

ITEM 557.4103 10 M – STAINLESS STEEL GRID DECK FOR INSPECTION WALKWAY

DESCRIPTION

Under this item the Contractor shall furnish and install stainless steel grid deck and connections in accordance with the Contract Drawings, these specifications and/or as directed by the Engineer.

MATERIALS

Steel grid deck to be a mesh rectangular design. Material for the grating and connection plates shall conform to ASTM A240M and ASTM A666, Type 316L stainless steel. Main bars to be 50mm x 5mm spaced at 30mm center to center. Cross bars to be 25mm x 5mm, flush top, and spaced at 100mm center to center. Main bars and crossbars shall be slotted at their intersections so as not to remove excessive material from the load-sustaining members. Main bars to be slotted and have their slots solidly filled by the cross bars. Finish shall be mill finish. Overall dimensions of grid deck work shall be as shown in the plans.

Bolts, nuts, and washers used to connect the grid deck to the bridge through girder shall conform to §715-14 of the Standard Specifications.

CONSTRUCTION DETAILS

Connection plates shall be welded to the grid deck in the proper locations in the shop. Welding shall conform to the AWS standards. When a weld filler is required, AWS E/ER 316L and 16-8-2 shall be used. Set work accurately in location, alignment and elevation, plumb, level, true and free of rack, measured from established lines and level.

As shown on the Contract Drawings, weld an additional bearing bar along the edge of the panels that faces away from the tracks to provide a clean edge.

METHOD OF MEASUREMENT

This item will be measured for payment on square meter basis for installed stainless steel grid deck completed in accordance with the Contract Documents and as directed by the Engineer.

BASIS OF PAYMENT

The square meter price shall include the cost of furnishing all labor, material, equipment and appliances, including fastening, necessary to complete the work as indicated on the plans, and as specified under this item.