

ITEM 07615.0112 M - TREE GRATE - 1.2 METER SQUARE
ITEM 07615.0115 M - TREE GRATE - 1.5 METER SQUARE
ITEM 07615.0118 M - TREE GRATE - 1.8 METER SQUARE

DESCRIPTION:

This work shall consist of furnishing and installing tree grates in accordance with the plans, specifications, and the recommendations of the manufacturer, unless otherwise directed by the Engineer, including anchor bolts, brackets, fittings, and all other material necessary to install the tree grates.

MATERIALS:

Paver-Grate: 63.5 mm x 50.8 mm x 4.76 mm steel bar, 12.78 mm steel bar, and 3.0 Gratex expanded metal.

Base Plate Support: 9.53 mm x 88.9 mm steel bar.

Base Plate: 6.35 mm steel plate and 3.18 mm x 38.1 mm steel bar.

Fasteners: Stainless steel.

Finish Semi-gloss black polyester powder coating.

Tree Grate	Model	Weight
1.2 m Square	20-40	75.3 kg
1.5 m square	20-50	112.5 kg
1.8 m Square	20-60	142.4 kg

Manufacturer: DuMor , Inc., P.O. Box 142, Mifflintown, PA 17059-0142.

Portland Cement Concrete used for footings shall be Class A or C conforming to the requirements of Section 501 “Portland Cement Concrete - General” except that the requirements for automated batching shall not apply.

Material will be subject to inspection at any time during the Contract. Failure of the Engineer to note faulty material or workmanship during construction shall not relieve the Contractor of his responsibility for removing or replacing such material or redoing work which may fail to pass any of the inspector’s review of the work.

CONSTRUCTION DETAILS:

The Contractor shall submit three (3) copies of catalog cuts or detailed shop drawings to the Engineer for review. Drawings shall clearly show all materials, finishes, and connecting and joining methods. No fabrication shall commence prior to the written approval of the Regional Director.

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Assembly of the tree grate components shall be performed in strict accordance with the manufacturer's recommendations for installation.

The tree grates shall be installed following the manufacturer's installation procedure "Type #1" in areas of existing brick pavers and "Type #2" in areas without existing brick pavers, except as modified in the plans, or as ordered by the Engineer. The cost of removing and resetting existing brick pavers' required as part of installation procedure "Type #1" and new brick pavers required as part of installation procedure "Type #2" shall be included in their appropriate items. All necessary excavation and disposal, subbase, and concrete required as part of either installation procedure shall be included as part of the tree grate item. Any work, outside the pay limits of the tree grate item, necessary as part of either installation procedure, shall be included in their appropriate items.

The Contractor shall protect all parts of the tree grates and maintain them in an undamaged condition until completion and acceptance of the Contract. Any components of the tree grates damaged at any time prior to final acceptance shall be repaired or replaced, to the Engineer's satisfaction, at the Contractor's expense.

METHOD OF MEASUREMENT:

The work will be measured by the number of tree grates, properly furnished and installed in accordance with the Contract Plans, specifications, and the direction of the Engineer.

BASIS OF PAYMENT:

The unit price bid for the tree grates shall include the cost of furnishing all labor, materials, equipment, and tools necessary to satisfactorily complete the work including any clearing, grubbing, excavation and disposal, concrete, and subbase in accordance with the contract documents and directions of the Engineer.

Payment will be made under:

Item No.	Item	Pay Unit
07615.0112 M	Tree Grate - 1.2 Meter Square	Each
07615.0115 M	Tree Grate - 1.5 Meter Square	Each
07615.0118 M	Tree Grate - 1.8 Meter Square	Each