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DIVISION 4 - MASONRY
SECTION 04 05 23.19
MASONRY CAVITY DRAINAGE

This guide specification can be used to specify all thicknesses of MortarHalt™, a polyester nonwoven filter media engineered with a distinctive profile placed in masonry wall cavities to break up and suspend mortar and debris droppings at two levels, allowing water to flow to the weep holes. This guide contains specification content for all thicknesses of MortarHalt™, depending on wall cavity design. This product specification can be inserted into any other similar masonry specification section not listed in 1.02 Related Sections.

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Masonry Cavity Drainage. Nonwoven filtered media with distinctive profile placed in the wall cavity to break up and suspend mortar and debris droppings at two levels preventing weep hole blockage.

1.02 RELATED SECTIONS

- A. Section 04 05 23 – Masonry Accessories.
- B. Section 04 20 00 – Clay Unit Masonry.
- C. Section 04 22 00 - Concrete Unit Masonry.
- D. Section 04 43 00 - Stone Masonry.

1.03 REFERENCES

Specifier Note: Please note, this article does not require compliance with standards; however, the testing standards are listed below.

- A. ASTM D 4491 – Standard Test Methods for Water Permeability of Geotextiles by Permittivity.
- B. ASTM D 4632 – Standard Test Method for Grab Breaking Load and Elongation of Geotextiles.
- C. ASTM D 4833 – Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products.
- D. ASTM E 96/E 96M – Standard Test Methods for Water Vapor Transmission of Materials.
- E. Federal Test Method Standard 191A, Method 5874 – Temperature, Low; Effect on Coated Cloth.

1.04 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, and general overview/installation instructions.
- C. Samples: Submit manufacturer's complete sample of each material specified, in complete 10" x 5'.
- D. Certification:

1. Installer's Certification: Submit installer's certification indicating compliance with manufacturer's requirements for installation of materials.

E. Warranty: Submit manufacturer's standard warranty.

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1.05 QUALITY ASSURANCE

- A. Manufacturers Qualification: Manufacturer of mortar suspension products of more than 15 years.
- B. Installer's Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity with understanding of flashing drainage systems.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to established site in original, unopened boxes and/or pallets with clear, defined labeling identifying product name and manufacturer as well as detailed packing list of full content.
- B. Storage: Store materials in a dry area indoors, or covered outdoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials during handling and installation to prevent damage.

PART 2 PRODUCTS

2.01 MANUFACTURER

Specifier Note: Retain or delete paragraph(s) below per project requirements and specifier's practice.

- A. MortarHalt™ Innovations; by South Atlantic Masonry Products; 4162 S. Creek Rd, Chattanooga, TN 37406. 877-721-3355: www.mortarhalt.com : info@mortarhalt.com
- B. Substitutions: Not permitted.
- C. Manufacturers of equivalent products submitted and approved in accordance with Section 01630 - Product Substitutions Procedures.

2.02 Products

MortarHalt™ Innovations manufactures three thicknesses of MortarHalt™. MortarHalt - .50, recommended for .50" (12.7mm) masonry cavity wall applications. MortarHalt - 1.0, recommended for 1.0" (25.4mm) masonry cavity wall applications. MortarHalt - 2.0, recommended for 2.0" (50.8mm) masonry cavity wall applications.

A. Mortar Deflection Device:

1. Type: Nonwoven filter media with distinctive profile, placed in the wall cavity to break up and suspend mortar and debris droppings. MortarHalt™ is manufactured by MortarHalt™ Innovations, an E3 Products, Inc company.
2. Composition: 100% post consumer and industrial recycled PET polyester with water based latex binder
3. Thicknesses:
 - a. MortarHalt - .50; thickness of .35" (8.9mm).
 - b. MortarHalt - 1.0; thickness of .90" (23mm).
 - c. MortarHalt - 2.0, thickness of 1.75" (44mm).
4. Height: 10 inches (254 mm).
5. Length: 5.0 feet (1.52m).
6. Product sold by the linear foot/box.

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PART 3 – EXECUTION

3.1 INSTALLATION

- A. MortarHalt and MortarCapture™ should only be installed by experienced masons with knowledge of collection and drainage systems consisting of flashing and weep.
- B. Ensure the wall is has no structural defects, and that all flashings and membranes have been properly installed.
- C. Install product by placing a continuous strip on top of the flashing in the cavity. Place horizontally at the wall base to ensure the mortar droppings are suspending away from the weep holes. MortarHalt™ products with the distinctive profile edges should be placed horizontal with the edges pointing upwards.
- D. Install product at all flashing locations including shelf angles, lintels, slab edges, through-wall penetrations and windowsills.
- E. Follow supplied information supplied with each product.

END OF SECTION