

INVISIWRAP™ UV BLACK HOUSEWRAP**PART 1 GENERAL****1.1 SECTION INCLUDES**

Specifier Note: "Weather barrier assembly" has been used throughout the document. A weather barrier is a weather-resistant membrane for vertical building envelope protection that will maintain air/moisture resistance while maintaining moisture-vapor permeability. The assembly consists of the following six components.

- A. Weather barrier membrane (Benjamin Obdyke InvisiWrap™ UV Housewrap)
- B. Seam Tape (OPTIONAL) (Benjamin Obdyke HydroFlash® UV+ 2.3" Sealing Flashing)
- C. Flashing (Benjamin Obdyke HydroFlash® UV+ Self-Adhered Flashing [4", 6"])
- D. Fasteners
- E. Adhesive/Sealant (per "Approved Compatible Products" list for InvisiWrap Housewrap)
- F. Furring Strips (OPTIONAL) (Benjamin Obdyke Batten UV)

1.2 REFERENCES

- A. ASTM International
 - ASTM D5034; Test Method for Dry Tensile Strength
 - ASTM D779; Test Method for Water Vapor Resistance
 - ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
 - ASTM E96; Test Method for Water Vapor Transmission of Materials
 - ASTM E2178; Test Method for Air Permeance of Building Materials
- B. ICC – International Code Council
 - AC38; Acceptance Criteria for Water-Resistive Barriers

1.3 SUBMITTALS

- A. Refer to Section [01 33 00 Submittal Procedures] [insert section number and title].
- B. Product Data: Submit manufacturer current technical literature for each component.
- C. Samples: Weather Barrier membrane, minimum 6 inches by 9 inches.
- D. Quality Assurance Submittals

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.

1.4 QUALITY ASSURANCE

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

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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.

1.5 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.

1.6 WARRANTY

- E. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
- F. 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: 25 years, beginning with date of substantial completion.

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.

2.1 WEATHER RESISTIVE BARRIER

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: Weather Resistive Barrier, including the following:
 - 1. InvisiWrap™ UV Housewrap General Characteristics
 - a. Description: bi-laminate substrate (2 layers of nonwoven with a proprietary UV coating).
 - b. Appearance: un-printed black substrate
 - c. Material: Polyester
 - d. Width: 4.92 ft (1.5 m).
 - e. Length: 100 ft (30.48 m).
 - f. Weight: 19 lbs/roll
 - 2. InvisiWrap™ UV Housewrap Performance Characteristics
 - a. Color: Black (exterior) with allowable UV exposure for 365 days
 - b. Air Penetration: 0.0008 L/(sm²) at 75 Pa, when tested in accordance with ASTM E2178.
 - c. Water Vapor Transmission: 14 perms, when tested in accordance with ASTM E 96, Method A.
 - d. Water Vapor Resistance: PASS. No transudation at 1/6th of an hour, when tested in accordance with ASTM D779.
 - e. Tensile Strength: 128.9 MD, 74.9 CD, when tested in accordance with ASTM D5034.
 - f. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84. Flame Spread: 15, Smoke Developed: 200.
 - g. Cold Bend Test: PASS. No cracks when bent around 1/16" mandrel at 32°F, when tested in accordance with AC38.

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.

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2.2 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.

2.3 ACCESSORIES

- A. Provide the following accessories:

1. Taping of housewrap seams is not required. If taping seams, HydroFlash® UV+ 2.3" Sealing Tape or other compatible product as specified by the manufacturer must be used.
 - a. HydroFlash® UV+ Characteristics:
 - i. Description: specially-formulated black self-adhered flashing for InvisiWrap™ UV Housewrap.
 - ii. Material: black polypropylene nonwoven with acrylic adhesive.
 - iii. Width: 2.3 inches (60mm)
 - iv. Length: 82 feet (25 m)
 - v. Thickness: 16 mil (406.4 microns)
 - b. Material Standard: [2.3 inch or wider seam tape]
 - c. Manufacturer: [Acceptable to manufacturer of InvisiWrap™ UV Housewrap] [Benjamin Obdyke].
2. Flashing: [HydroFlash® UV+ Self-Adhered Flashing]
 - a. HydroFlash® UV+ Self-Adhered Flashing Characteristics:
 - i. Description: specially-formulated black self-adhered flashing for InvisiWrap™ UV Housewrap.
 - ii. Material: polypropylene nonwoven with acrylic adhesive.
 - iii. Width:[4; 6] inches (100mm; 150mm)
 - iv. Length: 82 feet (25 m)
 - v. Thickness: 16 mil (406.4 microns)
 - b. Material Standard: [Acrylic adhesive must be approved by Benjamin Obdyke for use with InvisiWrap™ UV Housewrap per installation instructions.]
 - c. Manufacturer: [Acceptable to manufacturer of InvisiWrap™ UV Housewrap] [Benjamin Obdyke].
3. Sill Flashing: Benjamin Obdyke HydroCorner™ rigid sill corner flashing.
4. Fasteners:
 - a. [Acceptable to manufacturer of InvisiWrap™ UV Housewrap] [Benjamin Obdyke].
5. Adhesives/Sealants:
 - a. [Acceptable to manufacturer of InvisiWrap™ UV Housewrap] [Benjamin Obdyke].

PART 3 EXECUTION

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

3.1 MANUFACTURER'S INSTRUCTIONS

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

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

3.2 EXAMINATION

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

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

3.3 INSTALLATION

- A. Basic Installation
1. Unroll InvisiWrap™ UV with black/glossy side facing out.
 2. Fasten housewrap to sheathing or studs with nails, staples, or cap fasteners. Fasteners should provide a minimum of ½ inch penetration into nail base and be spaced approximately 12-18 inches apart. The housewrap should be installed shingle lap fashion. Overlap all horizontal seams at least 4 inches, vertical seams at least 6 inches, and corners by 12 inches.
 3. Method of Installation: Housewrap may be installed by wrapping entire building including window and door openings. At each window opening cut an "I" shape into the housewrap. Fold side flaps into rough opening. Fold up top trapezoid shape and proceed with flashing opening.
 4. Surfaces should be clean and dry. Install HydroFlash® UV+ at sill, corner patches, jamb flashing. Use roller or hand applicator to apply HydroFlash® UV+. Be sure that housewrap and flashing provide positive drainage. Install window per manufacturer's instructions, and install drip cap and header flashing.
 5. Taping of seams is NOT REQUIRED. If you must tape seams, HydroFlash® UV+ must be used.
 6. Coverage within 365 days is recommended. Do not allow the housewrap to be exposed to sunlight for more than 365 days prior to application of cladding.

*Alternatively, the housewrap can be applied after the windows are installed and flashed. Slip housewrap under loose sill flashing for proper shingling.

- B. Flanged Window Installation
1. Install Sill Flashing System*.
 2. Apply caulk/sealant at jambs and head.
 3. Install Flanged Window**.
 4. Install Jamb Flashing.
 5. Install Header Flashing.
 6. Fold top flap back down on top of flashed header window flange and tape diagonal cuts.

*Flash windows and doors according to building code requirements.

**Install windows, doors and flashing as per manufacturers' installation instructions.

- C. Open Joint Cladding Application
1. InvisiWrap™ UV is for use with openings up to one (2) inches.

- D. Special Considerations

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1. Flash other wall penetrations (such as outlets, exhaust vents, etc.) with proper shingling technique to maintain drainage to the exterior.
2. Tape all tears and holes that may have been inadvertently introduced during the construction process.
3. When installing InvisiWrap™ UV as the *primary air barrier*, consider the following:
 - i. Tape all seams with HydroFlash® UV+ 2.3" Sealing Tape
 - ii. Seal the bottom of the first course to the foundation
 - iii. Seal the top of the last course to the sheathing or top plate
 - iv. Tape/seal all penetrations and tears
 - v. Use cap fasteners
4. To achieve 25 YEAR PRODUCT AND LABOR LIMITED WARRANTY:
 - i. Option 1: HydroFlash® UV+ and cap-fasteners must be used.
 - ii. HydroCorner is optional.
 - iii. Batten UV is optional.
- 5.

3.4 PROTECTION

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

END OF SECTION