

ITEM 08560.70 M BRICK FACING

DESCRIPTION. Provide dovetail slots or channel anchors; clean the concrete surfaces; furnish brick, and mortar the brick in place to construct a brick facing wall with a running bond, unless shown differently on the plans or ordered by the Engineer.

MATERIALS.

A. Brick - new, uniform in quality and Manufacturer certified to meet ASTM C216, Grade SW. Submit samples for color range, size, texture and pattern for the Engineer's approval prior to use.

B. Anchoring Hardware, subject to approval of the Engineer:

Dovetail Slot (Installed In New Wall) or Channel (Attached To Existing Wall) - minimum 1.6 mm thick, Type 304 stainless steel meeting ASTM A240 (previously A167).

Wire Ties and Anchors - Type 304 stainless steel meeting ASTM A580

Sheet Metal Anchors and Ties - Type 304 stainless steel meeting ASTM A240 (previously A167)

Stainless Steel Connectors (Type 304 or 305 meeting ASTM A 193) §715-16

C. Joint Material:

Premoulded Resilient Joint Filler §705-07

Caulking Compound for Structures §705-06

Expansion joint sealant (caulk) - match the color of the mortar, as approved by the Engineer.

D. Masonry Mortar, Type S §705-21

CONSTRUCTION DETAILS. Use a minimum of 2 fasteners per channel or dovetail slot, and a maximum fastener spacing of 300 mm, to attach channels or slots to a wall.

Position the anchoring hardware as per the following maximum spacing, or as approved by the Engineer:

Dovetail slots or channels - 600 mm horizontally

Anchors - 300 mm vertically and 600 mm horizontally

Clean the concrete surfaces of all substances which will interfere with bonding. The cleaning methods will be subject to approval by the Engineer.

Follow the cleaning operations with compressed air jetting or vacuum cleaning to ensure removal of all loose particles. Remove all materials and debris resulting from surface preparation prior to proceeding with the mortar work.

To determine if bricks need wetting prior to use, perform the following test in the presence of the Engineer:

1. With a wax pencil, draw a 25 mm circle (use a quarter as a guide) on a face which will be in contact with mortar.
2. With a medicine dropper, rapidly place 20 drops of water inside the circle.

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3. Note the time required for the water to be absorbed.
4. If the time exceeds 1½ minutes from the first drop of water, no wetting is needed.
5. If the time is less than 1½ minutes, wetting is required.

If wetting is deemed necessary by the Engineer, immerse the bricks in water for a few hours and use the next day when they are surface dry. Hand dipping of brick in water prior to use will not be allowed.

Install each new brick in mortar so as to form a full bed, with end and side joints in one operation in a neat, true to line and grade manner. Stagger the vertical joints a minimum 1/3 of a brick length. Secure the brick facing to the wall with stainless steel, anchors placed in dovetail slots or channels. Completely fill the space between the brick facing and the wall with mortar, and finish the joints with a pointing tool that creates a joint shape that sheds water.

Position the brick facing joints to line up with existing wall joints, and construct weep extensions to pass through the brick facing, as approved by the Engineer.

Protect uncompleted work with waterproof coverings at the close of each day, when work ceases for any reason, and at any other time damage is likely. Use weighted, secure coverings that overhang the work by 600 mm or more on all sides, as approved by the Engineer.

Protect the completed masonry from drying and keep damp for a period of at least 3 days.

After completion of brick laying or other adjacent work likely to soil the masonry, thoroughly clean the masonry wall from joint to joint (construction joint to construction or expansion joint), or as determined by the Engineer. First, brush the dry wall with stiff fiber bristles to remove all loose contaminants likely to stain the wall. Then, thoroughly wet the wall and apply a masonry cleaner approved by the Engineer. Rewash and rinse the wall with clean water after application of the cleaner to remove all dirt, dust, mortar and stains. Always start the cleaning operation at the top and proceed downward.

Install the brick facing only when the ambient and all brick temperatures are 5° C or more. If these temperatures are expected to be less than 5° C, use heating or insulating procedures, approved by the Engineer, for at least the first 24 hours after installation. If the ambient air temperature exceeds 32°C, spread the mortar bed less than 1½ meters ahead, and set the bricks within 1 minute.

METHOD OF MEASUREMENT. The Engineer will measure the work as the number of square meters of brick facing.

BASIS OF PAYMENT. Include the cost of furnishing all labor, materials and equipment necessary to complete the work in the unit bid price per square meter for constructing the brick facing.

Progress payments will be made, at the unit bid price, for 75% of the quantity placed as approved by the Engineer. The balance will be paid after cleaning the brick facing.

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