METAL BAR GRATING

NAAMM STANDARD

MBG 535-25

GRATINGS 5 NAAMM / MBG 535-25

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CODE OF STANDARD PRACTICE

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A Division of
NAAMM
NATIONAL ASSOCIATION OF
ARCHITECTURAL METAL MANUFACTURERS

This Manual was developed by representative members of and approved by the Metal Bar Grating (MBG) Division of the National Association of Architectural Metal Manufacturers (NAAMM) to provide their opinion and guidance regarding practices recommended by leading manufacturers in the industry. This standard contains advisory information only and is published as a public service by NAAMM and its MBG Division. NAAMM and its MBG Division disclaim all liability of any kind for the use, application, or adaptation of material published in this standard.

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CODE OF STANDARD PRACTICE

The following Code represents generally accepted standard practice in the metal bar grating industry. In order to avoid misunderstanding, these practices will apply only to manufacturers individually adopting them, and then, only to the extent each manufacturer has not made unilateral modifications. Each manufacturer is free to modify the Code generally or as it specifically agrees with any Buyer.

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1 GENERAL

1.1 Scope and Application

The rules and practices contained in this Code were developed by the NAAMM Metal Bar Grating Division as standard for the industry. Unless specifically stated otherwise, they shall be considered applicable to, and a part of, all contracts relating to the purchase and supply of metal bar gratings and/or treads.

No provisions herein contained, however, shall be construed as denying the right of any company to set its own prices and terms of sale, or restricting any Buyer or Seller from voiding, by mutual agreement, any part of this Code.

1.2 Definitions

As used in this Code, the term "product" or "products" refers to metal bar gratings or metal bar grating treads, and their accessories; the term "Buyer" to the party, or authorized representative of the party, who contracts to purchase such products, and the term "Seller" to the manufacturer who contracts to supply them.

1.3 Designs and Materials

Unless otherwise specified, all designs and materials shall be in accordance with the Standard Specifications for Metal Bar Gratings and Treads as published in the NAAMM Metal Bar Grating Manual, latest edition, and the NAAMM Metal Bar Grating Engineering Design Manual, latest edition.

2 QUOTATIONS

2.1 Bidding Plans

Plans intended to serve as the basis for bidding shall provide complete information as to the description of the product, the limits of areas to be covered, the direction of span of grating panels, all supporting members, all cutouts to be provided in the grating area, anchors if required, and finishes desired.

2.2 Basis of Unit Price Quotations

Quotations shall preferably be on the basis of unit price per square foot (square meter) of grating and per tread. The quoted grating price shall be for grating furnished in rectangular sections.

2.3 Extras

The following are examples of items not included in unit price quotations, and shall be considered as extras in quotations:

- Cutting
- Banding
- Toe plates
- Support plates or angles
- Hinges
- Locking devices
- Forming, undercutting or notching
- Special drilling, punching or tapping
- Anchors
- Bolts for stair treads Degreasing or sandblasting
- Special bundling or strapping other than steel strapping
- Field measurements
- Installation
- Any materials, practices or finishes not called for in the Standard Specifications for Metal Bar Gratings and Treads, including special welding if galvanized in accord with ASTM A 385.
- Research of structural steel detail drawings to determine the cutout dimensions for vertical bracing and moment connections when such details are not furnished prior to start of preparation of grating drawings.

3 DRAWINGS AND SPECIFICATIONS

3.1 Construction Drawings and Specifications

The Buyer shall be expected to furnish to the Seller an electronic file of construction drawings and specifications of current issue showing the layout of supports and floor openings correctly dimensioned, together with the sizes and types of grating and treads desired. Should cutouts for vertical bracing or moment connections be required for shop fabrication, the structural steel detail drawings shall be furnished prior to the preparation of the grating drawings.

If construction drawings and specifications are not available, the Buyer shall provide complete information regarding all items listed in "Information to be Provided" as shown on page 23 of the NAAMM Metal Bar Grating Manual, or page 14 of the NAAMM Heavy Duty Metal Bar Grating Manual.

3.2 Limit of Seller's Responsibility

Unless otherwise notified in writing, the Seller shall assume that the Buyer’s construction plans and specifications are accurate in all respects. The Seller’s responsibility shall be limited solely to furnishing the products in accordance with the documents supplied at the time of issuance of the purchase order. The Seller shall not be responsible for obtaining or verifying any documents referenced but not provided by the Buyer.

3.3 Approval Drawings

If required by the Buyer, the Seller shall submit to the Buyer one electronic copy of detailed drawings in outline form for the latter's review. The Buyer shall return one copy marked with his approval or desired changes. Should changes be required which involve work not called for in the original construction plans and specifications, the Seller shall have the right to charge extra for the engineering work required to make such changes. After all necessary corrections and/or changes are made, the drawings shall be re-submitted to the Buyer for his final review. The Seller shall not proceed with any shop work until drawings are approved for fabrication.

3.4 Installation Drawings

If requested, the Seller shall furnish to the Buyer an electronic copy of all installation drawings.

4 GRATING MISCELLANEOUS SUPPORTS

4.1 When construction drawings are furnished to the Seller as per item 3.1, drawings shall show and locate all main and miscellaneous structural members intended to support the grating.

4.2 To facilitate installation, it may be required to cut the grating panels around penetrations, equipment supports, or other obstructions common to the grating supports. Buyer shall properly review and correct any support deficiencies when such conditions occur.

4.3 Seller will not accept any type of backcharges for support deficiencies as insufficient support is considered an omission at time of design.

5 QUANTITY MEASUREMENTS

5.1 Quantity measurements for gratings ordered to specific dimensions without drawings, shall be based on span times width of each panel, with no deduction made for cutouts.

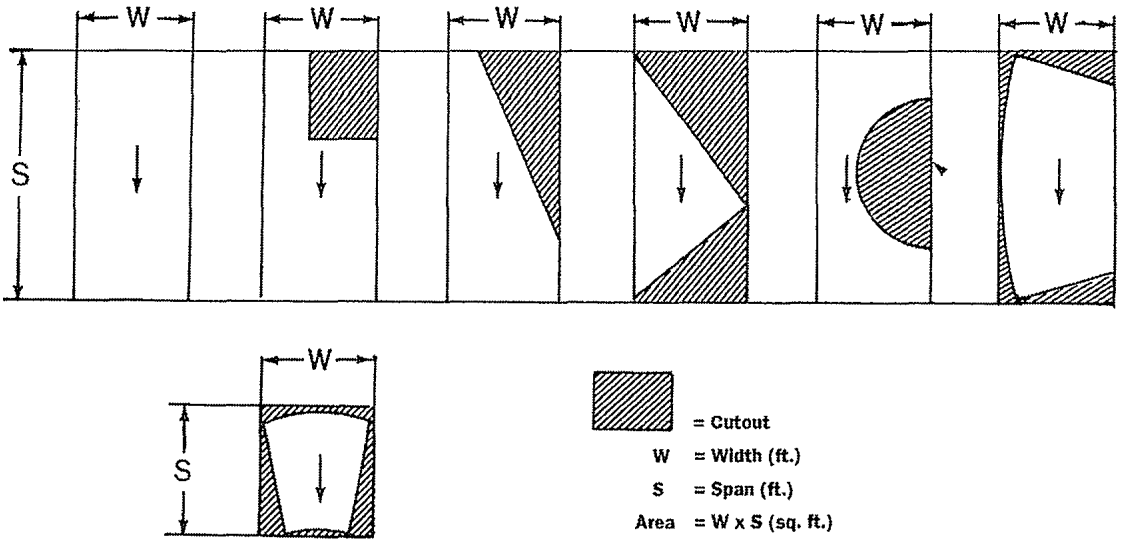
5.2 Final calculated grating quantities supplied from drawings shall be on the basis of gross area measured center-to-center of supports, or back-to-back of supporting angles or channels, or overall dimensions of grating, whichever is larger, with no deduction for clearances. Allowances for cutouts shall be determined as follows:

a) Deductions in area for circular cutouts will be allowed only when the diameter of the cutout exceeds 3' 6" (1.07m). The deduction allowance will be equal to one-half of the square of the diameter of the cutout.

b) Deductions in area for cutouts other than circular will be allowed only when the cutout area exceeds nine (9) square feet (0.84 square meters).

c) No deductions will be allowed for any triangular segment or corners of gratings wasted in skew cuts.

d) For special applications, such as (but not limited to) containment areas (such as located in nuclear facilities), the final grating quantities shall be the total gross area of all the pieces furnished with no allowance for cutouts. See the following sketches.



5.3 Measurement of cuts shall be on the basis of a minimum of one (1) linear foot (0.3 m) per panel. Any cut in excess of one (1) linear foot (0.3 m) shall be measured to the next higher linear foot (0.3 m). (See diagram at the right.)

5.4 Measurement of bandings, toe plates and nosings shall be on the same basis as that of cuts, as defined in 5.3.

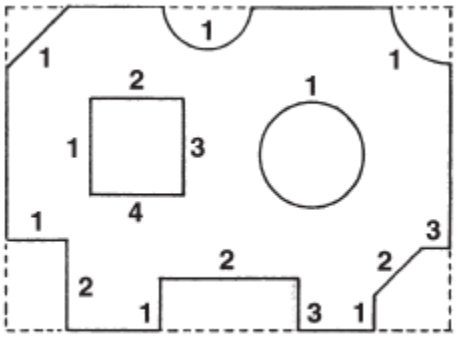


Diagram showing number of cuts required

6 CHANGES IN SCOPE OF CONTRACT

6.1 If at any time during the course of the work, the Buyer orders changes made which require materials and/or labor not called for in the original bidding plans, the cost of making such changes shall be paid by the Buyer at a price to be agreed upon.

7 FIELD WORK

7.1 The Seller shall not be responsible for taking actual measurements of construction work in the field.

7.2 Backcharges for field work of any kind are not acceptable without prior written authorization by the grating supplier.

8 BACKCHARGES

8.1 Upon discovery of unsatisfactory material, the Buyer shall immediately notify the Seller.

8.2 The Seller shall acknowledge receipt of the Buyer's complaint and initiate an investigation.

8.3 The Seller shall be given the opportunity to inspect the material PRIOR TO ANY CORRECTIVE WORK BEING DONE.

8.4 Seller is responsible for providing grating in accordance with approved drawings and specifications. Seller is not responsible for field changes, drawing changes not received and approved by Seller prior to grating fabrication.

8.5 If the investigation and inspection confirm errors in Seller fabrication, the Seller agrees to repair and/or replace defective material at no charge to the Buyer.