

# PRODUCT SPECIFICATION GUIDE

## Aluminum Lite I-Bar - SGLi Series

### How to Specify:

The information below provides a specification format for architectural and engineering specification sections that, when applied, will be consistent with the Three-Part Section Format for Construction Specifications Canada (CSC) and the Technical Documents Committee of Construction Specifications Institute (CSI) for specifications serving the construction industry. These specifications are intended for use as a guide spec for architects and engineers, and may need to be altered or modified to fit the specific conditions of the application in question.

### Part 1: General...

#### 1.1 Scope

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

#### 1.2 Quality Assurance

A.1. Comply with applicable provisions and recommendations of the following: NAAMM Metal Bar Grating Manual designated ANSI/NAAMM MGB 531 (Aluminum and Light Duty Steel and Stainless Steel Grating) and MBG 532 (Heavy Duty Steel Grating).

2.a. **Aluminum:** ASTM B221, Aluminum Alloy, Extruded Bars, Rods, Wire, Shapes and Tubing.

2.b. **Light Duty Steel:** ASTM A569 for hot rolled carbon steel sheet and strip. ASTM A510 for carbon steel wire rods and coarse round wire. ASTM A167 for stainless steel.

2.c. **Heavy Duty Steel:** ASTM A36 for hot rolled structural steel bars. ASTM A510 for carbon steel wire rods and coarse round wire.

B.1. **Take field measurements** prior to preparation of Shop Drawings and fabrication where required, to ensure proper fitting of the work.

#### 1.3 Submittals

A. The contractor shall submit for approval Shop Drawings for the fabrication and erection of all work. Include plans, elevations, and details of sections and connections. Show type and location of all fasteners.

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

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### Part 2: Product...

1. Grating: Aluminum Lite I-Bar SGLi Series by Ohio Gratings, Inc., or approved equal.

2. Bearing Bars: I-Bar section with 3/16" flanges on a maximum of 1 3/16" centers. (Note: other spacings may be specified at the discretion of the architect/engineer.)

3. Cross Bars: Locked at right angles to bearing bars at a maximum of 4" on center. (Note: 2" cross bar centers may be specified at the discretion of the architect/engineer.)

4. Surface: Flanges to have a striated surface.

5. Loading: Grating to carry a pedestrian loading equal to a uniform load of 100# per square foot over the required clear span with deflection not to exceed 1/4". (Note: alternate loading requirements may be specified at the discretion of the architect/engineer.)

6. Finish: Mill finished.

7. Fabrication and Tolerances: in accordance with the NAAMM Metal Bar Grating Manual.

### Part 3: Execution...

#### 3.1 Installation

A. Prior to grating installation, contractor shall inspect supports for correct size, layout and alignment. Any inconsistencies between contract drawings and supporting structure deemed detrimental to grating placement shall be reported in writing to the architect or owner's agent prior to grating placement.

B. Install grating in accordance with shop drawings and standard installation clearances as recommended by the NAAMM Metal Bar Grating Manual.

#### C. Cutting, Fitting and Placement.

1. Perform all cutting and fitting required for installation. Grating shall be placed such that cross bars align.

2. Wherever grating is pierced by pipes, ducts and structural members, cut openings neatly and accurately to size and weld a rectangular band bar of the same height and material as bearing bars.

3. Cutouts for circular obstructions are to be at least 2" larger in diameter than the obstruction. Cutouts for all piping 4" or less shall be made in the field.

4. All rectangular cutouts are to be made to the next bearing bar beyond the penetration with a clearance not to exceed bearing bar spacing.

5. Utilize standard panel widths wherever possible.

### D. Protection of Aluminum from Dissimilar Materials:

1. Where aluminum surfaces come into contact with dissimilar metals, surfaces shall be kept from direct contact by painting the dissimilar metal with one coat of bituminous paint or other approved insulating material.

2. Where aluminum surfaces come into contact with dissimilar materials such as concrete, masonry or lime mortar, exposed aluminum surfaces shall be painted with one coat of bituminous paint or other approved insulating material.

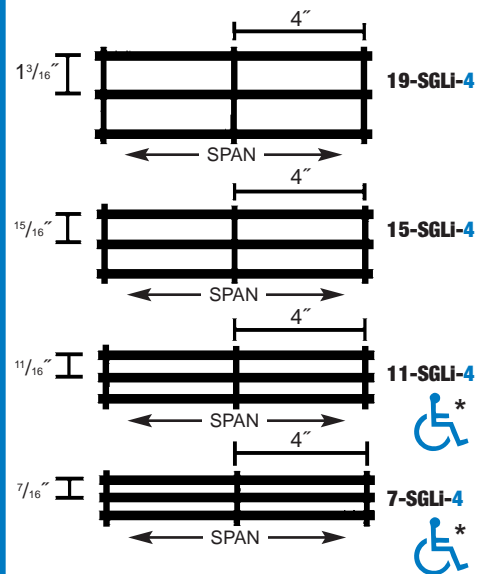
### 3.2 Grating Attachment

Use anchorage devices (saddle clips) (grating clamps) (plank clips) (plank lugs) (countersunk lands) (Z clips) or (anchor blocks) and fasteners to secure grating to supporting members or prepared openings.

### Grating Profiles Available...

#### SGLi Series - Aluminum Lite I-Bar

All profiles shown below are also available with 2" cross bar centers. Product numbers would be 19-SGLi-2, 15-SGLi-2, 11-SGLi-2 and 7-SGLi-2



\*Note: Conforms with the spacing requirements of ADA (July 1991) when installed with the elongated opening perpendicular to the dominant direction of travel. See ADA Guidelines