



SECTION 04 05 25

MASONRY ACCESSORIES - DRAINAGE MAT

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Wall moisture/vapor drainage mat.

1.2 RELATED SECTIONS

- A. Section 04 20 00 – Clay Unit Masonry: Cavity wall construction of brick veneer.
- B. Section 04 43 00 – Stone Masonry: Wall construction of stone 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. 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

**** NOTE TO SPECIFIER **** DRIWALL RAINSCREEN 075-1 IS A NOMINAL 0.75 INCH (19MM) THICK, RANDOMLY ORIENTED GEOMETRIC PATTERNED DRAINAGE AND VENTILATION MAT. IT IS DESIGNED TO ELIMINATE MOISTURE AND MOISTURE VAPOR IN BRICK OR STONE MASONRY APPLICATIONS. DRIWALL RAINSCREEN IS PRODUCED FROM AN EXTRUDED POLYMER MATRIX OF ENTANGLED MONOFILAMENTS. THE THREE-DIMENSIONAL MAT IS HEAT LAMINATED TO A NON-WOVEN LIGHTWEIGHT, BREATHABLE FABRIC TO PROVIDE A SEPARATION FROM CEMENTATIONS VENEERS. THE MONOFILAMENTS ARE HEAT WELDED AT THE JUNCTIONS TO FORM A RESILIENT STRUCTURE THAT SPACES THE MASONRY VENEER AWAY FROM THE INNER SHEATHING. THE PRODUCT IS USEFUL IN CAVITY WALL DESIGNS AND RAINSCREEN SYSTEMS WHERE AN AIR SPACE IS NEEDED FOR DRAINAGE AND VENTILATION. WHEN DRIWALL RAINSCREEN IS USED, NO MORTAR OR OTHER DEBRIS CAN ENTER THE CAVITY ASSURING PROPER DRAINAGE AND VENTILATION.

- A. Drainage Mat: Randomly oriented geometric patterned drainage and ventilation mat designed to eliminate moisture and moisture vapor in wall applications.

**** NOTE TO SPECIFIER **** PRODUCT SELECTION:

- FOR NATURAL STONE USE ANY DRIWALL RAINSCREEN PRODUCT
- FOR BRICK USE ANY DRIWALL RAINSCREEN PRODUCT

- B. Product: Driwall Rainscreen 075-1 as manufactured by Keene Building Products.

1. Physical Characteristics: Three-dimensional mat heat laminated to a non-woven lightweight, vapor permeable fabric. The monofilament mat is heat welded at the junctions to form a resilient structure that isolates veneer from the backup.
 - a. 0.75 inches (19 mm) thick.
 - b. 18.6 oz/sq. yd. (631 g/sq m) total weight.
 - c. 48 inches (122 cm) wide.
 - d. 50 feet (15.2 m) roll length.
2. Performance:
 - a. Drainage of moisture and ventilation between veneer and back-up support.
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.

**** NOTE TO SPECIFIER **** DELETE APPLICATIONS NOT REQUIRED FOR PROJECT.

- C. Application:

1. Provide at brick veneer and as indicated or required.
2. Provide at stone and as indicated or required.

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 and Weather Barrier/Building Wrap: 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.

** NOTE TO SPECIFIER ** DELETE APPLICATIONS NOT REQUIRED FOR PROJECT.

- C. Installation for Natural Stone:
 1. Install building paper or house wrap and flashing to manufactures' recommendations.
 2. Install only as much drainage mat as will be covered by the stone each day. Wall ties can be installed through the drainage mat material.
 3. Place drainage mat horizontally against exterior wall fabric side out, entangled core to the building interior. Starting at the bottom of the wall, position the first piece of drainage mat where the bottom edge of the stone will meet the ledger board.
 4. Mechanically fasten with a staple hammer, large head nail or washer and screw one fastener for each square foot (0.1 sq. m). When installing over concrete or block back-up walls that do not accept mechanical fasteners hold in place with small dabs of glue every 2.0 feet (0.61 m). Do not fasten through flashing.
 5. Seam adjacent piece with the selvage edge overlapping the top of the lower drainage mat piece.
 6. Cut additional 2 inches (51 mm) wide by 12 inches length (305 mm) pieces of drainage mat and place strips every 2.0 feet (0.61 m) on center at the base of the wall extending outside of the wall as a weep vent. Place the strips fabric side UP.
 7. Install stone.
 8. When wall is complete, cut vent strips back flush with wall.
- D. Installation for Brick:
 1. Install building paper or house wrap and flashing to manufactures' recommendations.
 2. Install only as much drainage mat as will be covered by the stone each day. Wall ties can be installed through the drainage mat material.
 3. Place drainage mat horizontally against exterior wall fabric side out, entangled core to the building interior. Starting at the bottom of the wall, position the first piece of drainage mat where the bottom edge of the stone will meet the ledger board.
 4. Mechanically fasten with a staple hammer, large head nail or washer and screw one fastener for each square foot (0.1 sq. m). When installing over concrete or block back-up walls that do not accept mechanical fasteners hold in place with small dabs of glue every 2.0 feet (0.61 m). Do not fasten through flashing.
 5. Seam adjacent piece with the selvage edge overlapping the top of the lower drainage mat piece.
 6. Install brick according to Brick Institute of America or manufacturer recommendation leaving an open head joint every 2.0 feet (0.61 m).
 7. Provide vents to provide open head joints during construction.

END OF SECTION