

**ITEM 11557.4102 M - STAINLESS STEEL GRID DECK FOR PEDESTRIAN BRIDGE
AND PLATFORM**

DESCRIPTION:

Under this item the Contractor shall furnish and install stainless steel grid deck at the pedestrian bridge and platform, in accordance with the Contract Drawings, these specifications and/or as ordered by the Engineer.

MATERIALS:

Steel Gratings and Frames

Steel Grid Deck to be closed mesh rectangular design. Material to be Type 304 stainless steel. Main bars to be 32mm x 5mm spaced at 17mm center to center. Cross bars to be of rectangular cross section, 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 "dovetail" slotted and have their slots solidly filled by the cross bars. Grating to be radially cut where shown on the plans. Finish shall be mill finish. Overall dimensions of grid deck work shall be as shown in the plans.

Provide stainless steel gratings complying with FS RR-G-661 with rectangular cross bars welded to bearing bars. Gratings subject to pedestrian traffic only shall be designed to support a live load of 100 psf. and a concentrated load of 300 lbs. in accordance with NAAMM load charts and standards. Bars to have plain wearing surface.

CONSTRUCTION DETAILS

INSPECTION Examine the areas and conditions where the grid deck is to be installed and notify the Engineer of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the grid deck.

Grid deck panels to be radially cut as shown on the plans. Weld an additional bearing bar along perimeter of panels to provide a clean edge.

Examine the areas and conditions where miscellaneous metal is to be installed and notify the Architect of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

Tack weld every third bearing bar to support members as shown on the plans.

ERECTION Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in-place construction; including threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws, and other connectors as required. Set work accurately in location, alignment and elevation, plumb, level, true and free of rack, measured from established lines and levels.

METHOD OF MEASUREMENT:

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This item shall be measured for payment on square meter basis for installed stainless steel grid deck for the work completed in accordance with the Contract Documents and as ordered 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.