

SPECIFICATION RESOURCE FOR DIVISION 7 – SLOPESHIELD® Breathable Underlayment

	<ul style="list-style-type: none"> B. Source Limitations: Obtain all breathable underlayment through one source from a single manufacturer. C. Preinstallation Conference: Conduct conference at project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review requirements for underlayment, including surface preparation specified under other sections, substrate condition and pretreatment, temporary weather protection, forecasted weather conditions, special details and sheet flashings, installation procedures, testing and inspection procedures, and protection and repairs. <p>1.5 DELIVERY, STORAGE, AND HANDLING</p> <ul style="list-style-type: none"> A. Deliver materials to Project site in original containers with seals unbroken, wrapped in a polythene sleeve, labeled with manufacturer's name, and product brand name. B. Store rolls under cover, on a clean, level surface, either flat or upright.
SPECIFIERS NOTES	PART 2 - PRODUCTS
	<p>2.1 MANUFACTURERS</p> <ul style="list-style-type: none"> A. Products: Subject to compliance with requirements, provide one of the following products: <ul style="list-style-type: none"> 1. Spun Bonded Polypropylene: Underlayment shall be furnished in standard rolls of 59" high (1-1/2 meters) and 164 feet (50 meters) long. <ul style="list-style-type: none"> a. SlopeShield, distributed by VaproShield LLC., phone (866) 731-7663. www.VaproShield.com b. Others as may be approved by Addendum. Note: The Architect is not aware of any other material that has the water resistance and high perm rating of the specified product. <p>2.2 UNDERLAYMENT PHYSICAL PROPERTIES</p> <ul style="list-style-type: none"> A. Color: Red on exterior, White on interior of membrane B. Thickness and Weight: 0.020 inches thick and 5.01 oz./ sq. yd. C. Tensile Strength: ASTM D1682, Pass D. Water Vapor Transmission: ASTM E 96, Pass E. Pliability: AC207, Pass F. Water Resistance (Ponding): AC 48, Pass G. Cycling & Elongation: AC 48, Pass H. Accelerated Aging: AC 48, AC 207, Pass I. UV Exposure: AC48, AC207, Pass J. Rupture Resistance (3/8" Nail Head and 7/16" Crown Staple): ASTM D3462, Pass

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<p>Where there are severe climates or slopes below 2:12, code requirements may dictate the use of an Ice and Water Shield at the roof perimeter. In this case, SlopeShield shall be installed in conjunction with the Ice and Water Shield and taped to it with 3" VaproTape.</p> <p>VaproShield also recommends it as a "Best Practice," to extend an ice and water shield 36 inches up each side of the roof valleys, 8-12 inches up the parapet walls, and around the roofing perimeter when roofing slopes are less than 2:12.</p> <p>Note: Local codes may vary (even with the minimums). Verify local code requirements where severe winter weather is expected.</p>	<p>K. Liquid Water Transmission: ASTM D4869, Pass</p> <p>L. Flamespread Index: ASTM E-84, Pass</p> <p>M. Smoke Development Index: ASTM E-84, Pass</p> <p>2.3 BUILDING OFFICIAL APPROVALS</p> <p>A. Materials which are not specifically prescribed by the 2006 International Building Code (IBC) may be approved by the local building official in accordance with the alternative materials design and method provisions in Section 104.11.</p> <p>2.4 AUXILIARY MATERIALS - Distributed by VaproShield LLC Tel# (866) 731-7663</p> <p>A. Underlayment Flashing</p> <ol style="list-style-type: none"> 1. Flashing Rolls: VaproFlashing™ 6-1/2", 11-3/4" and 19-2/3" widths x 164' long, Orange color 2. Factory Formed Corners (for roof curb/opening applications) <ol style="list-style-type: none"> a. VaproFlashing Factory Formed Corners™ 18" x 18" b. Others as may be approved by Addendum <p>B. Tape</p> <ol style="list-style-type: none"> 1. Single-Sided Tape: <ol style="list-style-type: none"> a. 3" VaproTape (Single-Sided) 20 mil, for use to secure SlopeShield to itself and to substrates b. Others as may be approved by Addendum 2. Double-Sided Sealing Tape <ol style="list-style-type: none"> a. 1" VaproTape (Double-Sided) 30 mil, for use to seal SlopeShield to itself and to substrates b. One inch wide butyl rubber tape, subject to approval of the Architect c. Others as may be approved by Addendum <p>C. Fasteners</p> <ol style="list-style-type: none"> 1. Wood Sheathing/Exterior Gypsum Substrate Application: <ol style="list-style-type: none"> a. Minimum No. 12-gage [.0129-inch-shank-diameter (2.11mm)] corrosion-resistant steel or stainless steel nails having a minimum 3/8-inch diameter (9.5mm) head, <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> b. No. 14 gage [.083-inch-shank-diameter (2.11mm)] corrosion-resistant galvanized steel or stainless steel nails having a 1-inch diameter (25.4mm) caps <p style="text-align: center;">OR</p> <ol style="list-style-type: none"> c. Minimum No. 16 gage [.065-inch-leg-diameter (1.65mm)] stainless steel or galvanized staples having minimum 7/16-inch (11.1 mm) crowns.
<p>SPECIFIERS NOTES</p>	<p>PART 3 - EXECUTION</p>

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<p>Select either 3.3.B or 3.3.C, BUT NOT BOTH (without special coordination on the drawings)</p>	<p>3.1 EXAMINATION</p> <p>A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance.</p> <p>3.2 SURFACE PREPARATION</p> <p>A. Clean and prepare substrate according to manufacturer's written recommendations. Provide clean and dry substrate for breathable underlayment application.</p> <p>3.3 PENETRATIONS</p> <p>A. Prepare all penetrations on the roof surface before beginning the "field" underlayment installation.</p> <p>B. Pipes and Conduit: Install manufactured penetration sleeves sized for the penetration and install as recommended by the manufacturer. Place 1" VaproTape (Double-Sided) across top and sides of penetration manufactured sleeve so that roof underlayment can be sealed against the skirt.</p> <p style="text-align: center;">or</p> <p>C. Large, Curbed, Roof Penetrations:</p> <ol style="list-style-type: none"> 1. Follow roof manufacturer's and curb manufacturer's approved shop drawings for curb and roof system installation. 2. Extend the underlayment over the curbs, utilize VaproFlashing Factory Formed Corners for cricket/curb applications, cut neatly and tape to the inside of the curbs with 3" VaproTape (Seam-Seal). <ol style="list-style-type: none"> a. Place additional piece of underlayment from ridge down to head over diversion crickets or other means so that condensate will be diverted beyond the sides of the opening. 3. After the penetration is fully wrapped, place 1" VaproTape (Double-Sided) across top and sides of penetration wrap, so that roof underlayment can be sealed against the skirt. <p>3.4 BREATHABLE UNDERLAYMENT APPLICATION</p> <p>A. Install membranes in accordance with manufacturer's instructions over [exterior sheathing] [metal decking] [metal purlins]. Secure the underlayment so that the subsurface is protected from weather until roofing can be installed.</p> <ol style="list-style-type: none"> 1. First wrap penetrations as specified and detailed. 2. Next, starting from the bottom, unroll underlayment, green side out, mechanically fasten breathable underlayment. <ol style="list-style-type: none"> a. Provide fasteners at 2' – 0" o.c. at top and bottom as breathable underlayment is unrolled. Contractor shall provide additional fasteners at edges and in the field as Contractor deems necessary to protect the underlayment from tearing due to wind or abuse in the field. Torn underlayment shall be repaired as specified below. 3. Seal against jambs of openings with 1" VaproTape (Double-Sided).
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	<p>3.5 FIELD QUALITY CONTROL</p> <p>A. [Owner will engage] [Engage] an independent inspector to observe substrate and installation. Inspector shall provide a written, sign-off log, on all penetrations before the underlayment is placed against them. Form of log shall be approved by Architect before contract with inspection service is approved.</p> <p>3.6 PROTECTING AND CLEANING</p> <p>A. Protect installed breathable underlayment from damage due to ultraviolet light, harmful weather exposures, physical abuse, and other causes. Manufacturer suggests a maximum of six (6) months UV exposure.</p> <p>1. Repair torn breathable underlayment as follows:</p> <ul style="list-style-type: none">a. Insert a full height piece of underlayment extending 12 inches horizontally beyond the damage up and extended up and under the underlayment above. Mechanically attach underlayment to substrate top and bottom.b. BEST PRACTICES IN ROOFING construction recommend applying permanent roof covering as soon as possible. <p>B. Remove mud and similar marks with a water scrub. If chemicals have been spilled on underlayment, treat as a tear and repair as stated above.</p>
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END OF SECTION