

SECTION 04 05 34

BLOK-FLASH (Single Wythe Concrete Masonry Unit Drainage System)

[This Section may be used as a narrow scope, stand-alone Section or may be modified and incorporated into broad scope Section 04 20 00 Unit Masonry]

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. DIV. 00, Procurement and Contracting Requirements, DIV. 01, General Requirements, and Drawings apply to this Section.

1.2 SECTION INCLUDES

- A. Furnishing and installing complete single wythe concrete masonry drainage system.

1.3 REFERENCES

- A. Applicable requirements of the latest issue of construction industry codes, standards and specifications referenced herein apply to work of this Section.
- B. National Concrete Masonry Association (NCMA) TEK Notes.

1.4 QUALITY ASSURANCE

- A. Mockup:
 - 1. Build drainage pans into sample panel of masonry wall as specified in Section entitled Unit Masonry, and as specified herein.
 - 2. Obtain approval prior to proceeding with any masonry work.
- B. Pre-Installation Conference: Convene prior to commencing work of this Section under provisions of Section entitled Project Meetings.

1.5 SUBMITTALS

- A. Product Data: Catalog cuts, installation details and specifications for all materials.
- B. Samples: Of drainage pans with drainage mattes included.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site, and store and protect under provisions of Section entitled Materials and Equipment.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. CMU Drainage System as manufactured by
Mortar Net[®] USA, 326 Melton Road, Burns Harbor, IN 46304
Ph: 1-800-664-6638 Fax: 219-787-5088

2.2 DRAINAGE SYSTEM

- A. Pan is a high density polyethylene composition .0625 inch thick (1.59 mm) with (7.94) perimeter flange, with a weep spout opening and a 45 degrees drip edge that extends 1.0 inches (25.4 mm) from the outer flange. Specify 8", 10" or 12" wall systems.
- B. Integrated web spacer/bridge unit is a high density polyethylene .0625 inch thick (1.59 mm) that overlapped the adjacent pan and extends from face shell to face shell. Bridge is removable for corner installation.
- C. Drainage Matte is an open weave polyester mesh (7x16 inch) installed in each CMU cell above the pan.

PART 3 EXECUTION

3.1 PREPARATION

- A. Verify items provided by other Sections of work are properly located.

3.2 INSTALLATION OF DRAINAGE SYSTEM

- A. Lay the course(s) of block below the desired flashing level until above grade. Eliminate Step 1 if you lay the pans on a formed concrete foundation above grade.
- B. Install pans by placing two units on each block or evenly along a formed concrete foundation or slab. The drip edge (weep spout) on the pan should extend slightly beyond the face of the CMU, a molded reference lip on the bottom of the pan should rest against the edge of the block or slab.
- C. Span the continuous row of pans with attached web spacers/bridge units designed to divert water to the adjoining pans.
- D. If the walls are reinforced, simply eliminate the pan and bridge at the grouted core. Remove bridge and cross-bed the webs adjacent to the core to be grouted making sure to overlap the flange. This will prevent grout from spreading beyond the intended core.
- E. Utilize standard mortar spreading techniques with mortar lapped, first over the inner and second over the outer flanges of the pan units. This will stabilize the units during installation and later help divert moisture into the pan.
- F. Reduce clogging from mortar and grout droppings by installing the 7 x 16 inch polyester mesh drainage mattes into the core cavity above the pans. This will suspend mortar droppings in the core allowing moisture to flow down the inside face of the block and into the pan.

G. Tool all head and bed joints and remove any obstruction from the weep spouts.

H. Install Bug Guards provided with system by inserting one into each weep spout.

3.3 PROTECTION

A. Protect finished Work under provisions of Section entitled Temporary Services and Facilities.

B. Provide protection without damaging completed work.

END OF SECTION