



## Specification for Aluminum Grating

- 1) Aluminum grating shall be fabricated of I-shaped bars, alloy 6063-T6, with swaged cross bars spaced on 4" centers. Bearing bars shall be spaced on 1 3/16" centers. Top surface of bearing bars shall be striated to provide a non-slip surface.
- 2) Grating shall be designed to support a uniform load of 200 pounds per square foot with a maximum deflection of 1/4". The maximum fiber stress shall not exceed that which is allowed by the Aluminum Association.
- 3) Standard installation clearances and tolerances shall conform to the requirements of the current Metal Bar Grating Manual published by the National Association of Architectural Metal Manufacturers.
- 4) Aluminum frames embedded in concrete shall incorporate a recess under the horizontal bearing leg to receive the hold down fasteners. The frames shall be TF1.25A thru TF2.50A as manufactured by Thompson Fabricating, LLC (Birmingham, AL).
- 5) Install aluminum clamps or clips to anchor the grating securely to supports. A minimum of 4 fasteners per panel shall be provided, unless otherwise shown on the drawings.
- 6) Cutouts for circular obstructions are to be at least 2" larger in diameter than the obstruction. Cutouts for all piping 2" in diameter or less shall be made in the field. Band all ends of grating.
- 7) Aluminum shelf angles shall be anchored to the concrete using stainless steel (type 18-8) wedge anchors.
- 8) Aluminum stair treads shall be I-bar grating type with an extruded aluminum corrugated nosing.
- 9) Paint all aluminum surfaces in contact with concrete or dissimilar metals with a shop coat of bituminous paint.