SECTION 07 05 00

RAINSCREEN DRAINAGE MAT

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Stuc-O-Flex®; breathable elastomeric acrylic finishes, Waterway Rainscreen Drainage & Ventilation mats, Venetian style plasters, direct applied finish systems, rainscreen stucco, water management EIFS, one-coat stucco, Portland cement plaster, ICF coating systems.  
.  
This section is based on the products of Stuc-O-Flex®, which is located at:  
17639 N. E. 67th Ct.  
Redmond, WA 98052  
Toll Free Tel: 800-305-1045  
Tel: 425-885-5085  
Fax: 425-869-0107  
Email: [request info (techservice@stucoflex.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Stuc-O-Flex%26reg;&coid=43515&rep=&fax=425-869-0107&message=RE:%20Spec%20Question%20(07060sii):%20%20&mf=)  
Web: <http://www.stucoflex.com>   
 [ [Click Here](https://www.arcat.com/arcatcos/cos43/arc43515.html) ] for additional information.  
After twenty-five years of formulating, testing and manufacturing vertical walls products, Stuc-O-Flex International, Inc. understands the appearance of any project is the one element that immediately reflects the quality and integrity of the building, as well as the construction team involved. Our mission is to compliment those efforts with products of the highest quality and enhance cladding performance through Rainscreen configuration.  
Stuc-O-Flex International created America's first Breathable Elastomeric Acrylic Finish back in 1981. More recently we've advanced the science of vertical wall Rainscreen in drainable Stucco, Stone, EIFS and siding assemblies to new levels with technologies unprecedented in past years. Unparalleled expertise in Acrylic Polymer Chemistry and our WaterWay™ line of Rainscreen Drainage Mats assures extended service life and exceptional appearance on your completed projects. Whether your design requires a decorative textured coating, direct applications to substrate sheathing, EIFS, Stucco, ICF finish systems, Drainable Rainscreen assemblies or applications to enhance standard metal building construction, no company offers a broader selection of wall cladding and configuration options.  
Unequaled growth over the past two and a half decades and a listing in INC. Magazines' 500 Fastest Growing Companies reflects our philosophy and commitment to innovation, research and development, and uncompromising quality control.  
Our stability in ownership sharing resources with three sister companies, supported by six office locations throughout the U.S. and distribution in 22 countries confirm our stability and experience. With over 500 Million Feet in service world wide subjected to every conceivable climate, we look forward to supporting your next new construction, retrofit or remodel project.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete, add items below not required for project.

* + 1. Rainscreen drainage mat for use in sidewall construction. (WaterWay)
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 04 20 00 - Unit Masonry.
    2. Section 06 10 00 - Rough Carpentry.
    3. Section 06 20 00 - Finish Carpentry.
    4. Section 06 16 36 - Wood Panel Product Sheathing.
    5. Section 07 46 33 - Plastic Siding.
    6. Section 07 24 00 - Exterior Insulation and Finish Systems (EIFS).
    7. Section 07 44 56 - Mineral-Fiber-Reinforced Cementitious Panels.
    8. Section 07 65 26 - Self-Adhering Sheet Flashing.
    9. Section 09 26 00 - Veneer Plastering.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM D 779 - Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method.
       2. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.
    2. American Association of Textile Chemists and Colorists: AATCC 127, Hydrostatic Pressure Test.
    3. International Code Council (ICC): AC-38 Acceptance Criteria for Water Resistive Barriers
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Manufacturer's printed installation instructions, showing required preparation and installation procedures.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.
        4. Cleaning and maintenance instructions.
     3. Verification Samples: For each product specified, two 6 inches (150 mm) square samples.
     4. Closeout Submittals:
        1. Documentation of manufacturer's warranty.
  2. QUALITY ASSURANCE
     1. Installer: Minimum 2 years experience with similar drainage mat materials.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship and appearance are approved by Architect.
       3. Subject to approval by Architect, mock-up may be retained as part of finish work.
    2. Pre-Installation Meetings: Conduct pre-installation meetings to verify project requirements, substrate conditions, construction documents, details and manufacturer's warranty requirements.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Delivery: Deliver materials in manufacturer's original, unopened, undamaged rolls/pallets with identification labels intact.
     2. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer
  2. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
  3. WARRANTY
     1. Manufacturer's Warranty: Manufacturer's standard warranty document executed by authorized company official.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Stuc-O-Flex®, which is located at: 17639 N. E. 67th Ct.; Redmond, WA 98052; Toll Free Tel: 800-305-1045; Tel: 425-885-5085; Fax: 425-869-0107; Email: [request info (techservice@stucoflex.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Stuc-O-Flex%26reg;&coid=43515&rep=&fax=425-869-0107&message=RE:%20Spec%20Question%20(07060sii):%20%20&mf=); Web: <http://www.stucoflex.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. RAINSCREEN DRAINAGE MAT
     1. Raincreen Drainage Mat and Auxiliary Materials: As manufactured by Stuc-O-Flex International, Inc.
        1. Performance Testing:
           1. Boat Test (ASTM D 779): H2O vapor transfer in 12 minutes, 96 hours no water passed through membrane.
           2. Water Vapor Transmission Test (ASTM E 96): Perm rating exceeds 247.
           3. Hydrostatic Pressure Test (AATCC 127): 10 cm/18 hours.
           4. Acceptance Criteria for Water Resistive Barriers (AC-38): Passes section 4.2.2 Ponding Water Test.

\*\* NOTE TO SPECIFIER \*\* Delete products/systems not required.

* + - 1. Products/Systems: As indicated on Drawings.
      2. Products/Systems: Rainscreen Drainage mat with Code Compliant Weather Resistive Barrier.
      3. Products/Systems: Rainscreen Drainage mat with Moisture resistant filter fabric including the following.

\*\* NOTE TO SPECIFIER \*\* Delete WaterWay Rainscreen Profiles not required.

* + - 1. WaterWay 3mm is a nominal 1/8 inch / 3mm thick drainage product consisting of a polymer core of fused entangled filaments with a moisture resistant filter fabric bonded to the outer surface. WaterWay 3mm is designed for use with manufactured and natural stone, traditional and one coat stucco, EIFS, fiber-cement and wood based sidings, masonry, metal and other wall cladding materials. This rainscreen product provides an un-interrupted drainage path & ventilation for incidental moisture between exterior finish materials and wall sheathing.
         1. Core Material: Extruded Polymer Matrix.
         2. Fabric Material: Non-Woven Polypropylene Fiber.
         3. Width: Core 58 inches (140.0) Filter Fabric 62 inches (147.1cm).
         4. Length: 37 feet (12.3m).
         5. Thickness: 0.125 inch (3.0mm).
         6. Weight: 13 lb. / roll. 9.53 kg / roll.
         7. Footage per Roll: 180 sq. ft. / 16.7 sq. meters.
      2. WaterWay 7mm is a nominal 5/16 inch / 7mm thick drainage product consisting of a polymer core of fused entangled filaments with a moisture resistant filter fabric bonded to the outer surface. WaterWay 7mm is designed for use with manufactured and natural stone, traditional and one coat stucco, EIFS, fiber-cement and wood based sidings, masonry, metal and other wall cladding materials. This rainscreen product provides an un-interrupted drainage path & ventilation for incidental moisture between exterior finish materials and wall sheathing.
         1. Core Material: Extruded Polymer Matrix.
         2. Fabric Material: Non-Woven Polypropylene Fiber.
         3. Width: Core 58 inches (140.0) Filter Fabric 62 inches (147.1cm).
         4. Length: 37 feet (12.3m).
         5. Thickness: 0.30 inch (7.0mm).
         6. Weight: 16 lb. / roll. 7.2 kg / roll.
         7. Footage per Roll: 180 sq. ft. / 16.7 sq. meters.
      3. WaterWay 11mm is a revolutionary Vertical Wall Rainscreen consisting of a nominal 7/16 inch / 11mm thick extruded polymer matrix of tangled monofilaments. The monofilaments are heat laminated to a moisture resistant filter fabric with high perm rating on the outer side. WaterWay 11mm is designed for use with manufactured and natural stone, traditional and one coat stucco, EIFS, fiber-cement and wood based sidings, masonry, metal and other wall cladding materials. This rainscreen product provides an un-interrupted drainage path & ventilation space for incidental moisture between the sheathing and exterior wall claddings. \* Meets Canadian Code Requirements \*
         1. Core Material: Extruded Polymer Matrix.
         2. Fabric Material: Non-Woven Polypropylene Fiber.
         3. Width: Core 58 inches (140.0) Filter Fabric 62 inches (147.1cm).
         4. Length: 37 feet (12.3m).
         5. Thickness: 0.43 inch (11.0mm).
         6. Weight: 25 lb. / roll. 11.36 kg / roll.
         7. Footage per Roll: 180 sq. ft. / 16.7 sq. meters.
      4. WaterWay Rainscreen19mm is a 3/4 inch / 19 mm randomly oriented geometrically patterned drainage and ventilation mat. It is designed to eliminate moisture and moisture vapor in masonry applications and other siding applications. It is produced from an extruded polymer matrix of tangled monofilaments. The monofilaments are heat welded at the junctions to form a resilient structure that spaces siding away from the inner sheathing. The product is especially useful in masonry where a clear cavity is desired. Uses include manufactured and natural stone, traditional and one coat stucco, EIFS, fiber-cement and wood based sidings, masonry, metal and other wall cladding materials.
         1. Core Material: Extruded Polymer Matrix.
         2. Fabric Material: Non-Woven Geo-composite Fabric.
         3. Width: 48 inches (122 cm).
         4. Length: 50 feet (15.2m).
         5. Thickness: 0.75 inch (19.0mm).
         6. Weight: 32 lb/roll. 14.5 kg/roll.
         7. Footage per Roll: 180 sq. ft. / 16.7 sq. meters.
  1. ACCESSORIES

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below as applicable to requirements of project, or insert "As indicated on Drawings." Delete if not required.

* + 1. Housewrap/Air barrier:
       1. Material: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
       2. Material Standard: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
       3. Manufacturer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below as applicable to requirements of project, or insert "As indicated on Drawings." Delete if not required.

* + 1. Building paper:
       1. Material: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
       2. Material Standard: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
       3. Manufacturer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below as applicable to requirements of project, or insert "As indicated on Drawings." Delete if not required.

* + 1. Self Adhering Flashing:
       1. Material: Therm-Flash / Butyl with reinforced foil film
       2. Manufacturer: Stuc-O-Flex International, Inc.
       3. Size: Nominal 20 mils by 100 foot rolls.

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below as applicable to requirements of project, or insert "As indicated on Drawings." Delete width not required.

* + - 1. Width: As indicated on Drawings.
      2. Width: 4 inches (102 mm).
      3. Width: 6 inches (152 mm).
      4. Width: 9 inches (229 mm).
      5. Width: 12 inches (305 mm).

\*\* NOTE TO SPECIFIER \*\* Fill in blanks below as applicable to requirements of project, or insert "As indicated on Drawings." Delete if not required.

* + 1. Fasteners:

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Type: As indicated on Drawings.
      2. Type: Galvanized Roofing Nails.
      3. Type: Plastic Cap Nails.
      4. Type: Staples.
      5. Material: Corrosion protected steel.
      6. Material Standard: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
      7. Manufacturer: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
      8. Size: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. EXECUTION
   1. EXAMINATION AND PREPARATION
      1. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
      2. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
      3. Commencement of installation constitutes acceptance of conditions.
   2. INSTALLATION
      1. Install in accordance with manufacturer's written instructions and recommendations as applicable to specified application.
      2. Install sidewall sheathing material over framing.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Apply building paper and housewrap in compliance with manufacturer's instructions.
    2. Rainscreen Drainage Mat:
       1. Horizontal Application: Work from bottom to top.
       2. Vertical Application: Work from a corner.
       3. When using product with attached weather barrier install with flap up to assure proper shingling. Wrap the building completely, covering all door and window penetrations, stopping at all wall ends. Install Drainage mat so that it lies flat against the wall substrate.
       4. If wall is designed as a venting wall, ends should be terminated at a furring strip of matching thickness to prevent air movement to adjoining wall.
       5. At all window and door openings, cut tight to vertical part of window, door casings.
       6. Take care not to cut or damage waterproofing and weather barrier.
       7. If finish cladding is stucco, EIFS or manufactured stone veneer, at the bottom of the mat, place a foundation weep screed, a "J" weep hole termination bar or flashing with weeps. Weather barrier and mat should be placed over top of the back piece of the weep screed, termination bar or flashing to create the proper shingle and water management.
       8. For other finish cladding, attach a 6 inch (152 mm) wide piece of insect screen material continuously along the bottom edge of the Drainage mat, 3 inch (76 mm) above bottom edge of the Drainage mat. Fold over outward facing surface of installed Drainage mat. Attach with a large head nail to hold screen in place until cladding is applied.
       9. For top vented walls follow a similar procedure at the top of the Drainage mat.
       10. If wall is designed as a venting wall, at wall terminations, place a wood termination strip along the outside edge of each wall to create a wind dam for negative wind load.
       11. Refer to manufacturers "Installation Guide for Flashing Windows/Doors" for additional detailing recommendations and instruction.
       12. Maximum exposure of WaterWay Rainscreen shall not exceed 30 days, prior to cladding installation.
    3. Install specified siding or cladding directly over WaterWay Rainscreen Mat in compliance with manufacturer's installation instructions within 30 days from application.
  1. CLEANING AND PROTECTION
     1. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION