS or Manufactured Stone Veneer, at the bottom of the wall install a foundation weep screed, a “J” weep hole termination bar, or flashing with weeps. WaterWay Plus may be placed over top of the back piece of the weep screed, termination bar, or flashing to create the proper shingle. (see detail drawings for additional options).

4. Contact Stuc-O-Flex International, Inc. for more specific information on installation and application opportunities. Cladding selection and scheduling may affect installation procedures.