**VAPORDRYTM SA - SELF-ADHERED VAPOR PERMEABLE ROOFING UNDERLAYMENT**

**PART 1 GENERAL**

1.01 SUMMARY

1. Section Includes: Underlayment for Wood Shingle & Shake Construction (also Metal Roofing)

*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.*

1. Related Sections
	1. Division 6 Section: Rough Carpentry (06 10 00), Finish Carpentry (06 20 00).
	2. Division 7 Section: Asphalt Shingles (07 31 10), Metal Shingles (07 31 30) Slate Shingles (07 31 50), Wood Shingles & Shakes (07 31 70) Roofing and Siding Panels (07 40 00), Metal Roof Panels (07 41 10)

*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.*

1. ASTM D 5034: Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
2. ASTM D 4533: Standard Test Method for Tear Strength
3. ASTM E 96: Standard Test Method for Water Vapor Transmission
4. ASTM D 1970: - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice-Dam Protection
5. ICC AC48: Self-adhered Roof Underlayments for Use as Ice Barriers

1.03 SUBMITTALS

1. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
2. Product Data: Submit manufacturer’s product data and installation instructions.
3. Samples: Submit selection and verification samples.
4. 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

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.*

1.05 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.*

1.06 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: Warranty Period: 30 years, beginning with date of substantial completion and adherence to manufacturer’s installation instructions.
2. Enhanced warranty option: 35 years, covering product and labor. VaporDry SA 35 year system warranty requires: VaporDry SA, HydroFlash, Cedar Breather and Rapid Ridge 7 ridge vent.

**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 VAPOR PERMEABLE AIR BARRIER MATERIALS

*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; Fax: (215) 672-3731; E-mail: techsupport@obdyke.com; website: [www.benjaminobdyke.com](http://www.benjaminobdyke.com).)
3. Proprietary Products/Systems: Vapor Permeable Air Barrier materials, including the following:
4. VaporDry® SA:
	* 1. Description: Self-Adhered, tri-laminate, vapor permeable roofing underlayment.
		2. Color: Gray
		3. Material: Polypropylene
		4. Width: 57 inches (1.45 m).
		5. Length: 80 feet (24.4 m).
		6. Surface Area: 380 ft2 (35.3 m2)
		7. Thickness: 0.7 mm
		8. Weight: 28 lbs/roll
		9. UV Exposure: 120 days

*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

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.*

2.03 ACCESSORIES

1. Provide the following accessories:
2. Cedar Breather roof ventilation mat (for use with wood or metal roofing)
	1. Description: Rolled ventilation mat to provide drainage and ventilation beneath wood and metal roofing
	2. Material: Nylon
	3. Roll Size: 39” W X 61.5ft. L
	4. Thickness: .25”
3. Flashing Option: 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 (406.4 microns)
4. Rapid Ridge 7
	1. Description: rolled, shingle-over ridge ventilation product
		1. Material: Nylon matrix with non-woven polyester fabric
		2. Roll size: 7” X 20ft. rolls
		3. Thickness: .625”
5. Fasteners:

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

* 1. Type: [Nails] [Blunt-tipped, ring shank stainless steel nails] [Staples].
	2. Material: Corrosion protected steel.
	3. Material Standard: [Specify material standard.].
	4. Manufacturer: [Acceptable to manufacturer of underlayment] [Specify manufacturer.].
	5. Size: Suitable for project application.

**PART 3 EXECUTION**

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

3.01 MANUFACTURER’S INSTRUCTIONS

1. Comply with the instructions and recommendations of the underlayment manufacturer.

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

3.02 EXAMINATION

1. Site Verification of Conditions:
	1. Verify that site conditions are acceptable for installation of the underlayment.
	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

1. Installation
	1. Roof sheathing should be dry. Prepare roof sheathing by sweeping or blowing off saw dust and make sure all sheathing nails are flush.
	2. Install a conventional vapor closed self-adhered roofing underlayment on all eaves and valleys such as “Ice and Water Shield”.
	3. Chalk control line on sheathing to help prevent wrinkles for horizontal installation on remaining roof deck.
	4. Remove release liner in upper corner and pull down at a 45-degree angle.
	5. Unroll about 6 feet to verify product is following caulk line. Remove release liner slowly at a 45 ° angle and begin to lightly smooth product starting from the center and move air pockets to the edges.
	6. After release liner is removed, smooth out any wrinkles or bubbles with dense floor broom, roller, or floor squeegee. Pressure must be applied to entire surface to activate adhesive.
	7. Install next layer with minimum 4” overlap on the horizontal seams and 6” on any vertical seams, 12” overlap on any corners.
	8. The adhesive is repositionable on sheathing but prevent adhesive from touching itself.
	9. Reduce excess foot traffic on product as the gray surface can be damaged.

*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

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

**END OF SECTION**