

## SECTION 04090

### MASONRY ACCESSORIES

For best results, display hidden notes to specifier.

**\*\* 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:

2926 Chester Ave  
Cleveland, OH 44114  
Tel: 440-605-1020  
Fax: 440-605-1120  
Email: [info@mortarnet.com](mailto:info@mortarnet.com)  
Web: [www.mortarnet.com](http://www.mortarnet.com) or [www.keenebuilding.com](http://www.keenebuilding.com)

MortarNet with Insect Barrier is the industry-leading mortar dropping collection device. The trapezoidal shaped MortarNet with Insect Barrer 0.4" and 1" is made out of a structured strand nylon mesh with attached polyester woven fabric on one side. The 1.5" and 2" is made out of a structured strand nylon mesh in combination with a polyester mesh which is used as the Insect Barrier.

MortarNet 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.

MortarNet'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 WallDefender and 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 stainless steel corners & end dams; the MortarFlash line of flashing membranes; the WallNet continuous drainage plane for rainscreen systems and adhered veneer, stone and stucco veneers; the LathNet metal lath and rainscreen drainage system; and BlockFlash and BlockNet flashing solutions for single wythe concrete block construction.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

###### A. Masonry accessories including the following:

**\*\* NOTE TO SPECIFIER \*\*** Product names for applications listed below are MortarNet with Insect Barrier, WallDefender, WeepVent, CellVent, by Mortar Net 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)
2. Open mesh to collect and suspend mortar droppings in commercial masonry cavity walls with no insect barrier. (WallDefender)
3. Weep holes for masonry walls. (WeepVent) (CellVent)

## 1.2 RELATED SECTIONS

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

- A. Section 04050 - Basic Masonry Materials and Methods: Additional masonry materials.
- B. Section 04200 - Masonry Units: Masonry installation and coordination requirements.
- C. Section 04400 - Stone: Stone installation and coordination requirements.
- D. Section 04800 - Masonry Assemblies: Additional masonry assembly requirements.
- E. Section 07190 - Water Repellents: Masonry wall coatings.
- F. Section 07200 - Thermal Protection: Building Insulation.
- G. Section 07600 - Flashing and Sheet Metal: Metal counter flashing installation and coordination requirements.

## 1.3 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage, handling requirements and recommendations.
- C. Verification Samples: For each Mortar Net WeepVent or CellVent specified, two samples representing actual product, color, and configuration.

## 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 2 years experience with similar masonry installations.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Protect products from exposure to direct sunlight.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Mortar Net Solutions – Masonry Division of Keene Building Products; 2926 Chester Ave. Cleveland, OH 44114. Tel: 440-605-1020. Fax: 440-605-1120. Email: info@mortarnet.com. Web: www.mortarnet.com or www.keenebuilding.com

**\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs; coordinate with requirements of Division 1 section on product options and substitutions. Manufacturer allows substitution of WallDefender for MortarNet with Insect Barrier and use of either WeepVent or CellVent.**

- B. Substitutions: WallDefender may be substituted for MortarNet with Insect Barrier. Either CellVent or WeepVent may be used.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

## 2.2 MATERIALS

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

- A. 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 three of the four 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.

2. MortarNet with Insect Barrier 0.4 inches thick by 10 inches high, partial recycled nylon material, structured strand mesh with attached polyester fabric.
3. MortarNet with Insect Barrier 1 inch thick by 10 inches high, partial recycled nylon material, structured strand mesh with attached polyester fabric.
4. MortarNet with Insect Barrier 1.5 inches thick by 10 inches high, partial recycled polyester and nylon material, structured strand mesh bonded to polyester mesh.
5. MortarNet with Insect Barrier 2 inches thick by 10 inches high, partial recycled polyester and nylon material, structured strand mesh bonded to polyester mesh.

- B. Open mesh to collect and suspend mortar droppings in commercial masonry cavity walls: WallDefender as manufactured by Mortar Net Solutions.
1. Description: 90 percent open weave mesh in trapezoidal configuration connected by continuous bottom strip 3 inches high, no insect barrier.

**\*\* NOTE TO SPECIFIER \*\*** Delete three of four following paragraphs. Manufacturer recommends that cavity should be no more than 1/4 inch wider than 1 inch and 2 inch material. Material is compressible to allow for variation in wall cavity widths.

1. 0.4 inch thick by 10 inches high, partial recycled nylon material.
2. 1 inch thick by 10 inches high, partial recycled nylon material.
3. 1.5 inch thick by 10 inches high, partial recycled nylon material.
4. 2 inches thick by 10 inches high, partial recycled nylon material.

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

- C. Weep vents for masonry walls: WeepVent as manufactured by Mortar Net Solutions.
1. Description: 90 percent open weave mesh, recycled polyester; rectangular shape
  2. Standard size: 3 1/2 inches high by 1/2 inches thick by 2 5/8 inches long
  3. Other sizes available

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

1. Match mortar color with selection from manufacturer's standard colors.
2. Available colors: White, Brown, Tan, Gray, Red, Almond, Black, Pebble

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

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

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

1. Color: Match mortar color with selection from manufacturer's standard colors.
2. Available colors: White, Brown, Tan, Gray, Black, Cocoa, Clear

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify owner's agent and architect of unsatisfactory preparation before proceeding.

### 3.2 INSTALLATION

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

- A. 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 WallDefender not required. No insect barrier provided with WallDefender.**

- B. Open mesh to collect and suspend mortar droppings in commercial masonry cavity walls: WallDefender 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 WallDefender to at least 6 inches above the top of the WallDefender 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 WallDefender 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.

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

- C. 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.
  - 5. For head joints taller than height of mesh insert, use custom manufactured product to match head joint.

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

- D. 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.
5. For head joints taller than height of mesh insert, use custom manufactured product to match head joint.

### 3.3 PROTECTION

- A. Protect installed products from damage until completion of project.
- B. Repair or replace damaged products before covering with construction.

END OF SECTION