**HYDROGAP® SA SELF-ADHERED DRAINABLE 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 three components.

1. Weather barrier membrane (Benjamin Obdyke HydroGap® SA Self-Adhered Drainable Housewrap)
2. Flashing (Benjamin Obdyke HydroFlash® UV+ Self-Adhered Flashing, HydroFlash® LA liquid applied flashing, or HydroFlash® GP Self-Adhered Flashing)
3. Adhesive/Sealant
	1. REFERENCES
4. ASTM International
5. ASTM D5034; Test Method for Dry Tensile Strength
6. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
7. ASTM E96; Test Method for Water Vapor Transmission of Materials
8. ASTM E2178; Test Method for Air Permeance of Building Materials
9. ASTM D1970; Test Method for Water Penetration around nails
10. ASTM E2273; Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies
11. AATCC – American Association of Textile Chemists and Colorists
	1. Test Method 127 Water Resistance: Hydrostatic Pressure Test

1.3 SUBMITTALS

1. Refer to Section [01 33 00 Submittal Procedures] [insert section number and title].
2. Product Data: Submit manufacturer current technical literature for each component.
3. Samples: Weather Barrier membrane, minimum 6 inches by 9 inches.
4. 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

1. 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.*

1. 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.*

1. 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

1. General: Comply with Division 1 Product Requirement Section.
2. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.
3. 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. WARRANTY
1. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.
2. 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 and Enhanced Warranty options: see website
	1. [www.benjaminobdyke.com/resource-category/warranty/](http://www.benjaminobdyke.com/resource-category/warranty/)

**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.*

1. Manufacturer: Benjamin Obdyke Incorporated.
2. Contact: 400 Babylon Road, Suite A, Horsham, PA 19044; Telephone: (800) 523-5261; E-mail: techsupport@obdyke.com; website: [www.benjaminobdyke.com](http://www.benjaminobdyke.com)
3. Proprietary Products/Systems: Weather Resistive Barrier, including the following:
4. HydroGap® SA Self-Adhered Drainable Housewrap
	1. General Characteristics
		1. Description: tri-laminate substrate (2 layers of nonwoven with water-holdout film layer in between) with 1mm thermopolyolefin (TPO) spacers adhered to it to allow for a drainage gap, with proprietary continuous acrylic adhesive on back side with release liner.
		2. Appearance: tan substrate with 1mm spacers
		3. Drainage space: 1mm
		4. Spacer Design: 180 spacers per sq. ft.
		5. Material: Polypropylene
		6. Width: 57in (1.45 m).
		7. Length: 80 ft (24.38 m).
		8. Weight: 30 lbs/roll
	2. Performance Characteristics
		1. UV Resistance: UV exposure for 120 days
		2. Air Penetration: 0.011 L/(s.m2) at 75 psi, when tested in accordance with ASTM E2178.
		3. Water Vapor Transmission: 12 perms, when tested in accordance with ASTM E 96
		4. Water Penetration Resistance: Pass; 55 cm for 5 hours when tested in accordance with AATCC Test Method 127.
		5. Drainage efficiency: 96%, when tested in accordance with ASTM E2273.
		6. Tensile Strength: 68.3 lbf MD, 60.1 lbf CD, when tested in accordance with ASTM D5034.
		7. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84. Flame Spread: 5, Smoke Developed: 75.
		8. Nail Sealing: Pass, when tested in accordance with ASTM D1970.

*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.*

2.2 PRODUCT SUBSTITUTIONS

1. 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

1. Provide the following accessories:
2. Flashing Option 1: HydroFlash® UV+ Self-Adhered Flashing
	1. HydroFlash® UV+ Self-Adhered Flashing Characteristics:
		1. Description: specially formulated self-adhered flashing for Benjamin Obdyke water resistive barriers. Continuous, breathable acrylic adhesive
		2. Vapor permeable: 4 perms
		3. UV Rating: 365 days before cladding application.
		4. Material: black, unprinted polypropylene nonwoven film with acrylic adhesive.
		5. Width:[ 4; 6; 9] inches (101.6; 152.4; 228.6 mm)
		6. Length: 82 feet (25 m)
		7. Thickness: 16 mil
3. Flashing Option 2: [HydroFlash® LA Liquid Applied Flashing]
	1. HydroFlash® Liquid Applied Flashing Characteristics:
		1. Description: specially-formulated liquid applied flashing for Benjamin Obdyke water resistive barriers.
		2. Material: STPU compound
		3. Cured Thickness: 20-40 mils
		4. Vapor permeable: 4 perms
		5. UV Rating: 180 days before cladding application
4. Flashing Option 3: [HydroFlash® GP Self-Adhered Flashing]
	1. HydroFlash® GP Self-Adhered Flashing Characteristics:
		1. Description: specially formulated self-adhered flashing for Benjamin Obdyke water resistive barriers. Continuous acrylic adhesive.
		2. Vapor impermeable: <0.1 perms
		3. UV Rating: 180 days before cladding application.
		4. Material: polyethylene film with acrylic adhesive.
		5. Width:[4; 6; 9] inches (101.6; 152.4; 228.6 mm)
		6. Length: 82 feet (25 m)
		7. Thickness: 14 mil
5. Sill Flashing:
	1. Benjamin Obdyke HydroCorner® rigid sill corner flashing and HydroFlash® Self Adhered Flashing [6”, 9”] or
		1. [Acceptable to manufacturer of HydroGap® SA Self-Adhered Drainable Housewrap] [Benjamin Obdyke].
6. Fasteners: min 3/8” cap staples, cap nails, or T50 staples may be used if needed
	1. [Acceptable to manufacturer of HydroGap® SA Self-Adhered Drainable Housewrap] [Benjamin Obdyke].
7. Adhesives/Sealants: per “Approved Compatible Products” list for HydroGap® SA Self-Adhered Drainable Housewrap
	1. [Acceptable to manufacturer of HydroGap® SA Self-Adhered Drainable Housewrap] [Benjamin Obdyke].

**PART 3 EXECUTION**

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

3.1 MANUFACTURER’S INSTRUCTIONS

1. 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

1. 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

1. Basic Installation: see website
	1. [www.benjaminobdyke.com/resource-category/installation-instructions/](http://www.benjaminobdyke.com/resource-category/installation-instructions/)
2. Special Considerations for System Warranty Requirements: reference Part 1.6.B: see website
	1. [www.benjaminobdyke.com/resource-category/warranty/](http://www.benjaminobdyke.com/resource-category/warranty/)

3.4 PROTECTION

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

**END OF SECTION**