SECTION 04 05 23

MASONRY ACCESSORIES

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\*\* NOTE TO SPECIFIER \*\* Mortar Net Solutions®; masonry wall drainage systems.  
This section is based on the products of Mortar Net Solutions®, which is located at:6575 Daniel Burnham Dr., Suite GPortage, IN 46368Toll Free Tel: 800-664-6638Fax: 219-787-5088Email: [request info (abrooks@mortarnet.com)](https://arcat.com/rfi?action=email&company=Mortar%252BNet%252BSolutions%25C2%25AE&message=RE%253A%2520Spec%2520Question%2520(04090mor)%253A%2520&coid=34325&spec=04090mor&rep=&fax=219-787-5088)  
Web: <http://www.mortarnet.com>   
  
 [ [Click Here](https://arcat.com/company/mortar-net-solutions-34325) ] for additional information.  
  
Mortar Net Solutions is the industry-leading mortar dropping collection device. Made from a 90 percent open-weave mesh with a patented Insect Barrier, it prevents mortar droppings from clogging weep holes in masonry cavity wall construction by catching and suspending mortar droppings and other debris on two levels above the flashing and weep holes. It prevents the mortar from forming a barrier against necessary water flow, allowing for the free migration of moisture in the cavity to the flashing and out of the weep holes.  
Mortar Net Solution's efficient moisture management helps eliminate efflorescence on interior and exterior masonry walls, helps prevent damage caused by freeze-thaw cycles, and helps prevent the conditions that allow mold to develop, ensuring optimum performance of the walls. WeepVent or CellVent are used in conjunction with MortarNet to prevent insects and debris from clogging weep vents and to ensure that masonry walls retain their finished appearance.  
Other products provided by Mortar Net Solutions to manage moisture in masonry construction include the mortar dropping collection devices HouseNet with Insect Barrier; the TotalFlash Cavity Wall Drainage Solution flashing system and CompleteFlash 14 Inch High Corner Boots and end dams for masonry cavity walls; the WallNet and DriPlane are continuous drainage planes for rainscreen systems, and stone and stucco veneers; the LathNet metal lath and drainage plane system for adhered masonry veneers; the LathNet metal lath and rainscreen drainage system; and BlockFlash and BlockNet flashing solutions for single wythe concrete block construction.

1. GENERAL
   1. SECTION INCLUDES
      1. Masonry accessories including the following:

\*\* NOTE TO SPECIFIER \*\* Product names for applications listed below are MortarNet with Insect Barrier, HouseNet with Insect Barrier, WeepVent, CellVent, BlockFlash, BlockNet, WallNet, DriPlane, TotalFlash, CompleteFlash, and LathNet by MortarNet Solutions. Delete types not required.

* + - 1. Open mesh to collect and suspend mortar droppings in commercial masonry cavity walls, with insect barrier. (MortarNet with Insect Barrier is recommended)
      2. Open mesh to collect and suspend mortar droppings in residential masonry cavity walls with insect barrier. (HouseNet with Insect Barrier is recommended)
      3. Weep holes for masonry walls. (WeepVent) (CellVent)
      4. Flashing system for single-wythe concrete masonry walls designed with no visible drip edge. (BlockFlash)
      5. Flashing system for single-wythe concrete masonry walls designed with a visible stainless steel drip edge. (BlockNet)
      6. Continuous drainage plane behind rainscreen systems and stone and stucco veneers. (WallNet)
      7. Flashing and drainage system for masonry cavity walls. (TotalFlash)
      8. One-piece preformed corner boots and end dams for flashing systems in masonry cavity walls. (CompleteFlash)
      9. Metal lath and plastic mesh drainage system. (LathNet).
      10. Factory-assembled combination of mesh drainage plane and metal lath. (Lath Net).
      11. Continuous drainage plane mesh material (DriPlane).
  1. RELATED SECTIONS

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

* + 1. Section 04 05 00 - Common Work Results for Masonry.
    2. Section 04 20 00 - Unit Masonry.
    3. Section 04 40 00 - Stone Assemblies.
    4. Section 04 40 00 - Stone Assemblies.
    5. Section 07 19 13 - Acrylic Water Repellents.
    6. Section 07 25 00 - WeatherBarriers.
    7. Section 07 60 00 - Flashing and Sheet Metal.
  1. 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, handling requirements and recommendations.
     3. Verification Samples: For each MortarNet, WeepVent, and CellVent specified, two samples representing actual product, color, and configuration.
  2. QUALITY ASSURANCE
     1. Installer Qualifications: Minimum 2 years experience with similar masonry installations.
  3. DELIVERY, STORAGE, AND HANDLING
     1. Store products in manufacturer's unopened packaging until ready for installation.
     2. Protect products from exposure to direct sunlight.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Mortar Net Solutions®, which is located at:6575 Daniel Burnham Dr., Suite GPortage, IN 46368Toll Free Tel: 800-664-6638Fax: 219-787-5088Email: [request info (abrooks@mortarnet.com)](https://arcat.com/rfi?action=email&company=Mortar%252BNet%252BSolutions%25C2%25AE&message=RE%253A%2520Spec%2520Question%2520(04090mor)%253A%2520&coid=34325&spec=04090mor&rep=&fax=219-787-5088);Web: <http://www.mortarnet.com>
      2. Substitutions: No substitutions for other manufacturer's products.
      3. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
   2. MATERIALS

\*\* NOTE TO SPECIFIER \*\* MortarNet with Insect Barrier recommended by manufacturer for commercial construction; HouseNet with Insect Barrier recommended for residential construction. Delete paragraphs and associated text for products not required.

* + 1. Open mesh to collect and suspend mortar droppings in commercial masonry cavity walls: MortarNet with Insect Barrier as manufactured by Mortar Net Solutions.
       1. Description: 90 percent open weave mesh in trapezoidal configuration connected by continuous bottom strip 3 inches high. The insect barrier fabric is attached to one face of the trapezoidal MortarNet material.

\*\* NOTE TO SPECIFIER \*\* Delete two of three following paragraphs. Manufacturer recommends that cavity should be no more than 1/4 inch wider than 1 inch and 2 inch material and 0.4 inch material should touch both the outer wythe and the inner wall of masonry cavity. Material is compressible to allow for variation in wall cavity widths.

* + - 1. Size: MortarNet with Insect Barrier 0.4 inches thick by 10 inches high, partial recycled nylon material. Materials shall touch both the outer wythe and the inner wall of masonry cavity.
      2. Size: MortarNet with Insect Barrier 1 inch thick by 10 inches high, partial recycled nylon material.
      3. Size: MortarNet with Insect Barrier 2 inches thick by 10 inches high, partial recycled polyester material.
    1. Open mesh to collect and suspend mortar droppings in residential masonry cavity walls: HouseNet with Insect Barrier as manufactured by Mortar Net Solutions, remove recycled 90 percent open weave mesh, dovetail configuration with continuous bottom strip 2 inches high.
       1. Description: 90 percent open weave mesh in trapezoidal configuration connected by continuous bottom strip 2 inches high.

\*\* NOTE TO SPECIFIER \*\* Delete two of three following paragraphs. Manufacturer recommends that cavity should be no more than 1/4 inch wider than 1 inch and 2 inch material and 0.4 inch material should touch both the outer wythe and the inner wall of masonry cavity. Material is compressible to allow for variation in wall cavity widths.

* + - 1. Size: 0.4 inches thick by 7-1/2 inches high, polyester, with recycled content.
      2. Size: 1 inch thick by 7-1/2 inches high, polyester, with recycled content.
      3. Size: 2 inches thick by 7-1/2 inches high, polyester, with recycled content.

\*\* NOTE TO SPECIFIER \*\* Delete if WeepVent not required.

* + 1. Weep Vents for Masonry Walls: WeepVent as manufactured by Mortar Net Solutions.
       1. Description: 90 percent open weave mesh, UV-resistant recycled polyester; rectangular shape.
       2. Standard Size: 1/2 inches thick by 3-1/2 inches high by 2-5/8 inches long.

\*\* NOTE TO SPECIFIER \*\* Special size available. Delete size not required.

* + - 1. Special Size: 1/2 inch thick x 2 inches high x 2 inches long.
      2. Special Size: 1/2 inch thick x 3-1/2 inches high x 3-1/2 inches long.
      3. Special Size: 1/2 inch thick x 3-1/2 inches high x 7-5/8 inches long.
      4. Special Size: 1/2 inch thick x 4 inches high x 2-1/2 inches long.
      5. Special Size: 1/2 inch thick x 4 inches high x 4 inches long.

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

* + - 1. Color: Match mortar color with selection from manufacturer's standard colors.
      2. Color: White.
      3. Color: Brown.
      4. Color: Tan.
      5. Color: Gray.
      6. Color: Red.
      7. Color: Almond.
      8. Color: Black.

\*\* NOTE TO SPECIFIER \*\* Delete if CellVent not required.

* + 1. Weep Vents For Masonry Walls: CellVent as manufactured by Mortar Net Solutions, UV stable polyester, rectangular in shape.
       1. Description: Cells with cross sections of approximately 5/64 (0.080) inches by 1/8 (0.0120 inches) by the full length of the vent formed by a multilayered structure of thin polypropylene sheets.

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

* + - 1. Standard Size: 3/8 inches thick by 2-1/2 inches high by 3-3/8 inches long.
      2. Jumbo Size: 3/8 inches thick by 3-1/2 inches high by 3-3/8 inches long.

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

* + - 1. Color: Match mortar color with selection from manufacturer's standard colors.
      2. Color: White.
      3. Color: Brown.
      4. Color: Tan.
      5. Color: Gray.
      6. Color: Black.
      7. Color: Cocoa.
      8. Color: Clear.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs. BlockFlash recommended by manufacturer for drainage of full depth of block and no visible drip edge; BlockNet for drainage of exterior face and cell of block with visible stainless steel drip edge.

* + 1. Flashing system for single-wythe concrete masonry walls with no visible drip edge: BlockFlash as manufactured by Mortar Net Solutions, high-density polypropylene composition molded into a flashing pan with 5/16 inch high perimeter flanges, integral weep spout and insect guard.

\*\* NOTE TO SPECIFIER \*\* Delete two of three following paragraphs. BlockFlash is available for 8-inches, 10 inches and 12 inches wide CMU. Product name indicates the width of the CMU the product is designed for. Delete size not required.

* + - 1. BlockFlash 8 Inch; 5-5/8 inches long, 6 3/4 inches wide.
      2. BlockFlash 10 Inch; 7-5/8 inches long, 6 3/4 inches wide.
      3. BlockFlash 12 Inch; 9-5/8 inches long, 6 3/4 inches wide.

\*\* NOTE TO SPECIFIER \*\* Delete if BlockNet not required.

* + 1. Flashing system for single-wythe concrete masonry walls with visible stainless steel drip edge: BlockNet flashing system as manufactured by Mortar Net Solutions.
       1. Drainage Strip: 28 gauge stainless steel, 3 3/8 inches wide by 72 inches long (66 inches net usable) with formed drip on the face edge and drainage mesh factory attached.
       2. Vertical drainage mesh: 7 inch wide by 7 inch long by 1/8 inch thick polyester mesh.

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

* + 1. Continuous drainage plane: DriPlane as manufactured by Mortar Net Solutions.
       1. Material: 90 percent entangled polyester mesh.

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

* + - 1. Thickness: 1/4 inch.
      2. Thickness: 3/4 inch.

\*\* NOTE TO SPECIFIER \*\* Continuous drainage plane behind rainscreen systems and stone and stucco veneers. WallNet is a drainage mesh that allows moisture to easily flow to the weeps, promotes drying to help prevent mold growth and moisture damage, and can help extend the life of rainscreen siding materials by helping them dry from the back. Delete if not required.

* + 1. Continuous drainage plane: WallNet as manufactured by Mortar Net Solutions.
       1. Material: 90 percent open weave porous polyester mesh.

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

* + - 1. Thickness: 1/4 inch.
      2. Thickness: 0.4 inch (10 mm).
      3. Thickness: 1 inch.
      4. Thickness: 2 inches.

\*\* NOTE TO SPECIFIER \*\* Weep holes must be used with WallNet to allow effective moisture drainage and wall drying. WeepVent and CellVent by Mortar Net Solutions can keep weep holes open and prevent insects from entering the cavity through the weeps. Delete if weep holes are part of the veneer system specified in another section. Delete weep if not required.

* + - 1. Weeps: WeepVent by Mortar Net Solutions as specified.
      2. Weeps: CellVent by Mortar Net Solutions as specified.

\*\* NOTE TO SPECIFIER \*\* Continuous drainage plane behind rainscreen systems and stone and stucco veneers. LathNet is a drainage mesh that allows moisture to easily flow to the weeps, promotes drying to help prevent mold growth and moisture damage, and can help extend the life of adhered veneer masonry materials by helping them dry from the back. Delete if not required.

* + 1. Expanded Metal Lath with Attached Drainage Mesh:
       1. Basis-of-Design Product: Subject to compliance with requirements, provide Mortar Net Solutions; LathNet or comparable product by Clark Dietrich.

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

* + - 1. Diamond-Mesh Lath: 2.5 lb/sq. yd. (1.3 kg/sq. m), self-furring, diamond-mesh lath complying with ASTM C 847, with 1/4 inch (6.4 mm) high loft non-woven attached drainage mesh. Fabricate from structural-quality, zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G60 (Z180).
      2. Diamond-Mesh Lath: 3.4 lb/sq. yd., self-furring, diamond-mesh lath complying with ASTM C 847, with 1/4 inch (6.4 mm) high loft non-woven attached drainage mesh. Fabricate from structural-quality, zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G60 (Z180).

\*\* NOTE TO SPECIFIER \*\* Mortar Net Solutions' TotalFlash Masonry Cavity Wall Drainage Solution is designed to replace traditional flashing systems. Custom configurations for over wall openings are available. Mortar Net Solutions offers ethylene propylene diene monomer (EPDM), rubberized asphalt, and thermoplastic polyolefin membranes. Delete if TotalFlash not required.

* + 1. Flashing and drainage system for masonry cavity walls. Available in 5 1/2 foot (5 feet net) factory-assembled panels that include flashing membrane, drip edge, drainage mesh, weep tabs and termination bar, or in 50 foot-long rolls with drainage mesh and weep tabs attached to the membrane. (drip edge, termination bar supplied separately for rolls). TotalFlash as manufactured by Mortar Net Solutions System consists of the following components:
       1. Flashing Membrane Materials and Sizes:

\*\* NOTE TO SPECIFIER \*\* Delete flashing membrane materials not required.

* + - * 1. Material: 45 mil elastomeric ethylene propylene diene monomer (EPDM).
        2. Material: 40 mil self-adhesive rubberized asphalt (RA) membrane.
        3. Material: 40 mil Thermoplastic vinyl (PVC) membrane.
        4. Material: 40 mil Thermoplastic polyolefin (TPO) membrane.

\*\* NOTE TO SPECIFIER \*\* Delete panel sizes not required.

* + - * 1. Standard Size: 18 inches by 66 inches.
        2. Available Size: 12 inches by 66 inches.
        3. Available Size: 24 inches by 66 inches.
      1. Mortar Collection Mesh and Weep Tabs: Drainage/Weep System; 1/4 inch thick, 10 inches high, 60 inches long. Woven mortar collection mesh and integrated mesh weep tabs designed to allow moisture to migrate to the exterior of the building; mesh factory-adhered to the flashing membrane.

\*\* NOTE TO SPECIFIER \*\* Delete drip edge if not required.

* + - 1. Drip Edge: 3 inch width, 5 feet long with 3/8 inch hemmed, formed drip edge designed to allow moisture to pass from the wall.

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

* + - * 1. Material: 28 gauge (0.014 inches) Type 304 stainless steel.

\*\* NOTE TO SPECIFIER \*\* Butyl sealant specially formulated to be used as part of the TotalFlash Cavity Wall Drainage Solution or may be used on any project where a butyl sealant is appropriate. Provides excellent adhesion and sealing between aluminum, steel, wood, vinyl, mortar, stone, plastics and TPO. Delete if not required.

* + - 1. Sealant: BTL-1 butyl sealant (single component, moisture cure), for lapping TotalFlash Sections, as approved by manufacturer. May be used with EPDM and TPO. Not for use in expansion, control or general construction joints.

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

* + - 1. Termination Bar: Designed to fasten top of flashing membrane to substrate; manufactured from high-strength corrosion-resistant PVC, UV-stabilized, 5 feet long, pre-drilled holes 6 inches on-center for attachment.

\*\* NOTE TO SPECIFIER \*\* Delete termination bar not required.

* + - 1. Termination Bar: Designed to fasten top of flashing membrane to substrate. Manufactured from corrosion-resistant stainless steel 1-1/4 inches wide x 16 gauge, 100% recyclable, 5 feet long, pre-drilled holes 6 inches on center for attachment.
      2. Termination Bar: Designed to fasten top of flashing membrane to substrate. Manufactured from corrosion-resistant stainless steel 1-1/4 inches wide x 16 gauge thick, 1/4 inch lip, pre-drilled holes 6 inches on-center for attachment.
      3. Screws: Self-tapping hex head screws with watertight neoprene self-sealing washer, #14 by 2 inches. Works with concrete, concrete block, wood and steel studs.

\*\* NOTE TO SPECIFIER \*\* For use with any flashing system. Delete if not required.

* + 1. One-Piece Preformed 14 inches High Corner Boots and End Dams. CompleteFlash corner boots and end dams as manufactured by Mortar Net Solutions.

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

* + - 1. Material: Gray thermoplastic polyolefin (TPO).
      2. Material: Black synthetic rubber/polypropylene blend (SR).

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

* + - 1. Size: 14 inches high preformed inside and outside corner boots.
      2. Size: 3 inches high, 4 inches long and 6 inches wide right and left end dams.
      3. Size: 3 inches high, 4 inches long and 4 inches wide universal end dams.

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

* + - 1. Corner: Stainless steel 90 degree preformed outside corner.
      2. Corner: Stainless steel adjustable corner.

\*\* NOTE TO SPECIFIER \*\* Mortar Net Solutions has developed a new patented solution that combines drainage mesh and metal lath into a single system that streamlines installation and reduces wall penetrations. This product will come to market through partnership with industry leader ClarkDietrich Building Systems. Mortar Net worked closely with experienced, professional masons throughout the system's development to ensure it would perform in the field. Good practice recognizes the need for drainage and ventilation in adhered masonry veneer installations and Mortar Net Solutions has applied its decades of experience in moisture management to create a highly reliable, factory assembled system. Delete if not required.

* + 1. Metal Lath and Rainscreen Drainage System:
       1. Product: LathNet as manufactured by Mortar Net Solutions.
       2. Application: Use with stucco and adhered masonry veneers to provide ventilation and drainage behind the veneers.
       3. Construction: A combination of polyester high-loft, non-woven mesh drainage plane and G-60 galvanized expanded steel mesh lath. The two materials are factory assembled into a single component.
       4. Lath:

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

* + - * 1. Type: 2.5 lb., self-furring, dimpled, diamond mesh G-60 galvanized expanded steel lath.
        2. Type: 3.4 lb., self-furring, dimpled, diamond mesh G-60 galvanized expanded steel lath.
        3. Size: Steel mesh dimensions (nominal): 27 inches wide x 97 inches long.
        4. Compliance: Conforms to ASTM C847 - Standard Specification For Metal Lath.

\*\* NOTE TO SPECIFIER \*\* Custom drainage mesh configurations available. Delete drainage mesh thickness not required.

* + - 1. Drainage Mesh: 1/4 inch Drainage Mesh: 90% open polyester high loft non-woven. 1/4 inch thick x 25-1/2 inches wide +/- 1/4 inch x 95-1/2 inches long +/- 1/2 inch.
      2. Drainage Mesh: 0.4 inch (10 mm) Drainage Mesh: 90% open polyester high loft non-woven. 0.40 inch (10mm) thick x 25 1/2 inches wide +/- 1/4 inch x 95-1/2 inches long +/- 1/2 inch.

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 owner's agent and architect of unsatisfactory preparation before proceeding.
   2. INSTALLATION

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

* + 1. Open mesh to collect and suspend mortar droppings in commercial masonry cavity walls: MortarNet with Insect Barrier as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions and as follows:
       1. Verify installation of flashing and completion of first two courses of masonry.
       2. Extend flashing from the bottom of the MortarNet to at least 6 inches above the top of the MortarNet to prevent mortar bridging between the outer wythe and inner wall.
       3. Remove mortar droppings and debris from flashing and weep vents.
       4. Install one continuous row of MortarNet at base of wall in cavity and over all wall openings directly on flashing, with dovetail profile facing upward. For wall cavities that exceed 11 feet in height, place an additional continuous trapezoidal strip on wall reinforcing anchors/ties at every 9 feet to 11 feet of wall height.
       5. Butt ends together. Compress slightly if necessary.
       6. Face Insect Barrier toward the outside of the building.

\*\* NOTE TO SPECIFIER \*\* Delete if HouseNet with Insect Barrier not required.

* + 1. Open mesh to collect and suspend mortar droppings in residential masonry cavity walls: HouseNet with Insect Barrier as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions and as follows:
       1. Extend flashing from the bottom of the HouseNet to at least 6 inches above the top of the HouseNet to prevent mortar bridging between the outer wythe and inner wall.
       2. Verify installation of flashing and completion of first two courses of masonry.
       3. Remove mortar droppings and debris from flashing and weep vents.
       4. Install one continuous row of HouseNet at base of wall in cavity and over all wall openings directly on flashing, with dovetail profile facing upward. For wall cavities that exceed 9 feet in height, place an additional continuous trapezoidal strip on wall reinforcing anchors and ties at every 9 feet of wall height.
       5. Butt ends together. Compress slightly if necessary.
       6. Place insect barrier to the outside of the building.

\*\* NOTE TO SPECIFIER \*\* Delete if WeepVent not required.

* + 1. Weep vents for masonry walls: WeepVent as manufactured by Mortar Net Solutions: Install in strict accordance with manufacturer's instructions and as follows:
       1. Place WeepVent in open head joints at the flashing level.
       2. Insert a WeepVent at a maximum of 24 inches on center in open head joints.
       3. Clean flashing and weep holes free of mortar droppings and debris.
       4. Align exterior face of WeepVent with exterior plane of mortar.

\*\* NOTE TO SPECIFIER \*\* Delete if CellVent not required.

* + 1. Weep vents for masonry walls: CellVent as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions and as follows:
       1. Place CellVent in an open head joint at the flashing level.
       2. Insert a CellVent at a maximum of 24 inches on center in open head joints.
       3. Clean flashing and weep vents free of mortar droppings and debris.
       4. Align exterior face of insert with exterior plane of mortar.

\*\* NOTE TO SPECIFIER \*\* Delete if BlockFlash not required.

* + 1. Flashing system for single-wythe concrete masonry walls designed without a visible drip edge: BlockFlash as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions and as follows:
       1. Install on top of foundation or on top of first concrete masonry unit course closest to foundation, not less than 4 inches above finish grade but below interior floor. Also applicable over wall openings, bond beams, structural steel members and in parapet walls.
       2. Install with weep spouts flush with the face of the foundation or concrete masonry unit course. Use the reference lip on the bottom of the weep spout to properly position the pan on the foundation or concrete masonry units.
       3. Install with standard mortar spreading techniques with mortar lapped, first over the inner and second over the outer flanges of the BlockFlash units.
       4. Install included 7 inch by 16 inch mesh elements in concrete masonry unit core cavity immediately above each BlockFlash location with the mesh aligned against the outside and inside faces of the block and with each mesh element touching the BlockFlash pan below it to prevent clogging from mortar and grout droppings.
       5. At grouted vertical cells, remove radius bridge piece at the edge of the grouted cell and cross web mortar to prevent grout spill on to the BlockFlash pan.
       6. Remove obstructions from weep spouts, but do not remove the factory-installed insect guards.

\*\* NOTE TO SPECIFIER \*\* Delete if BlockNet not required.

* + 1. Flashing system for single-wythe concrete masonry walls designed with a visible, continuous stainless steel drip edge: BlockNet as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions and as follows:
       1. Install mesh-side up, with drip edge in alignment with edge of foundation or first concrete masonry unit course closest to foundation, but below interior floor. Applicable over wall openings, bond beams, structural steel members and in parapet walls.
       2. Apply commercial sealant to unmeshed end section of strip under the BlockNet and on the masonry surface parallel with the face of the wall, align and butt edges of adjacent strip.
       3. Form continuous drainage strip drainage system along entire perimeter of wall.
       4. At concrete masonry unit (CMU) course directly above the BlockNet, install one 7 inch by 7 inch vertical mesh sleeve in each core. Install against inside face of outside shell to form U-shape sleeve, with the mesh touching the BlockNet drainage strip below.

\*\* NOTE TO SPECIFIER \*\* Delete if WallNet if not required.

* + 1. Continuous drainage plane: WallNet as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions.
       1. Install drainage plane after windows and doors are installed. Begin at the base of the wall and unroll and fasten using staples (minimum 1/2 inch) wrap cap screws or nails at a spacing of 1 anchor per 3 sq. ft. of wall area. Install in a shingle pattern, stagger vertical seams.

\*\* NOTE TO SPECIFIER \*\* Weep holes must be used with WallNet and DriPlane to allow effective moisture drainage and wall drying. WeepVent and CellVent by Mortar Net Solutions can keep weep holes open and prevent insects from entering the cavity through the weeps. Delete if weep holes are part of the veneer system specified in another section.

* + - 1. Install weep vents.

\*\* NOTE TO SPECIFIER \*\* Delete if DriPlane if not required.

* + 1. Continuous drainage plane: A continuous drainage plane between the structural wall and exterior veneers such as adhered masonry, sidings, and other forms of absorptive cladding as well as most types of rainscreen systems, DriPlane as manufactured by Mortar Net Solutions.
       1. Install drainage plane after windows and doors are installed. Begin at the base of the wall and unroll and fasten using staples (minimum 1/2 inch) wrap cap screws or nails at a spacing of 1 anchor per 3 sq. ft. of wall area. Install in a shingle pattern, stagger vertical seams.

\*\* NOTE TO SPECIFIER \*\* Weep holes must be used with WallNet and DriPlane to allow effective moisture drainage and wall drying. WeepVent and CellVent by Mortar Net Solutions can keep weep holes open and prevent insects from entering the cavity through the weeps. Delete if weep holes are part of the veneer system specified in another section.

* + - 1. Install weep vents.
    1. Flashing and drainage system for masonry cavity walls: TotalFlash as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions.
       1. Install in proper relationship to adjacent construction.
       2. Install using adhesive applied horizontally at termination bar and drip edge, and vertically at ends of panels.
       3. Apply sealant to the top of termination bars in a continuous bead.

\*\* NOTE TO SPECIFIER \*\* For projects using rigid insulation that is also the air barrier and is attached directly to the substrate, TotalFlash is attached to the surface of the insulation.

* + - 1. Rigid insulation may be installed over or behind TotalFlash.

\*\* NOTE TO SPECIFIER \*\* Excellent for use with any flashing system, CompleteFlash is designed for use with the TotalFlash Cavity Wall Drainage Solution. Delete if not required.

* + 1. One-Piece preformed 14 Inch High Corner Boots and End Dams: CompleteFlash as manufactured by Mortar Net Solutions. Install in strict accordance with manufacturer's instructions.

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

* + 1. Metal Lath and Rainscreen Drainage System Installation:
       1. LathNet is installed with the mesh drainage mat against the structural wall and the metal lath toward the outside of the building. Start from the lower left of the wall and install LathNet from left to right (as you face the wall) and bottom to top, with the longer side running horizontally.
       2. On one long edge and one short edge of each LathNet section, the mesh is held back from the edge of the metal mesh 1 to 1-1/2 inches. On the first row of LathNet at the bottom of the wall, cut off the metal lath that extends past the mesh on the bottom edge only so the mesh is flush with the lath. This allows the mesh drainage plane to extend all the way to the bottom of the wall.
       3. There shall be no gaps between the edges of the drainage mesh so the mesh forms a continuous drainage plane behind the lath everywhere on the wall. Stagger all vertical joints.
       4. If butting LathNet against a solid wall component such as a door jamb, cut the metal lath so the mesh is flush with the lath to allow the drainage plane to extend all the way to the wall component.
       5. When installing LathNet on an inside or outside corner, overlap the corner by a minimum of 12 inches and fasten the end of the panel to a stud or the nearest structural member. When building conditions make it necessary to install a new LathNet section to the left of a previously installed section, leave at least 12 inches of the previously installed section unfastened until the new section is properly placed to make it easy to butt the mesh drainage planes together and to form the proper lath overlap.
       6. To fasten LathNet to a masonry substrate, use corrosion-resistant fasteners or hardened concrete nails.
       7. When fastening LathNet to a steel or wood stud substrate, the LathNet sections must overlap at a stud. Anchor all fasteners in a stud.
       8. For all types of substrates, install fasteners so they penetrate and secure both sections of LathNet where they overlap.
  1. PROTECTION
     1. Protect installed products from damage until completion of project.
     2. Repair or replace damaged products before covering with construction.

END OF SECTION