

ITEM 08608.1101 M - FURNISH & INSTALL SLATE SIDEWALK (STONE DUST SETTING BED)

ITEM 08608.1102 M - FURNISH & INSTALL SLATE SIDEWALK (MORTAR SETTING BED)

DESCRIPTION:

Under this item, the contractor shall furnish and install slate sidewalk flags on a prepared base in accordance with these specifications and in conformance with the lines, grades, and typical sections shown on the plans or established by the Engineer.

MATERIALS:

Mortar shall conform to the requirements of Section 705-21 of the Standard Specifications.

Stone dust setting bed materials and joint filler shall consist of hard, durable, uncoated particles of soil or rock, free from lumps of clay and all deleterious substances.

The stone dust setting bed materials and joint filler shall meet the following gradation requirements and shall be approved by the Regional Geotechnical Engineer.

<u>SIEVE SIZE</u>	<u>PERCENT PASSING BY WEIGHT</u>
6.3 mm	100
2.0 mm	50 - 85
425 µm	20 - 45
75 µm	3 - 10

The slate flags shall be 40 mm thick No. 1 clear quality Pennsylvania slate or equal meeting the requirements of ASTM C-629. The top will have a natural cleft finish, the edges shall be smooth sawn, and the bottom shall have a gauged rubbed finish. The maximum size slate to be provided under this item shall not exceed 1065 mm in greatest dimension on any one piece.

CONSTRUCTION DETAILS:

The slate shall be placed over either stone dust setting bed or a mortar setting bed and set at the grade and slope shown on the plans or as directed by the Engineer.

When a stone dust setting bed is used, the slate shall be laid on a properly prepared 50 mm setting bed, placed over a properly prepared subgrade, and made handtight. When a mortar setting bed is used, the slate shall be placed on a 25 mm setting bed over a specified concrete or bituminous subbase. While the mortar is plastic, the slate shall be laid onto the mortar and made handtight.

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After the slate has been set, stone dust shall be swept into the joints with a stone dust setting bed, and mortar shall be placed into the joints with a mortar setting bed.

The contractor shall protect the slate for the duration of the contract. Any damage done to the adjacent areas shall be repaired by the contractor at his expense.

Where substantial tree roots are encountered in resetting, the line and grade shall be adjusted as necessary to assure preservation of the tree roots as approved by the Engineer. Where necessary, material conforming to the subbase specification shall be utilized to perform such adjustment.

The flags provided shall be the same width as the existing flags being replaced. All flags provided shall be square unless otherwise directed in writing to the Engineer.

METHOD OF MEASUREMENT:

Slate shall be measured by the number of square meters of slate furnished and installed.

BASIS OF PAYMENT:

The unit price bid, per square meter, shall include the cost of furnishing all labor, materials and equipment necessary to complete the work, including setting bed material, as specified except that any necessary excavation and subbase course will be paid for under their appropriate items.