Alabama Metal Industries Corp.
3245 Fayette Ave.
Birmingham, AL 35208

PRODUCT SPECIFICATION GUIDE
RIVETED BRIDGE DECK GRATING

How to Specify:
This information is designed to conform to the requirements of the Three-Part Section Format of the CSI/CSC *Master Format* for construction specifications. These specifications are intended to be used as a guideline for architects and engineers as they establish the requirements for a particular project, and may be modified by them as deemed appropriate.

PART 1: GENERAL

1.1 Scope of Work

The contractor shall provide all labor, materials, equipment and incidentals as shown and specified and are required to furnish and install grating, stair treads and supports.

1.2 Quality Assurance

A. Comply with applicable provisions and recommendations of the ANSI/NAAMM MBG 532 for Heavy Duty Metal Bar Grating Manual.

B. The steel used in the Bearing Bars shall be of rectangular section and conform to ASTM A36, the steel used in the Reticuline Bars shall be of rectangular section and conform to ASTM A569. Rivets shall be 3/8 inch diameter steel in conformance with ASTM A575.

C. No substitution of materials will be accepted unless they are submitted for review and the Architect/Engineer approves their use.

1.3 Submittals

A. The contractor shall submit to the owner or its representative, for approval, shop drawings for fabrication and erection of the work. Included shall be plans, elevations, sections and details of the work.

B. The contractor shall submit the manufacturer's specifications, load tables, anchor details and standard installation details.

C. The contractor may be required to take field dimensions to verify "as built" conditions to ensure proper fit of the grating.

PART 2: PRODUCT

2.1 General

A. Grating shall be Amico Riv-Dexteel Bridge Deck Grating as manufactured by Alabama Metal Industries Corp. or approved equal.

B. Bearing Bars: Material shall be steel as specified and are spaced at 2 5/16 inches face to face of bars. They shall be rectangular in shape and of an appropriate depth and thickness to carry the specified load.

C. Reticuline Bars: Material shall be steel as specified, rectangular in shape, formed in a crimped pattern connecting to the bearing bars and riveted to them with 3/8" diameter rivets at 5" centers.

D. Surface: The bearing bars shall have a smooth top surface unless the Architect/Engineer, determines that a serrated surface is required.

E. Loading: The uniform load shall be designated by the Architect/Engineer, the deflection shall not exceed ¼ inch over the required span. When vehicular traffic is present the load may be specified in accordance with AASHTO standards for Highway Bridges.

F. Finish: Manufacturers standard shop coat black or Galvanized as required by the Architect/Engineer.

PART 3: EXECUTION

3.1 Shop Fabrication

A. All required cutting, fitting and welding shall be performed in the manufacturers shop in accordance with the approved shop drawings and shall be in compliance with the NAAMM Heavy Duty Metal Bar Grating Manual tolerances and welding standards.

B. All cutouts to clear obstructions shall have a recommended clearance of 1 inch. When banding and toe plates are required they shall be welded to the grating in accordance with NAAMM standards.

C. The finish coating, paint or galvanizing shall be applied after all of the required fabrication is complete.

3.2 Installation

A. The grating shall be received at the job site by the contractor, unloaded and protected from damage prior to the requirement for it to be installed.

B. The installing contractor shall prepare the site for installation, determining that Deviations from the approved drawings are corrected prior to grating placement.

C. Grating shall be installed in accordance with the approved shop drawings and the installation clearances called for in the NAAMM Heavy Duty Metal Bar Grating Manual including the use of the prescribed anchor system.