

WaterWay 9120 Rainscreen Drainage Mat

Description

WaterWay 9120 is a nominal 4/5 inch thick drainage product consisting of a polymer core of fused entangled filaments bonded to a moisture resistant filter fabric on the outer surface. The product 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 *

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
- 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

| Technical Data | | | |
|---------------------|--|------|---------------|
| Physical Properties | USA (metric) | | WaterWay 9120 |
| Core Material | Nylon 6 | | |
| Total Thickness | inches (mm) | 0.8 | (20.3) |
| Total Weight | oz/yd ² (g/m ²) | 25.6 | (2,868) |
| Fabric Weight | oz/yd ² (g/m ²) | 4.3 | (146) |
| Matrix Weight | oz/yd ² (g/m ²) | 21.3 | (2,722) |

| Standard Packaging Information | | | |
|--------------------------------|-----------------------------------|-------|---------------|
| Product | USA (metric) | | WaterWay 9120 |
| Width (less flap) | inches (cm) | 39 | (99.1) |
| Width (with flap) | inches (cm) | 42 | (106.7) |
| Length | feet (meters) | 100.0 | (30.5) |
| Area | yd ² (m ²) | 36 | (30.1) |
| Roll diameter | inches (cm) | 35 | (88.9) |
| Gross roll weight | lbs (kg) | 62 | (28.1) |
| | | | |
| | | | |

| Filter Fabric Properties | | | | |
|--------------------------|-------------|---------------------|----------------------|---------------|
| | Test Method | USA | (Metric) | WaterWay 9120 |
| Polymer | | PA6 & PET | | |
| Weight | ASTM D 3776 | oz/yd ² | (g/m ²) | 3.54 (120) |
| Trapezoidal Tear | ASTM D 4533 | Lbs/ft | (kN/m) | 40 (178) |
| Mean Elongation @ Break | ASTM D 4632 | % | (%) | 40 (40) |
| Flow Rate | ASTM D 4491 | gpm/ft ² | l/sec/m ² | 185 (125) |
| Puncture Resistance | ASTM D 4833 | Lbs | N | 35 (155) |
| | | | | |

| Drain Flow Capacity | | |
|---------------------|-----------|------------|
| Load | Flow Rate | |
| psf | l/(m*s) | Gal/min*ft |
| 500 | 3.62 | 17.5 |
| 750 | 2.48 | 12 |
| 1000 | 1.66 | 8 |
| 2000 | 0.62 | 3 |

ASTM D 4716-04

EN ISO 12958

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 should be placed over top of the back leg of the weep screed to create the proper shingle effect and support moisture drainage. Additional casing may need to be surface mounted on top of the Waterway Mat to ensure a consistent thickness of mortar for some stucco or stone veneer applications.

Storage & Handling

WaterWay 9120 should be stored at temperature between 50 degrees to 90 degrees, out of direct sunlight.