

# SPECIFICATION INFORMATION

Ohio Gratings is a member in good standing with the National Association of Architectural Metal Manufacturers. All aluminum and steel grating manufactured and fabricated by Ohio Gratings is done so in accordance with the NAAMM Metal Bar Grating Manual, current edition, which is an approved standard of the American National Standards Institute and designated as ANSI/NAAMM MBG 531 (steel, stainless steel, and aluminum grating and stair treads) and ANSI/NAAMM MBG 532 (structural carbon steel and stainless steel).

The following table outlines the material, Federal, Military and finishing specifications routinely used by the grating industry. In the absence of customer furnished specifications, the following will apply:

| PRODUCT   | MATERIAL SPECIFICATION   | FEDERAL SPECIFICATION  | MILITARY SPECIFICATION | FINISH SPECIFICATION  |
|---|--|--|------------------------|---|
| ALUMINUM FLUSH TOP,<br>Aluminum Rectangular Bar,<br>Aluminum I-Bar,<br>Lite Bar,<br>Aluminum Dove Tail,<br>Aluminum Riveted   | 1. Alloy 6063-T6 per ASTM B-221 and QQ -A-200/9.<br>2. Alloy 6061-T6 per ASTM B-221 and QQ -A-200/8 (by inquiry).  | ANSI/NAAMM MBG 531   | MIL-G-18014 (Ships)    | 1. Mill Finish<br>2. Clear Anodized AA-A31 (30 min.) or AA-A41 (60 min.) (by inquiry).<br>3. Other (by inquiry).  |
| Aluminum Plank,<br>Aluminum Grating Frames  | 1. Alloy 6063-T6 per ASTM B-221 and QQ -A-200/9.   |  | MIL-G-18015 (Ships)    | 1. Mill Finish<br>2. Other (by inquiry).  |
| Heavy Duty Welded Steel,<br>Heavy Duty Riveted Steel,   | 1. ASTM A-36 (1/4", 5/16", 3/8", 1/2" carbon steel).<br>2. Other (by inquiry).   | AASHTO (American Association of State Highway and Transportation Officials) Standard Specification For Highway Bridges<br><br>ANSI/NAAMM MBG 532 |                        | 1. One coat manufacturer's standard black paint. This is not a permanent finish system, but is intended to protect the grating in transit only.<br>2. Galvanizing per ASTM A-123/A-385. |
| Light Duty Welded Carbon Steel,<br>Light Duty Dove Tail Carbon Steel,<br>Light Duty Swaged Carbon Steel,<br>Light Duty Swaged Stainless Steel,<br>Light Duty Riveted Carbon Steel | 1. ASTM A-1011 (1/8", 3/16", 1/4" carbon steel).<br>2. ASTM A-36 (1/4" carbon steel) by inquiry.<br>3. Type 304 per ASTM A-666 (1/8" and 3/16" stainless steel).<br>4. Other (by inquiry). | ANSI/NAAMM MBG 531   | MIL-G-18014 (Ships)    | 1. One coat manufacturer's standard black paint. This is not a permanent finish system, but is intended to protect the grating in transit only.<br>2. Galvanizing per ASTM A-123/A-385  |

\*Effective March 10, 1989, the Naval Facilities Engineering Command adopted the NAAMM Metal Bar Grating Manual for Department of Defense use, replacing Federal Spec RR-G-661 as the specification for carbon steel and aluminum metal bar grating flooring, except for naval vessels.

## A Word About Finishing Grating

Due to the open grid pattern and multitude of edges, the finishing of grating with the various commercially available paint systems often produces a less than satisfactory coating. Additionally, these systems are generally more expensive than galvanizing or anodizing, which are the most commonly selected protective finishes of choice.

Since the aluminum oxide coating of aluminum bar is relatively inert chemically, and is self-repairing when damaged in the presence of oxygen, aluminum bar grating possesses a high degree of corrosion resistance in the mill finished condition, and is typically specified without additional coatings or treatment.