

SECTION 05 53 00 {05530}

METAL GRATINGS

{GRATINGS}

This section includes metal and FRP bar gratings and floor plates, usually supporting pedestrian or light vehicle loads, custom fabricated or of proprietary manufacture. Support framing for formed openings can be included in this section or can be specified in other sections.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at www.4specs.com, ARCAT at www.arcata.com, First Source at www.reedfirstsource.com, SpecSource at www.specsource.com, and Sweets Network at products.construction.com.

This section includes performance, proprietary, and descriptive type specifications. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at supportcenter@csrf.org to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at www.spectext.com for current product announcements.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes formed [floor] [mezzanine] [stair tread] [_____] gratings; flat surface [floor] [stair tread] plating; and perimeter closure.
- B. Related Sections:
 - 1. Section [_____-_____]: Framed concrete opening.
 - 2. Section [_____-_____]: Framed steel opening.
 - 3. Section 05 50 00 - Metal Fabrications.
 - 4. Section 05 51 00 - Metal Stairs: Framing for grating [and stair treads].
 - 5. Section 09 90 00 - Painting and Coating: Field paint finish.
- C. Related Sections:
 - 1. Section [_____-_____]: Framed concrete opening.
 - 2. Section [_____-_____]: Framed steel opening.
 - 3. Section 05500 - Metal Fabrications.
 - 4. Section 05510 - Metal Stairs and Ladders: Framing for grating [and stair treads].
 - 5. Section 09900 - Paints and Coatings: Field paint finish.

1.2 REFERENCES

List reference standards included within text of this section. Edit for Project conditions.

- A. ASTM International:
 - 1. ASTM A36/A36M - Standard Specification for Carbon Structural Steel.
 - 2. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - 3. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - 4. ASTM A666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
 - 5. A1011/A1011M-07 Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength
 - 6. ASTM B211 - Standard Specification for Aluminum and Aluminum-Alloy Bar, Rod, and Wire.
 - 7. ASTM B211M - Standard Specification for Aluminum and Aluminum-Alloy Bar, Rod, and Wire (Metric).
 - 8. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 9. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).

- B. American Welding Society:
 - 1. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination.
 - 2. AWS D1.1 - Structural Welding Code - Steel.
 - 3. AWS D1.2 - Structural Welding Code - Aluminum.

- C. Green Seal:
 - 1. GC-03 - Anti-Corrosive Paints.

- D. National Association of Architectural Metal Manufacturers:
 - 1. NAAMM MBG 531 - Metal Bar Grating Manual.
 - 2. NAAMM MBG 532 - Heavy Duty Metal Bar Grating Manual.

- E. SSPC: The Society for Protective Coatings:
 - 1. SSPC - Steel Structures Painting Manual.
 - 2. SSPC SP 1 - Solvent Cleaning.
 - 3. SSPC SP 10 - Near-White Blast Cleaning.
 - 4. SSPC Paint 15 - Steel Joist Shop Paint.
 - 5. SSPC Paint 20 - Zinc-Rich Primers (Type I - Inorganic and Type II - Organic).

1.3 PERFORMANCE REQUIREMENTS

Use this article carefully; restrict statements to identify system performance requirements or function criteria only.

Select one of the following four paragraphs.