SECTION 04090

MASONRY CAVITY DRAINAGE, WEEPHOLES, AND VENTS

Display hidden notes to specifier. (Don't know how? [Click Here](http://www.arcat.com/sd/display_hidden_notes.shtml))

*Copyright 2008 - 2016 ARCAT, Inc. - All rights reserved*

\*\* NOTE TO SPECIFIER \*\* Advanced Building Products, Inc.; Engineered rain screen products, mortar deflectors, and masonry accessories.  
This section is based on the products of Advanced Building Products, Inc., which is located at:  
95 Cyro Dr.  
Sanford, ME 04073  
Toll Free Tel: 800-252-2306  
Tel: 207-490-2306  
Fax: 207-490-2998  
Email: [request info (klolley@abp-1.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Advanced+Building+Products,+Inc.&coid=30161&rep=&fax=207-490-2998&message=RE:%20Spec%20Question%20(04090abp):%20%20&mf=)  
Web: [www.advancedbuildingproducts.com](http://www.advancedbuildingproducts.com)   
 [ [Click Here](http://www.arcat.com/arcatcos/cos30/arc30161.html) ] for additional information.  
The people here at Advanced Building Products have built a solid reputation for designing, manufacturing and marketing high quality masonry drainage products for the past 40 years. In 2007 Advanced Building Products expanded our manufacturing capabilities to include a whole new line of geotextile products, which include: rainscreen drainage mats, roof ventilation mats, green roof drainage & growing mats, sound management products, and many new innovative products still in the design stage.  
With in-house and field technicians at your service, and an international network of distribution, we're here to provide both commercial and residential projects everything needed for moisture management and wall ventilation.

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Masonry rainscreens.
    2. Masonry cavity wall drainage mats.
    3. Mortar deflectors.
    4. Masonry accessories.
  1. RELATED SECTIONS

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

* + 1. Section 04200 - Unit Masonry.
    2. Section 04400 - Stone Masonry.
    3. Section 04700 - Manufactured Masonry.
    4. Section 07060 - Rainscreen Drainage Mat.
    5. Section 07460 - Siding.
    6. Section 09220 - Cement Stucco.
  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 International (ASTM):
       1. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants.
       2. ASTM D 638 - Standard Test Method for Tensile Properties of Plastics.
       3. ASTM D 790 - Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
       4. ASTM D 792 - Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement.
       5. ASTM D 822 - Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.
       6. ASTM D 2240 - Standard Test Method for Rubber PropertyDurometer Hardness.
       7. ASTM D 1238B - Standard Test Method for Melt Flow Rates of Thermoplastics by Extrusion Plastometer.
       8. ASTM D 2822 - Standard Specification for Asphalt Roof Cement, Asbestos Containing.
       9. ASTM D 4716 - Standard Test Method for Determining the (In-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head.
       10. ASTM D 5035 - Breaking Force and Elongation of Textile Fabrics (Strip Method).
       11. ASTM D 5261 - Standard Test Method for Measuring Mass per Unit Area of Geotextiles.
       12. ASTM D 5736 - Standard Test Method for Thickness of Highloft Nonwoven Fabrics.
       13. ASTM D 6242 - Standard Test Method for Mass Unit Area of Nonwoven Fabrics
       14. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
       15. ASTM E2925 - Standard Specification for Manufactured Polymeric Drainage and Ventilation Materials Used to Provide a Rainscreen Function.

\*\* NOTE TO SPECIFIER \*\* The standards listed below are the standards referred to in ASTM E2925.

* + - * 1. ASTM C578 - Specification for Rigid, Cellular Polystyrene Thermal Insulation.
        2. ASTM C1338 - Test Method for Determining Fungi resistance of Insulation Materials and Facings.
        3. ASTM D3045 - Practice for Heat Aging of Plastics Without Load.
        4. ASTM D5199 - Test Method for Measuring the Nominal Thickness of Geosynthetics.
        5. ASTM D5322 - Practice for Laboratory Immersion Procedures for Evaluating the Chemical Resistance of Geosynthetics to Liquids.
        6. ASTM D6108 - Test Method for Compressive Properties of Plastic Lumber and Shapes.
        7. ASTM D6364 - Test Method for Determining Short-Term Compression Behavior of Geosynthetics.
        8. ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
        9. ASTM E283 - Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
        10. ASTM 631 - Terminology of Building Constructions.
        11. ASTM 2273 - Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies.
        12. ASTM 2556/E2556M - Specification for Vapor Permeable Flexible Sheet Water-Resistive Barriers Intended for Mechanical Attachment.
        13. ASTM G154 - Practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for Exposure of Nonmetallic Materials.
    1. Unites States Federal Specifications:
       1. SS-C-153 - Federal Specification: Cement, Bituminous, Plastic.
       2. TT-S-00230-C - Sealing Compound: Elastomeric Type, Single Component.
    2. Erosion Control Technology Council (ECTC) TASC 00197 - Porosity Test.
  1. SUBMITTALS
     1. Submit under provisions of Section 01300.
     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 finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
  2. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
     2. Installer Qualifications: Minimum 2 year experience installing similar products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship is approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
  1. PRE-INSTALLATION MEETINGS
     1. Convene minimum two weeks prior to starting work of this section.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
     2. Handling: Handle materials to avoid damage.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. SEQUENCING
     1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Advanced Building Products, Inc., which is located at: 95 Cyro Dr.; Sanford, ME 04073; Toll Free Tel: 800-252-2306; Tel: 207-490-2306; Fax: 207-490-2998; Email: [request info (klolley@abp-1.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Advanced+Building+Products,+Inc.&coid=30161&rep=&fax=207-490-2998&message=RE:%20Spec%20Question%20(04090abp):%20%20&mf=); Web: [www.advancedbuildingproducts.com](http://www.advancedbuildingproducts.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 01600.
  1. MASONRY RAINSCREENS

\*\* NOTE TO SPECIFIER \*\* Masonry rainscreens create pressure-equalized airspace between structural envelope and exterior masonry cladding.

* + 1. Drainage Mat: Randomly oriented polypropylene core mesh, geometrically configured, designed for drainage of moisture and moisture vapor in wall applications.

\*\* NOTE TO SPECIFIER \*\* Product Selection: Use Mortairvent 202 (.25 inch (6 mm) nominal thickness) for manufactured stone, thin-set natural stone, stucco, and siding. For natural stone or brick, use any Mortairvent rainscreen product.

* + 1. Basis of Design: Mortairvent as manufactured by Advanced Building Products, Inc.

\*\* NOTE TO SPECIFIER \*\* Delete paragraphs not required.

* + 1. Polypropylene core mesh. Mortairvent 202, two-ply mat. Cornrow configuration, spun and heat welded into entangled geo-matrix. 0.25 inch (6 mm) nominal thickness.
       1. Filter Fabric: Polyester; laminated to outside of core mesh. Recycled content: Up to 40 percent.
       2. Thickness: 0.268 inch (6.81 mm).
       3. Density, ASTM D 792, Method A: 0.0325 lbs per cu in (0.901 g per cu cm).
       4. Porosity, ECTC TASC 00197: 93.8 percent.
       5. Mass per Unit Area, ASTM D 5261:
          1. Composite: 11.25 oz per sq yd (382 g per sq m).
          2. Core: 9.20 oz per sq yd (312 g per sq m).
       6. Hydraulic Transmissivity, Machine Direction, ASTM D 4716:
          1. Flow Rate: 3.70 gpm (14 lpm) per 1 ft (.3 m) width.
          2. Transmissivity: 0.0823 sq ft per s (0.00765 sq m per s).
       7. Air Transmissivity, ASTM D 4716, Modified:
          1. Estimated Flow Rate: 15.8 cfm (447.4 lpm) per 1 ft (.3 m) width.
          2. Incremental Transmissivity: 0.007502 sq ft per s (0.000697 sq m per s).
       8. Fire Rating, ASTM E 84: Class A.
    2. Polypropylene core mesh. Mortairvent 203, two-ply mat. Waffle configuration, spun and heat welded into entangled geomatrix, 0.4 inch (10 mm) nominal thickness.
       1. Filter Fabric: Polyester; laminated to outside of core mesh. Recycled content: Up to 40 percent.
       2. Thickness: 0.407 inch (10.3 mm).
       3. Density, ASTM D 792, Method A: 0.033 lbs per cu in (0.903 g per cu cm).
       4. Porosity, ECTC TASC 00197: 95.3 percent.
       5. Mass per Unit Area, ASTM D 5261:
          1. Composite: 15.10 oz per sq yd (512 g per sq m).
          2. Core: 13.05 oz per sq yd (442 g per sq m).
       6. Hydraulic Transmissivity, Machine Direction, ASTM D 4716:
          1. Flow Rate: 7.01 gpm (26.5 lpm) per 1 ft (.3 m) width.
          2. Transmissivity: 0.156 sq ft per s (0.0145 sq m per s).
       7. Air Transmissivity, ASTM D 4716, Modified:
          1. Estimated Flow Rate: 54.5 cfm (1543.3 lpm) per 1 ft (.3 m) width.
          2. Incremental Transmissivity: 0.026 sq ft per s (0.00241 sq m per s).
       8. Fire Rating, ASTM E 84: Class A.
    3. Polypropylene core mesh. Two-ply mat. Random configuration, spun and heat welded into entangled geomatrix, 0.8 inch (20 mm) nominal thickness.
       1. Filter Fabric: Polyester; laminated to outside of core mesh. Recycled content: 40 percent minimum.
       2. Thickness: 0.768 inch (19.5 mm).
       3. Density, ASTM D 792, Method A: 0.033 lbs per cu in (0.910 g per cu cm).
       4. Porosity, ECTC TASC 00197: 97.7 percent.
       5. Mass per Unit Area, ASTM D 5261: 12.15 oz per sq yd (412 g per sq m).
       6. Hydraulic Transmissivity, Machine Direction, ASTM D 4716:
          1. Flow Rate: 12.0 gpm per (45.42 lpm) per 1 ft (.3 m) width.
          2. Transmissivity: 0.267 sq ft per s (0.0248 sq m per s).
       7. Air Transmissivity, ASTM D 4716, Modified:
          1. Estimated Flow Rate: 89.5 cu ft per min (2534.36 l per min) per 1 ft (.3 m) width.
          2. Incremental Transmissivity: 0.043 sq ft per s (0.00396 sq m per s).
       8. Fire Rating, ASTM E 84: Class A.
  1. MASONRY CAVITY WALL DRAINAGE MATS

\*\* NOTE TO SPECIFIER \*\* Masonry cavity wall drainage vent creates a mortar-free airspace between structural envelope and exterior masonry cladding to promote moisture drainage and ventilation of a full height, masonry cavity wall.

* + 1. Basis of Design: Mortairvent CW, as manufactured by Advanced Building Products, Inc.
    2. Polypropylene core mesh. Two-ply mat. Waffle configuration, spun and heat welded into entangled geomatrix, 0.4 inch (10 mm) nominal thickness.
       1. Mortar Deflection Fabric: Polyester; laminated to outside of core mesh. Recycled content: 100 percent.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs below.

* + - 1. Product Width: 16 inches (40.64 cm).
      2. Product Width: 39 inches (99.06 cm).
      3. Thickness: 0.407 inch (10.3 mm).
      4. Density, ASTM D 792, Method A: 0.033 lbs per cu in (0.903 g per cu cm).
      5. Porosity, ECTC TASC 00197: 95.3 percent.
      6. Mass per Unit Area, ASTM D 5261:
         1. Composite: 15.10 oz per sq yd (512 g per sq m).
         2. Core: 13.05 oz per sq yd (442 g per sq m).
      7. Hydraulic Transmissivity, Machine Direction, ASTM D 4716:
         1. Flow Rate: 7.01 gpm (26.5 lpm) per 1 ft (.3 m) width.
         2. Transmissivity: 0.156 sq ft per s (0.0145 sq m per s).
      8. Air Transmissivity, ASTM D 4716, Modified:
         1. Estimated Flow Rate: 54.5 cfm (1543.3 lpm) per 1 ft (.3 m) width.
         2. Incremental Transmissivity: 0.026 sq ft per s (0.00241 sq m per s).
      9. Fire Rating, ASTM E 84: Class A.
    1. Polypropylene core mesh. Two-ply mat. Random configuration, spun and heat welded into entangled geomatrix, 0.8 inch (20 mm) nominal thickness.
       1. Mortar Deflection Fabric: Polyester; laminated to outside of core mesh. Recycled content: 100 percent.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs below.

* + - 1. Product Width: 16 inches (40.64 cm).
      2. Product Width: 39 inches (99.06 cm).
      3. Thickness: 0.768 inch (19.5 mm).
      4. Density, ASTM D 792, Method A: 0.033 lbs per cu in (0.910 g per cu cm).
      5. Porosity, ECTC TASC 00197: 97.7 percent.
      6. Mass per Unit Area, ASTM D 5261: 12.15 oz per sq yd (412 g per sq m).
      7. Hydraulic Transmissivity, Machine Direction, ASTM D 4716:
         1. Flow Rate: 12.0 gpm per (45.42 lpm) per 1 ft (.3 m) width.
         2. Transmissivity: 0.267 sq ft per s (0.0248 sq m per s).
      8. Air Transmissivity, ASTM D 4716, Modified:
         1. Estimated Flow Rate: 89.5 cu ft per min (2534.36 l per min) per 1 ft (.3 m) width.
         2. Incremental Transmissivity: 0.043 sq ft per s (0.00396 sq m per s).
      9. Fire Rating, ASTM E 84: Class A.
  1. MORTAR DEFLECTORS

\*\* NOTE TO SPECIFIER \*\* 1.0 inch (25 mm) thick Mortar Maze is recommended for 1 to 1-3/4 inch (25 to 44 mm) wide cavities. 2 inch (51 mm) thick Mortar Maze is recommended for 2 inches (51 mm) wide cavities. Mortar Maze is polymer mesh strips with a geometric design to be placed in masonry cavities to break up and deflect mortar droppings.

* + 1. Basis of Design: Mortar Maze, as manufactured by Advanced Building Products, Inc.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two subparagraphs below.

* + - 1. Composition: 1 inch (25 mm) thick high density polypropylene 90 percent open woven mesh formed into geometric design.
      2. Composition: 2 inch (51 mm) thick, high density polypropylene 90 percent open woven mesh formed into geometric design.
      3. Width: 11 inches (279 mm).
      4. Length: 5 ft (1.52 m).
      5. Properties tested in accordance with ASTM D5035:
         1. Tensile strength:

Roll direction: 285 psi (1965 kPa) minimum.

Cross roll direction: 310 psi (2137.4 kPa) minimum.

* + - * 1. Elongation:

Roll direction: 60 percent.

Cross roll direction: 55 percent.

\*\* NOTE TO SPECIFIER \*\* 1.0 inch (25 mm) thick Mortar Break DT is recommended for 1 to 1-3/4 inch (25 to 44 mm) wide cavities. 2 inch (51 mm) thick Mortar Break DT is recommended for 2 inches (51 mm) wide cavities. Mortar Break is a multi-level mortar deflection system for cavity wall construction that breaks up mortar on four different levels.

* + 1. Basis of Design: Mortar Break DT, as manufactured by Advanced Building Products, Inc.

\*\* NOTE TO SPECIFIER \*\* Delete two of the three subparagraphs below.

* + - 1. Composition: 1 inch (25 mm) thick high density polypropylene, 90 percent open woven, molded mesh formed into geometric design.
      2. Composition: 2 inch (51 mm) thick high density polypropylene, 90 percent open woven, molded mesh formed into geometric design.
      3. Composition: 0.4 inch (10mm) thick, high density polypropylene, 90 percent open woven, molded mesh formed into geometric design.
      4. Width: 10 inches (254 mm).
      5. Length: 5 ft. (1.52 m).
      6. Properties tested in accordance with ASTM D5035:
         1. Tensile strength:

Roll direction: 285 psi (1965 kPa) minimum.

Cross roll direction: 310 psi (2137.4 kPa) minimum.

* + - * 1. Elongation:

Roll direction: 60 percent.

Cross roll direction: 55 percent.

\*\* NOTE TO SPECIFIER \*\* 0.8 inch (20 mm) thick Mortar Break is recommended for 1 to 1-3/4 inch (25 to 44 mm) wide cavities. Mortar Break is polymer mesh strips with a dimple design to be placed in masonry cavities to break up and deflect mortar droppings.

* + 1. Basis of Design: Mortar Break, as manufactured by Advanced Building Products, Inc.
       1. Composition: 0.8 inch (20 mm) thick high density polypropylene, 90 percent open woven mesh formed into dimple design.
       2. Width: 10 in (254 mm).
       3. Width: 13 in (330 mm)
       4. Width: 16 in (406 mm).
       5. Width: 20 in (508 mm).
       6. Width: 39 in (991 mm).
       7. Roll Length: 50 ft. (152.4 m).
       8. Properties tested in accordance with ASTM D5035:
          1. Tensile strength:

Roll direction: 285 psi (1965 kPa) minimum.

Cross roll direction: 310 psi (2137.4 kPa) minimum.

* + - * 1. Elongation:

Roll direction: 60 percent.

Cross roll direction: 55 percent.

\*\* NOTE TO SPECIFIER \*\* 1.6 inch (41 mm) thick Mortar Break II is recommended for 2 inch (51 mm) wide cavities. Mortar Break II is polymer mesh strips with a dimple design to be placed in masonry cavities to break up and deflect mortar droppings.

* + 1. Basis of Design: Mortar Break II, as manufactured by Advanced Building Products, Inc.
       1. Composition: 1.6 inch (40 mm) thick high density polypropylene, 90 percent open woven mesh formed into dimple design.
       2. Width: 10 in (254 mm).
       3. Roll Length: 35 ft. (10.7 m).
       4. Properties tested in accordance with ASTM D5035:
          1. Tensile strength:

Roll direction: 285 psi (1965 kPa) minimum.

Cross roll direction: 310 psi (2137.4 kPa) minimum.

* + - * 1. Elongation:

Roll direction: 60 percent.

Cross roll direction: 55 percent.

\*\* NOTE TO SPECIFIER \*\* 0.4 inch (10 mm) thick Mortar Catch is recommended for wide cavity construction (greater than 2 inch (51 mm) wide cavities). Mortar Catch is nylon mesh strips designed to be placed in masonry cavities to break up and deflect mortar droppings.

* + 1. Basis of Design: Mortar Catch, as manufactured by Advanced Building Products, Inc.
       1. Composition: 0.4 inch (10 mm) thick high nylon open woven mesh.
       2. Width: 10 in (254 mm).
       3. Width: 20 in (508 mm).
       4. Width: 39 in (991 mm).
       5. Roll Length: 100 ft. (30.5 m).
       6. Properties tested in accordance with ASTM D5035:
          1. Tensile strength:

Roll direction: 285 psi (1965 kPa) minimum.

Cross roll direction: 310 psi (2137.4 kPa) minimum.

* + - * 1. Elongation:

Roll direction: 60 percent.

Cross roll direction: 55 percent.

* + 1. CMU Mortar Deflection and Bonding Screen
       1. Basis of Design: Grout Catch, as manufactured by Advanced Building Products, Inc.
          1. Strong, lightweight, UV stabilized polymer mesh screen formulated with a high tensile and burst strength micro-thin material.
          2. Core material: Polypropylene.
          3. Length: 100 ft (30.5 m).

\*\* NOTE TO SPECIFIER \*\* For 8 in CMU block.

* + - * 1. Width: 6 in.

\*\* NOTE TO SPECIFIER \*\* For 10 in CMU block.

* + - * 1. Width: 8 in.

\*\* NOTE TO SPECIFIER \*\* For 12 in CMU.

* + - * 1. Width: 10 in.
  1. MASONRY ACCESSORlES
     1. Weep Vents:
        1. Basis of Design: Mortar Maze Cell (Weep) Vent system, as manufactured by Advanced Building Products, Inc.
           1. Cellular, honeycomb design weep vents for embedding in masonry wall mortar joints.
           2. Material: High density polypropylene, impervious to water and resistant to UV degradation. Tested in conformance with ASTM D 2240, ASTM D 790B, ASTM D 638, and ASTM D 1238B
           3. Size: 3/8 by 2 1/2 by 3 3/8 in (10 by 64 by 86 mm).
           4. Size: 3/8 by 3 1/2 by 3 1/2 in (10 by 89 by 89 mm).
           5. Color: Selected by Architect from manufacturer's full range.
           6. Color: Match mortar color.
           7. Color: Clear.
           8. Color: White.
           9. Color: Tan.
           10. Color: Gray.
           11. Color: Cocoa.
           12. Color: Brown.
           13. Color: Black.
           14. Color: \_\_\_\_\_\_.
     2. Weep Tubes:
        1. Basis of Design: Mortar Maze Weep Tubes, as manufactured by Advanced Building Products, Inc.
           1. Durable clear or opaque polymer.
           2. Dimensions: 3/8 in (10 mm) diameter by 4 in (102 mm) long.

Cotton wicks.

Stainless steel screen.

* + 1. Weep Mesh:
       1. Basis of Design: Mortar Break Weep Mesh, as manufactured by Advanced Building Products, Inc.
          1. Non-woven, flame retardant polyester fiber material tested in conformance to ASTM D5736 and ASTM D6242.
          2. Thickness: 1/2 in (13 mm).
          3. Size: 2 1/2 by 3 1/2 in (64 by 89 mm)
    2. Termination Bars:
       1. Basis of Design: Advanced Termination Bars, as manufactured by Advanced Building Products, Inc.
          1. Stainless Steel Termination Bars: 0.075 in (2 mm) thick, 1 in (25 mm) wide, and 96 in (2438 mm) long. Holes 8 in (203 mm) on center.
          2. Aluminum (Alloy 6063) Termination Bars: 0.090 in (2.3 mm) thick, 1 in (25 mm) wide, and 120 in (3048 mm). Holes are 8 in (203 mm) on center.
          3. PVC Plastic Termination Bars: 0.125 in (3 mm) thick, 1 in (25 mm) wide, 96 in (2438 mm) long. Plastic Termination Bars can be custom cut to size and easily fastened on the job site. No pre-drilled holes.

\*\* NOTE TO SPECIFIER \*\* Moistseal is intended for use as a concealed waterproofing membrane on foundation walls and under concrete slabs; foundation damp proofing, slab damp proofing, an under slab damp proofing.

* + 1. Waterproofing:
       1. Basis of Design: Moistseal, as manufactured by Advanced Building Products, Inc.
          1. Polyvinyl chloride sheet waterproofing membrane.

No cracking or flaking when bent through 180 degrees over a 1/32 in (.8 mm) mandrel and then bent at the same point over the same size mandrel in the opposite direction through 360 degrees.

* + - * 1. Standards compliance: ASTM D-822 for at least 400 hours.
        2. Color: Black.
        3. Thickness: Type 20 - 0.020 in (0.51 mm) weighing approx. 22 ounces per sq. yd (746 grams per sq. m).

Width: 48 in (1219 mm).

Width: 60 in (1524 mm).

* + - * 1. Thickness: Type 30 - 0.030 in (0.76 mm) weighing approx. 33 ounces per sq. yd (119 grams per sq. m).

Width: 48 in (1219 mm).

* + 1. Sealants:
       1. Basis of Design: Sealtite, as manufactured by Advanced Building Products, Inc.
          1. Standards compliance: TT-S-00230C, Type II, Class A and ASTM C920, Grade NS, Class 2.
          2. Material: High performance acrylic urethane latex. Permanently flexible, non-flammable, easy water cleanup, cured sealant is paintable, mildewcide added to protect cured sealant.
          3. VOC level: 1.33 oz per gal (10 grams per liter).

\*\* NOTE TO SPECIFIER \*\* Specific times vary due to temperature and humidity.

* + - * 1. Cure time: Tooling - 10 to 20 minutes; skin time - 30 to 60 minutes; Full cure - 24 hours to 14 days.
        2. Shore "A" hardness: 35.
        3. Tensile strength: 70 psi (482.6 kPa).
        4. Elongation 900 percent.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

* + - * 1. Color: Clear (White when applied, cures clear).
        2. Color: White 001.
        3. Color: Clay 301.
        4. Color: Beige 409.
        5. Color: Beige 425.
        6. Color: Beige 429.
        7. Color: Beige 445.
        8. Color: Beige 451.
        9. Color: Beige 455.
        10. Color: Beige 466,
        11. Color: Gray 511.
        12. Color: Gray 521.
        13. Color: Green 706.
        14. Color: \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Used with Copper laminated flashings. Can also be used as a general purpose cement for repairing leaks in asphalt roofs, metal roofs, chimneys, flues,  
down spouts and concrete.

* + - 1. Basis of Design: Cop-R-Tite Flashing Mastic, as manufactured by Advanced Building Products, Inc.
         1. Compounded, trowel grade composition of asphalt, mineral stabilizers, and interfibe. providing a durable weather resistant, elastic coating with excellent adhesion properties.
         2. Standards compliance: SS-C-153 Type 1, SSPC No. 12, and ASTM D2822 Type 1.
         3. Boiling Point: 650 degrees F (343.3 degrees C).
         4. Flash point and method: 110 degrees F (43.3 degrees C).
         5. Solubility in water: None.
         6. Color: Black.
    1. Primer:

\*\* NOTE TO SPECIFIER \*\* Quick dry, high-tack primer provides maximum bond to asphalt, concrete, masonry and metal surfaces.

* + - 1. Basis of Design: Low VOC Waterproofing Primer, as manufactured by Advanced Building Products, Inc.
         1. Primer Seal is a high quality, rubberized, low VOC primer, formulated for waterproofing.
         2. Solids content: 38 percent by weight.
         3. Tack free time: 30 minutes at 75 degrees F (23.9 degrees C).
         4. VOC: Less than 60 oz per gal (450 grams per liter).
         5. Flash point Less than 68 degrees F (20 degrees C).

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. 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.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install roofing accessories per manufacturer's instructions and approved submittals. Install in proper relationship to adjacent construction.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION