

ITEM 08608.4001 M - BLUESTONE SIDEWALKS (STONE DUST SETTING BED)

DESCRIPTION:

The work under this item consists of constructing new bluestone sidewalks in accordance with these specifications and in conformity with the lines and grades shown on the plans or as directed by the Engineer.

MATERIALS:

Bluestone:

The stone shall be NYS bluestone. The stone shall be a free stone (meaning solid, no black lines showing with grain) - no reed stone will be acceptable. Natural color variations that are characteristic of the deposit will be permitted. Any sidewalk panels containing discoloration other than cleanable surface stains must be approved by the Engineer prior to inclusion in the work.

Sidewalk panels shall be 1.5 meters wide and a minimum of 0.6 meters long. Minimum thickness shall be 50 mm and the maximum being 115 mm. No spalted edges that are undercut with more than a 22 degree angle from top will be acceptable. All stone shall be free of open seams. Natural cleft surfaces should be ± 3 mm from arris plane. Pieces should be cut to size, full dimension ± 6 mm in length, width, and being square.

Stone Dust:

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 setting bed material shall meet the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing By Weight</u>
6.3 mm	100
2.0 mm	50-85
425 μ m	20-45
75 μ m	3-10

CONSTRUCTION DETAILS:

The stone dust setting bed and bluestone shall be placed on compacted subbase as shown on the plans. The stone dust setting bed thickness will vary according to actual thickness of bluestone. Total thickness of stone dust setting bed and bluestone shall be 150 mm. Bluestone is to be set on stone dust setting bed with approximately 9 mm to 12 mm joint to be swept full with screenings. When setting stones the screening should be leveled to match bottom of the profile of the stone to be laid. After stone is set they should be tamped with handle of sledge hammer or block of wood to vibrate stone into bed. If stones are low after being tamped, they must be repicked and stone dust added under full area

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of stone, raising and packing edges will not be acceptable. All stones must set in full bed of stone dust with no voids. Any stone that rocks from corner to corner must be picked and leveled to desired grade.

Any stones with chipped corners or spalted edges will be rejected.

Damage to adjacent sidewalks by the contractor's operation shall be repaired to the satisfaction of the Engineer at the contractor's expense.

METHOD OF MEASUREMENT:

The bluestone sidewalks shall be measured by the number of square meters placed as shown on the plans or as directed by the Engineer.

BASIS OF PAYMENT:

The unit price bid per square meter shall include the cost of furnishing all labor, materials, and equipment including stone dust setting bed, necessary to complete the work as shown on the plans or as directed by the Engineer.