

ITEM 15566.31 M - WEEP TUBES FOR STRUCTURAL SLABS

DESCRIPTION:

This work shall consist of drilling holes through the structural slab and any necessary additional materials, removing concrete to depress the surface around the hole, installing weep tubes, and smoothing the depressed area with mortar; at the locations indicated on the Contract Plans, or where ordered by the Engineer.

MATERIALS:

The weep tubes shall be plastic pipe with a minimum wall thickness of 3mm. The nominal diameter of the pipe shall be 50mm, or as specified on the Contract Plans.

Pneumatic hammers used for concrete removal shall weigh less than 20kg with the bit and muffler removed. Only chisel point bits shall be used.

Materials used to produce the mortar shall meet the requirements of the following Subsections of Section 700:

Portland Cement	Type 1 or Type 2	- 701-01
Mortar Sand		- 703-03
Water		- 712-01

CONSTRUCTION DETAILS:

The holes shall be drilled at the locations indicated on the Contract Plans, except that the Contractor may drill the holes up to 75mm from the indicated locations in order to avoid drilling through reinforcing steel in the structural slab. Holes for the weep tubes shall be vertical, unless otherwise shown on the Contract Plans.

Concrete shall be removed from the area around weep tube locations to create a depression as shown on the plans. The concrete removal shall be performed by grinding, bushhammering, chipping, or a combination thereof. At the completion of the work, the area shall have no sharp projections or edges; mortar shall be used to smooth the work area.

Prior to installation of the weep tubes, the exterior surface of the pipe shall be roughened with a pipe wrench, or other tool approved by the Engineer, for a length equal to the thickness of the structural slab.

The pipes shall be installed flush with, or up to 6mm below, the depressed surface of the structural slab. The pipes shall extend below the structural slab 75mm or to the distance shown on the Contract Plans.

Mortar shall be used to fill any voids between the pipe and structural slab and to smooth the surface of the structural slab in the work area. The mortar shall consist of one part portland cement to two parts mortar sand, by volume, mixed with sufficient water to produce a workable consistency.

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METHOD OF MEASUREMENT:

Measurement will be taken as the number of weep tubes installed.

BASIS OF PAYMENT:

The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to complete the work as shown on the Plans, or called for in this Specification.