

SECTION 05500  
METAL FABRICATIONS

## PART 1 GENERAL

## 1.1 SECTION INCLUDES:

- A. Shop fabricated ferrous metal items.
- B. Shop fabricated aluminum items.

## 1.2 REFERENCES

- A. AAMA 603.8 - Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum
- B. AAMA 605.2 - Specification for High Performance Organic Coatings on Architectural Extrusions and Panels
- C. AAMA 606.1 - Specifications and Inspection Methods for Integral Color Anodic Finishes for Architectural Aluminum
- D. AAMA 607.1 - Specification and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum
- E. AAMA 608.1 - Specifications and Inspection Methods for Electrolytically Deposited Color Anodic Finishes for Architectural Aluminum
- F. ANSI A14.3 - Ladders, Fixed, Safety Requirements
- G. ASTM A36 - Structural Steel
- H. ASTM A53 - Hot-Dipped, Zinc-coated Welded and Seamless Steel Pipe
- I. ASTM A123 - Zinc (Hot-Galvanized) Coatings on Iron and Steel Products
- J. ASTM A153 - Zinc Coating (Hot-Dip) on Iron and Steel Hardware
- K. ASTM A283 - Carbon Steel Plates, Shapes, and Bars
- L. ASTM A307 - Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength
- M. ASTM A500 - Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Round and Shapes.
- N. ASTM A501 - Hot-Formed Welded and Seamless Carbon Steel Structural Tubing.
- O. ASTM B26 - Aluminum-Alloy Sand Castings
- P. ASTM B85 - Aluminum-Alloy Die Castings
- Q. ASTM B177 - Chromium Electroplating on Steel for Engineering Use
- R. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate
- S. ASTM B210 - Aluminum-Alloy Drawn Seamless Tubes
- T. ASTM B211 - Aluminum-Alloy Bar, Rod and Wire
- U. ASTM B221 - Aluminum-Alloy Extruded Bar, Rod, Wire, Shape and Tube
- V. AWS A2.0 - Standard Welding Symbols
- W. AWS D1.1 - Structural Welding Code
- X. Florida Building Code.
- Y. SSPC (Steel Structure Painting Council) - Steel Structures Painting Council

## 1.3 SUBMITTALS FOR REVIEW

- A. Section 01300 - Submittals: Procedures for submittals
- B.

lengths.

- B. Maximum Offset Between Faces: 1/16".
- C. Maximum Misalignment of Adjacent Members: 1/16".
- D. Maximum Bow: 1/8" in 48".
- E. Maximum Deviation From Plane: 1/16" in 48".

## 2.5 FINISHES - STEEL

- A. Prepare surfaces to be primed in accordance with SSPC SP 2.
- B. Clean surfaces of rust, scale, grease, and foreign matter prior to finishing.
- C. Do not prime surfaces in direct contact with concrete or where field welding is required.
- D. Shop Prime paint items with one coat compatible with field finish.
- E. Painted finishes to be per Section 09900-Painting.
- F. Structural Steel Members: Galvanize after fabrication to ASTM A123. Provide minimum 1.25 oz/sq ft galvanized coating.
- G. Non-structural Items: Galvanize after fabricati

with concrete.

### 3.4 ERECTION TOLERANCES

- A. Maximum Variation from Plumb:  $\frac{1}{4}$ " per story, non-cumulative.
- B. Maximum Offset from True Alignment:  $\frac{1}{4}$ ".
- C. Maximum Out-of-Position:  $\frac{1}{4}$ ".

END OF SECTION