SECTION 07 21 00

ROOF INSULATION BAFFLES AND VENTS

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\*\* NOTE TO SPECIFIER \*\* ADO Products; Durovent roof vent and baffle products.  
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This section is based on the products of ADO Products, which is located at:  
2905 Northwest Blvd.   
Suite 230  
Plymouth, MN 55441  
Toll Free: 800-666-8191  
Phone: 763-428-7802  
Fax: 888-641-3904  
Web: [www.adoproducts.com](http://www.adoproducts.com)   
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Request Information  
ADO's humble beginnings in 1988 have led to company growth from a ventilation product manufacturer to a distribution leader of insulation accessories. Investments in ADO's team of employees, safety standards, and vendor network is the basis for ADO's solid reputation with contractors, distributors, and retailers throughout the United States and Canada. In the Mid 1990's, ADO began selling manufactured items at the national and international level through multiple retail channels. By 1998 demand of ADO's manufactured products led to the formation of the distribution segment. Today ADO distributes approximately 1500 accessory items that provide installation solutions for residential and light commercial insulation contractors throughout the United States.  
Ongoing energy code improvements for homes and businesses are bringing changes to insulation applications and product offerings. ADO strives to work closely with customers with a focus on improving products through manufacturing, pricing, and delivery options. New products and programs are continually in development to bring the best solutions making customers jobs easier, faster, and more profitable. ADO will continue to bring smart solutions to the insulation market and back it up with the necessary attention, service, and expert recommendations customers expect.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Roof Insulation Baffles and Vents.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 06 11 16 - Mechanically Graded Lumber.
    2. Section 06 15 00 - Wood Decking.
    3. Section 07 21 16 - Blanket Insulation
    4. Section 07 26 23 - Below-Grade Gas Retarders .
    5. Section 07 31 13 - Asphalt Shingles.
    6. Section 07 32 13 - Clay Roof Tiles.
    7. Section 07 60 00 - Flashing and Sheet Metal.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
  1. DESIGN / PERFORMANCE REQUIREMENTS
     1. Durovent extruded and formed polystyrene vents have a flame-spread index of 5 or less and smoke developed of 75 or less when tested in accordance with ASTM E 84.
  2. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.
     3. Verification Samples: For each product specified, two full size samples representing actual product.
     4. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
  3. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Manufacturer shall be a company that regularly manufactures attic insulation baffles and vents of the type specified.
  4. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging until ready for installation.
     2. For on-site storage longer than two weeks, slit packaging on 4 sides to allow the product to breathe, and then completely covered with a breathable tarpaulin.
     3. Protect products from open flame and keep dry at all times.
  5. SEQUENCING
     1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
  6. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended for optimum results.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: ADO Products, which is located at: 2905 Northwest Blvd. Suite 230; Plymouth, MN 55441; Toll Free Tel: 800-666-8191; Tel: 763-428-7802 ; Fax: 888-641-3904; Email: [request info (sales@adoproducts.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=ADO+Products&coid=30146&rep=&fax=888-641-3904&message=RE:%20Spec%20Question%20(07210ado):%20%20&mf=); Web: [www.adoproducts.com](http://www.adoproducts.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Select the products required for the project from the following paragraphs and delete those that are not applicable.

* 1. PRODUCTS

\*\* NOTE TO SPECIFIER \*\* Durovent is the most economical way to ventilate your roof and block out the wind and rain and is ideal for conventional attic conditions. Suitable for use in conventional attics, finished attics and cathedral ceilings. Use with Windblock to provide the best moisture and air infiltration seal between the rafter vent and wall top plate.

* + 1. Durovent: One-piece vent of extruded polystyrene foam (EPS) with lightweight waterproof air channel and wide stapling flanges.
       1. Joist Spacing: 16 or 24 inches O.C.

\*\* NOTE TO SPECIFIER \*\* Select the size required and delete the one not required.

* + - 1. Size:
         1. Width: 22 inches perforated at centerline to fit joist spacing.
         2. Vent Body Length: 48 inches.
         3. Air Channel Depth: 1.4 inches
         4. Net Free Area: 18.7 per square inch.
      2. Size:
         1. Width: 22 inches perforated at centerline to fit joist spacing.
         2. Vent Body Length: 72 inches.
         3. Air Channel Depth: 1.4 inches
         4. Net Free Area: 18.7 per square inch.

\*\* NOTE TO SPECIFIER \*\* Durovent Baffle® is the most economical way to ventilate your roof and block out the wind and rain and is ideal for conventional attic conditions. The Durovent Baffle eliminates the need for using blocking material such as batt insulation between the vent and the wall top plate, as is commonly the practice for installation of rafter vents without an integral baffle.

* + 1. Durovent Baffle: One-piece friction fit vent and baffle of extruded polystyrene foam (EPS). Durovent Baffle is waterproof and will block moisture and wind from penetrating the attic.
       1. Joist Spacing: 24 inches O.C.
       2. Baffle is suitable for heel height of 7-3/8 inches to 11-3/8 inches.
       3. Size:
          1. Width: 22.5 inches.
          2. Total Length with baffle: 46 inches
          3. Vent Body Length: 36 inches.
          4. Air Channel Depth: 1.13 inches
          5. Net Free Area: 25.3 per square inch.

\*\* NOTE TO SPECIFIER \*\* ProVent® is ideal for premium construction and for difficult applications like re-insulation. Made with Pro Grade tear-resistant high impact more rigid black plastic. Suitable for use in conventional attics, finished attics and cathedral ceilings. Use with Windblock to provide the best moisture and air infiltration seal between the rafter vent and wall top plate.

* + 1. ProVent is formed of waterproof high impact polystyrene foam (HIPS) that provides a lightweight air channel on the underside of the roof sheathing.

\*\* NOTE TO SPECIFIER \*\* Select the joist spacing and vent size required and delete the one not required.

* + - 1. Joist Spacing:
         1. 16 inches O.C.

\*\* NOTE TO SPECIFIER \*\* Select the size required and delete those not required.

* + - 1. Vent Size:
         1. Width: 11 inches.
         2. Total Length: 48 inches
         3. Air Channel Depth: 1.4 inches
         4. Net Free Area: 12 per square inch.
      2. Vent Size:
         1. Width: 14 inches.
         2. Total Length: 48 inches
         3. Air Channel Depth: 1.4 inches
         4. Net Free Area: 12 per square inch.
      3. Vent Size:
         1. Width: 22 inches.
         2. Total Length: 48 inches
         3. Air Channel Depth: 1.4 inches
         4. Net Free Area: 26 per square inch.
      4. Joist Spacing:
         1. 24 inches O.C.

\*\* NOTE TO SPECIFIER \*\* Provides the best moisture and air infiltration seal between the rafter vent and wall top plate. Works well with Durovent® and proVent®attic ventilation channels to provide a moisture-impervious vent and block system.

* + 1. Windblock: Prevents wind-driven moisture at top plate, acts as insulation stop, and reduces energy loss at the attic perimeter. Made of coated polyboard, Windblock is water resistant. Designed for use with Durovent and proVent attic ventilation channels.
       1. Joist Spacing:
          1. 16 or 24 inches O.C.
       2. Baffle is suitable for heel height of 3-3/4 inches to 11 inches.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. Verify deck, adjacent materials, and structural backing is dry and ready to receive vents and insulation.
      3. Verify that there is an unobstructed pathway to the truss channel from within the structure.
      4. Verify deck surface is flat, free of fins or protrusions and irregularities.
      5. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions.
      2. Durovent Ventilation Channel:
         1. Place ventilation channel over top plate, approximately 1 inch.
         2. Secure ventilation channel to roof deck with staples in the stapling flanges
         3. Install attic insulation tight against the ventilation channel.
         4. One ventilation channel per rafter or truss cavity is recommended
         5. Cathedral ceilings require a continuous run of ventilation channels from intake to exhaust leaving a 1 inch gap between each vent.
      3. Durovent Baffle:
         1. Insert the ventilation channel in the truss opening and slide the vent toward the top plate.
         2. Position baffle and pre-fold portion of the ventilation channel to fit the heel height. Baffle section should be vertical and the Durovent Baffle logo should be visible. You may need to remove the perforated pre-folded pieces attached to the tail portion if the heel height exceeds 7-3/8 inches, allowing for a portion of the pre-folded tail (1 inch increments) to be used as part of the baffle.
         3. Staple the ventilation channel and baffle flanges to the sides of the trusses once the baffle (block) is vertically aligned with exterior of the wall top plate and the cones are touching the roof deck across the vent body. Finish by tacking the pre-folded tail to the top of the wall top plate.
         4. One ventilation channel per rafter or truss cavity is recommended
      4. ProVent:
         1. Slide proVent over top plate approximately 1 inch.
         2. Secure proVent to roof deck with staples on outer flanges.
         3. Install attic insulation tight against proVent.
         4. One ventilation channel per rafter or truss cavity is recommended.
         5. Cathedral ceilings require a continuous run of ventilation channels from intake to exhaust leaving 1 inch gap between each vent for removal of trapped moisture.
      5. Windblock:

\*\* NOTE TO SPECIFIER \*\* Edit the following paragraph for as required. Delete the paragraphs that are not applicable.

* + - 1. When used with Durovent ventilation channel 24 O.C.
         1. Position ventilation channel opening to top.
         2. Measure distance from top place to roof deck (this is truss height).
         3. Use truss height to determine lengthwise folds.
         4. Install ventilation channel with staples, vent should extend over top plate a few inches (into soffit area).
         5. Position Windblock between ventilation channel and top plate.
         6. Secure top of Windblock with staple, using staple tabs to roof deck through the ventilation channel.
         7. Secure base of Windblock with staples to top plate
      2. Windblock: When used with proVent 24 O.C.
         1. Position proVent knockouts to top and remove applicable knockout.
         2. Measure distance from top place to roof deck (this is trust height).
         3. Use truss height to determine lengthwise folds.
         4. Install proVent with staples. Vent should extend over top plate a few inches (into soffit area).
         5. Position Windblock between proVent and top plate
         6. Secure top of Windblock with staple, using staple tabs to roof deck through the proven.
         7. Secure base of Windblock with staples to top plate.
      3. Windblock: When used with Durovent 16 inches O.C.
         1. Fold Windblock upward at score line 3.
         2. Fold Windblock downward at score line 2.
         3. Score line 3 arrow should touch arrow line 1.
         4. Use truss height to determine lengthwise folds.
         5. Position Windblock at top plate.
         6. Install Durovent with staples.
         7. Secure Windblock using staple tabs.
      4. Windblock: When used with ProVent 16 inches O.C.
         1. Tear out entire proVent 22 inch knockout.
         2. Fold Windblock upward at score line 3.
         3. Fold Windblock downward at score line 2.
         4. Score line 3 arrow should touch arrow line 1.
         5. Use truss height to determine lengthwise folds.
         6. Position Windblock at top of plate.
         7. Install proVent with staples.
         8. Secure Windblock using staple tabs.
  1. PROTECTION
     1. Protect installed products until completion of project.
     2. Repair or replace damaged products before Substantial Completion.

END OF SECTION