



**DIVISION 7
THERMAL & MOISTURE PROTECTION
SECTION 07 46 00: SIDING
SIDEWALL RAINSCREEN**

SLICKER® CLASSIC OR SLICKER MAX SIDEWALL RAINSCREEN

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Rainscreen for Use in Sidewall Construction.

Specifier Note: Revise paragraph below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the paragraph below. Add section numbers and titles as necessary and in the absence of related sections, delete paragraph below.

B. Related Sections

1. Division 4 Section: Masonry Units (04 20 00), Stone (04 40 00), Manufactured Masonry (04 70 00).
2. Division 5 Section: Metal Framing (05 40 00).
3. Division 6 Section: Rough Carpentry (06 10 00), Finish Carpentry (06 20 00).
4. Division 7 Section: Roofing and Siding Panels (07 40 00), Exterior Insulation and Finish Systems (07 24 00), Fiber-Reinforced Cementitious Panels (07 46 46), Weather Barriers (07 25 00).
5. Division 9 Section: Portland Cement Stucco Plastering (09 24 23), Veneer Plastering (09 26 00)

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.02 REFERENCES

Specifier Note: List standards referenced in this section with all referenced designations and titles. Please note, this article does not require compliance with standards; however, the testing standards used are listed below.

- A. ASTM C 167-98: Standard Test Method for Thickness and Density of Blanket or Batt Thermal Insulations
- B. ASTM C 165-00: Standard Test Method for Measuring Compressive Properties of Thermal Insulations
- C. ASTM D 4533: Standard Test Method for Trapezoidal Tear Strength of Geotextiles
- D. ASTM D 4632: Standard Test Method for Grab-Breaking Load and Elongation of Textiles
- E. ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials
- F. Fed. Std. 191A Method 5874: Cold-Crack Resistance
- G. ASTM D 4716: Standard Test Method for Determining the (in-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head
- H. ASTM E 2273: Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit manufacturer's product data and installation instructions.
- C. Samples: Submit selection and verification samples.

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- D. Closeout Submittals: Submit the following:
1. Warranty documents specified herein.

Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

Specifier Note: Retain paragraph below if mock-up is required.

- B. Mock-Ups: [Specify requirements for mock-up].
1. Subject to acceptance by owner, mock-up may be retained as part of finish work.
 2. If mock-up is not retained, remove and properly dispose of mock-up.

Specifier Note: Retain paragraph below if pre-installation meeting is required.

- C. Pre-installation Meetings: [Specify requirements for meeting].

Specifier Note: Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.

1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirement Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.

1.06 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

Specifier Note: Coordinate subparagraph below with manufacturer's warranty requirements.

1. Warranty Period: 20 years, beginning with date of substantial completion.

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PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes and performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 RAINSCREEN

Specifier Note: Retain or delete paragraph(s) below per project requirements and specifier's practice.

- A. Manufacturer: Benjamin Obdyke Incorporated.
 - 1. Contact: 400 Babylon Road, Suite A, Horsham, PA 19044; Telephone: (800) 523-5261; Fax: (215) 672-3731; E-mail: info@benjaminobdyke.com; website: www.benjaminobdyke.com.)
- B. Proprietary Products/Systems: Rainscreen, including the following:
 - 1. Slicker[®] Classic
 - a. Description: Vertically-channeled three-dimensional matrix in roll form.
 - b. Material: Nylon (up to 10% post-industrial recycled content)
 - c. Width: 39.37 inches (1 m).
 - d. Length: 46 1/2 feet (14.2 m).
 - e. Thickness: 0.25 inches (6.4 mm).
 - f. Weight: 7.2 lbs/roll; 7.0 oz/yd².
 - g. Matrix Design: 8 channels per 4 inches (102 mm). Two channels per inch (25.4 mm).
 - h. Matrix Design: 8 channels per 4 inches (102 mm); 2 channels per inch (25.4 mm).
 - b. Slicker[®] MAX
 - a. Description: Vertically-channeled three-dimensional matrix bonded to a fabric in roll form.
 - b. Material: Polypropylene (up to 40% post-industrial recycled content)
 - c. Width: 39.37 inches (1 m)
 - d. Length: 61 1/2 feet
 - e. Thickness: 0.25 inches (6.4 mm)
 - f. Weight: 11.1 lbs/roll; 8 oz/yd².
 - g. Matrix Design: 8 channels per 4 inches (102 mm); 2 channels per inch (25.4 mm).

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

Specifier Note: Specify subordinate or secondary items that aid and assist primary products specified above or are necessary for preparation or installation of those items.

2.03 ACCESSORIES

- A. Manufacturer: Benjamin Obdyke Incorporated.
 - 2. Contact: 400 Babylon Road, Suite A, Horsham, PA 19044; Telephone: (800) 523-5261; Fax: (215) 672-3731; E-mail: info@benjaminobdyke.com; website: www.benjaminobdyke.com.)

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B. Proprietary Products/Systems: Weather Resistive Barrier, including the following:

1. FlatWrap® UV Housewrap General Characteristics
 - a. Description: tri-laminate substrate (2 layers of nonwoven with water-holdout film layer in between).
 - b. Material: Polypropylene
 - c. Width: 5 ft (1.52 m).
 - d. Length: 100 ft (30.48 m).
 - e. Thickness: 0.018 inches (0.46 mm).
 - f. Weight: 14.5 lbs/roll
2. FlatWrap® UV Housewrap Performance Characteristics
 - a. Air Penetration: 0.0062 L/(sm²) at 75 psi, when tested in accordance with ASTM E2178.
 - b. Water Vapor Transmission: 36 perms, when tested in accordance with ASTM E 96, Method A.
 - c. Water Penetration Resistance: 55 cm for 5 hours when tested in accordance with AATCC Test Method 127.
 - d. Tensile Strength: 58.0 MD, 50.6 CD, when tested in accordance with ASTM D5034.
 - e. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84. Flame Spread: 0, Smoke Developed: 75.
3. Taping of housewrap seams is not required. If taping seams, HydroFlash® 2.5 in must be used.
 - a. HydroFlash® 2.5 in Characteristics:
 - i. Description: specially-formulated self-adhered flashing for FlatWrap® UV Housewrap.
 - ii. Material: polypropylene film with aggressive blo-copolymer adhesive.
 - iii. Width: 2.5 inches
 - iv. Length: 75 feet (26.8 m)
 - v. Thickness: 14.5 mil (368.3 microns)
 - b. Material Standard: [3 inch or wider seam tape]
 - c. Manufacturer: [Acceptable to manufacturer of FlatWrap® UV Housewrap] [Benjamin Obdyke].
4. Fasteners:
5. Flashing: [HydroFlash™ Self-Adhered Flashing]
 - a. HydroFlash™ Self-Adhered Flashing Characteristics:
 - i. Description: specially-formulated self-adhered flashing for FlatWrap® UV Housewrap.
 - ii. Material: polypropylene film with synthetic adhesive.
 - iii. Width:[4; 6; 9] inches (101.6; 152.4; 228.6 mm)
 - iv. Length: 75 feet (26.8 m)
 - v. Thickness: 14.5 mil (368.3 microns)
 - b. Material Standard: [butyl-based adhesive or bloc-copolymer must be approved by Benjamin Obdyke for use with FlatWrap® UV Housewrap per installation instructions.]
 - c. Manufacturer: [Acceptable to manufacturer of HydroGap Drainable Housewrap] [Benjamin Obdyke].

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6. Sill Flashing: Benjamin Obdyke HydroCorner™ rigid sill corner flashing.
 7. Fasteners:
 - a. [Acceptable to manufacturer of FlatWrap® UV Housewrap] [Benjamin Obdyke].
 8. Adhesives/Sealants:
 - a. [Acceptable to manufacturer of FlatWrap® UV Housewrap] [Benjamin Obdyke].

Specifier Note: Specify only blunt-tipped, ring shank stainless steel nails for any wood cladding product.

PART 3 EXECUTION

Specifier Note: Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Comply with the instructions and recommendations of the rainscreen manufacturer.

Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

3.02 EXAMINATION

- A. Site Verification of Conditions:
 1. Verify that site conditions are acceptable for installation of rainscreen.
 2. Do not proceed with installation of rainscreen until unacceptable conditions are corrected.

Specifier Note: Coordinate article below with manufacturer's recommended installation requirements.

3.03 INSTALLATION

- A. Install sidewall sheathing material [Gypsum sheathing] [Oriented strand board] [Plywood] [Foam board] [Insert sheathing description.] over framing.
- B. Apply [Housewrap] [Building paper] in compliance with manufacturer's instructions.
- C. Apply 5/4 inch (32 mm) trim around windows and doors or shim out other trim 1/4 inch (6.4 mm) to allow for thickness of rainscreen.
- D. Install rainscreen by butting against window and door trim.

Specifier Note: Optionally, rainscreen may be installed behind window trim boards provided the head and sill flashings are properly installed to provide a drainage path for moisture management.

1. Wherever siding or cladding will be applied, roll out rainscreen with channels running vertically. Cover entire wall surface wherever siding materials will be installed.
2. Do not stretch rainscreen.
3. Install rainscreen so that it lies flat against the wall.
4. Butt edges of new rolls or new courses together. Do not overlap layers of rainscreen.
5. Nail or staple rainscreen every 3 square feet.

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- E. Install siding or cladding system over wall surface in compliance with manufacturer's installation instructions
 - 1. Install siding even with trim.
- F. To prevent insect infiltration along bottom edge of siding, attach a 6 inch (152 mm) wide piece of screen material (1/8 inch [3.2 mm] maximum hole size) continuously along the wall, 3 inches (76 mm) above bottom edge of rainscreen. Fold up onto outer surface of installed rainscreen and fasten with a large head nail to hold in place prior to applying siding or cladding.

Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by the owner. Coordinate article below with Division 1 Execution Requirements Section.

3.04 PROTECTION

- A. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION

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