**VAPORWISE™ VAPOR-VARIABLE INTERIOR MEMBRANE**

**PART 1 GENERAL**

1.1 SECTION INCLUDES

1. Vapor-variable interior membrane (Benjamin Obdyke VaporWise™ Vapor-variable interior membrane)
2. Seam Tape (Benjamin Obdyke HydroTape® DS Sealing Tape, HydroFlash® UV+ Self-Adhered Flashing, or HydroFlash® GP Self-Adhered Flashing) [optional]
3. Fasteners
4. Adhesive/Sealant
	1. REFERENCES
5. ASTM International
	1. ASTM D5034; Test Method for Dry Tensile Strength
	2. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
	3. ASTM E96; Test Method for Water Vapor Transmission of Materials
	4. ASTM E2178; Test Method for Air Permeance of Building Materials
6. EN – European Standard
	1. EN 1849-1; Test Method for overall thickness

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 VAPOR-VARIABLE INTERIOR MEMBRANE

*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: Vapor-variable interior membrane, including the following:
4. VaporWise™ Vapor-variable Interior Membrane
	1. General Characteristics
		1. Description: tri-laminate substrate (moisture-variable membrane film, non-woven polypropylene fleece, & reinforcing mesh).
		2. Appearance: translucent white substrate with printed branding
		3. Material: Polypropylene fleece, special membrane, & mesh fabric
		4. Width: 59 in. (1.5 m)
		5. Length: 164 ft (50 m).
		6. Weight: 22 lbs/roll
	2. Performance Characteristics
		1. Air Penetration: 0.007 L/(sm2) at 75 Pa, when tested in accordance with ASTM E2178.
		2. Water Vapor Transmission: variable 0.14 to 14 perms, when tested in accordance with ASTM E 96.
		3. Thickness: Pass; 0.3 mm when tested in accordance with EN Test Method 1849-1.
		4. Tensile Strength: 45 lbf MD, 47 lbf CD, when tested in accordance with ASTM D5034.
		5. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E84. Flame Spread: 0, Smoke Developed: 45.

*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.*

*Specifier Note: Edit Article below to suit project requirements for either a) vapor control; or b) vapor & air control*

2.3 ACCESSORIES

1. Provide the following accessories:
2. {Taping of vapor-variable interior membrane seams is not required [for vapor control layer].} ***or*** {Taping of vapor-variable interior membrane seams and terminations is required [for vapor & air control layer].} If taping seams [& terminations], HydroTape® DS Sealing Tape, HydroFlash® GP Self-Adhered Flashing, HydroFlash® UV+ Self-Adhered Flashing or other compatible product as specified by the manufacturer must be used.
	1. HydroTape® DS Sealing Tape Characteristics:
		1. Description: specially formulated double sided sealing tape for Benjamin Obdyke WRBs.
		2. Material: polypropylene film with acrylic adhesive.
		3. Width: 0.75 inches
		4. Length: 82 feet (25 m)
	2. 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
	3. 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
	4. Manufacturer: [Acceptable to manufacturer of BenWrap™ Housewrap] [Benjamin Obdyke].
3. Fasteners: min 3/8” wide by 5/16” long staples may be used
	1. [Acceptable to manufacturer of VaporWise™ Vapor-variable interior membrane] [Benjamin Obdyke].
4. Adhesives/Sealants: per “Approved Compatible Products” list for VaporWise™ Vapor-variable interior membrane
	1. [Acceptable to manufacturer of VaporWise™ Vapor-variable interior membrane] [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 vapor-variable interior membrane.
	2. Do not proceed with installation of vapor-variable interior membrane 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/)

3.4 PROTECTION

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

**END OF SECTION**

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