

SECTION 07 72 00

ROOF VENTILATION UNDERLAYMENT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Underlayment for wood shingle and shake construction
- B. Underlayment for metal roof

1.2 RELATED SECTIONS

- A. Section 061000 – Rough Carpentry
- B. Section 062000 – Finish Carpentry
- C. Section 074000 – Roofing & Siding Panels
- D. Section 074110 – Metal Roof Panels
- E. Section 053000 – Metal Decking

1.3 REFERENCES

- A. ASTM E84: – Standard Test Method for Surface Burning Characteristics of Building Materials
- B. ASTM C 165-00: – Standard Test Method for Measuring Compressive Properties of Thermal Insulations
- C. ASTM D 6818: Standard Test Method for Ultimate Tensile Properties of Rolled Erosion Control Products

1.4 SYSTEM DESCRIPTION

- A. R-VENT is a roof ventilation mat designed to create an air space to promote air flow in all directions between the roofing material and the sheathing below. Using a thin nylon matrix profile, R-Vent prolongs the life of the roof structure and membrane by reducing the adverse effects associated with moisture/water damage including mold, mildew, or corrosion and deterioration of the roofing material itself. R-Vent is extremely flexible and conforms to any contoured surface or roofing materials (cedar, metal, tile, etc.) and is perfect for residential and commercial roof applications.

1.5 SUBMITTALS

- A. Submit under the provision of Section 013300
- B. Product Data: Spec Data sheets from Manufacturer should be used, including
 - 1. Preparation instructions and recommendations
 - 2. Storage and handling requirements and recommendations
 - 3. Installation methods
- C. LEED Submittals: Provide documentation of how the requirements of Credit will be met
- D. Verification Samples: For each finished product specified, two samples, minimum size 6 inches (150mm) square, representing actual product, color, and patterns.

- E. Manufacturer's Certificate: Certify specified products meet or exceed specified requirements.
 - F. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.
- 1.6 QUALITY ASSURANCE
- A. Manufacturer Qualifications: Minimum 2 years production of similar products
 - B. Installer Qualifications: Minimum 2 years production of similar products
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Store products in manufacturer's unopened packaging until ready for installation.
 - B. Protect from harmful climate conditions
- 1.8 WARRANTY
- 1.9 A. Refer to manufacturer's warranty for product

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Advanced Building Products; PO Box 98, Springvale, ME 04083. Toll Free Tel: 800-252-2306, Tel: (207)-490-2306, Fax: (207)490-2998, Email: info@abp-1.com. Web: www.advancedbuildingproducts.com.

B. Substitutions: Not permitted.

C. Request for substitutions will be considered in accordance with provisions of Section 012500.

2.2 ROOF VENTILATION UNDERLAYMENT

A. Underlayment for Roof: Randomly oriented geometric patterned drainage and ventilation mat designed to eliminate moisture and moisture vapor in roof applications.

B. Product: R-Vent is manufactured by Advanced Building Products.

1. Physical Characteristics:

- a. 0.361 in. (9.16mm) thick
- b. 12.0 lbs (5.44kg) per roll
- c. 39.0 (99.06 cm) wide
- d. 61.5 ft. (18.75 m) long

2. Performance

- a. Drainage of moisture and ventilation between roof and back-up support.

3. Material: UV stabilized nylon

- a. Class-A flame spread per ASTM E84
- b. Does not support mold growth
- c. Resistant to known chemicals
- d. Hydrophobic compound

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared
- B. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPERATION

- A. Be sure surfaces are cleaned prior to installation

3.3 INSTALLATION

- A. Install in accordance with manufacturer's installation instructions
 - 1. Install R-Vent over roofing felt, ice protection membrane, and metal edge flashing or drip edge. Ensure R-Vent material is installed flush against edge of the flashing or drip edge. Carefully trim the R-Vent material at all penetrations with a utility knife or scissors.
 - 2. When installing cedar shingles, unroll the R-Vent horizontally just ahead of the shingles as they are installed. Tack or nail R-Vent in place every three square feet. Do not overlap the R-Vent material. Butt each course tightly against the previous course and at vertical seams.
 - 3. When installing vertical metal roof panels, unroll R-Vent vertically from ridge to eave just ahead of the metal panels as they are installed. Tack or nail R-Vent in place every three square feet. Do not overlap the R-Vent material. Butt each course tightly against the previous course and at vertical seams.
 - 4. At ridge locations, extend R-Vent material over the ridge and butt against the material on the opposite side of the roof. If a ridge vent is utilized, follow the ridge vent manufacturer's recommendations for underlayment material installation.

5. Apply roofing materials using manufacturer's recommended fasteners and instructions, allowing for the additional 3/8" thickness of the R-Vent material.

- B. Apply in dry weather
- C. Avoid walking on R-Vent. It could become slippery when wet

END OF SECTION