



## SECTION 04 20 00

### MASONRY ACCESSORIES – CAVITY MORTAR CONTROL

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Full Height Airspace Maintenance and Drainage Material.

##### 1.2 RELATED SECTIONS

- A. Section 04 20 00 – Clay Unit Masonry: Cavity wall construction of brick veneer.

##### 1.3 REFERENCES

- A. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

##### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. 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.

##### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 2 years production of similar products.
- B. Installer Qualifications: Minimum 2 years experience as a masonry installer.

##### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.

#### PART 2 PRODUCTS

##### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Keene Building Products; PO Box 241353, Mayfield Heights, Ohio 44124. Toll Free Tel: (877) 514-5336. Tel: (440) 605-1020. Fax: (440) 605-1120. Email: [info@keeneBuilding.com](mailto:info@keeneBuilding.com). Web: <http://www.KeeneBuilding.com>.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 25 00.

## 2.2 DRAINAGE MAT

- A. Masonry Drainage Mat: Full-Height Airspace Maintenance and Cavity Mortar Control.
- B. Product Description: CAV-AIR-ATOR as manufactured by Keene Building Products.

THE CAV-AIR-ATOR IS A FULL WALL DRAINAGE AND VENTILATION MAT FOR FULL BRICK OR STONE MASONRY WALLS. IT PREVENTS MORTAR FROM ENTERING THE CAVITY, CLINGING TO WALL TIES, OR BLOCKING WEEP HOLES. THE CAV-AIR-ATOR IS MADE UP OF AN EXTRUDED POLYMER MATRIX OF ENTANGLED MONOFILAMENTS. A NON-WOVEN, LIGHTWEIGHT, BREATHABLE FABRIC IS HEAT LAMINATED ON ONE SIDE OF THE PRODUCT TO PREVENT MORTAR FROM ENTERING THE CAVITY. IT PROVIDES OVER 96.5% OF OPEN AIRSPACE IN THE MASONRY CAVITY FOR OPTIMUM VENTILATION. THE EXTREMELY HIGH AIRFLOW AND LACK OF MORTAR INTRUSION ALLOWS FOR EFFICIENT LIQUID MOISTURE DRAINAGE AND VENTILATION OF THE CAVITY IN ALL DIRECTIONS. IT IS INSTALLED THE FULL HEIGHT OF THE MASONRY WALL AND IS DESIGNED TO REST BETWEEN THE BRICK TIES. THE CAV-AIR-ATOR COMES IN 4 FOOT LONG PIECES THAT ARE AVAILABLE IN 16 INCH OR 24 INCH HEIGHTS.

- 1. Physical Characteristics: Three-dimensional mat made up of an extruded polymer matrix of entangled monofilaments. Non-woven, breathable fabric heat laminated on one side of the product.
  - a. 0.40" / 0.75" / 1.0" / 1.75" thick.
  - b. 4.0' long.
  - c. 16" / 24" high.
- 2. Performance:
  - a. Drainage of moisture and ventilation in masonry cavity.
- 3. Material: UV stabilized polypropylene.
  - a. Class-A flame spread per ASTM E84.
  - b. Hydrophobic compound.
  - c. Resistant to chemicals.
  - d. Does not support mold growth.

## 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 Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 DRAINAGE MAT INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Inspection of Wall Conditions: Ensure that the wall is free from structural defects, that any membranes or flashing are properly installed and that the final system will have a path for moisture to escape from the wall.
- C. Installation for Brick:
  - 1. Install first course of brick. Remove any mortar or debris from the cavity.
  - 2. Place the drainage mat in the cavity with the filter fabric facing out.
  - 3. The product does not require any fasteners. It will rest on the brick ties and be friction fit in the cavity.
  - 4. Install subsequent courses of brick, reaching the next brick tie.
  - 5. Repeat this process continuously throughout the full-height of the masonry cavity wall.
  - 6. NOTE: At the bottom of the wall and above all through wall flashings, use multiple layers if there is open airspace between the drainage mat and the brick veneer.

END OF SECTION