

SLOTTED ANGLE SYSTEM

PART 1 - GENERAL

1.1 SCOPE

- A. Slotted angle framing members and all associated fittings and hardware.
- B. Support for shelving, racks, and electrical, mechanical, and similar systems.

1.2 DEFINITIONS

- A. ASTM: American Society for Testing and Materials.

1.3 SUBMITTALS

- A. Submit drawings of slotted angle and accessories including associated fittings and hardware.
- B. Submit manufacturer's product data on slotted angle including, but not limited to, types, materials, finishes, gauge thickness, and hole patterns.

1.4 QUALITY ASSURANCE

- A. Manufacturers: Firms regularly engaged in the manufacture of slotted angle systems of the types required, whose products have been in satisfactory use in similar service for not less than 5 years.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Manufacturer: Subject to compliance with these specifications, slotted angle systems to be installed shall be as manufactured by ERICO, Inc. [or engineer approved equal].

2.2 REFERENCES

- A. ASTM A570 - Specification for Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality
- B. ASTM A653 - General Requirements for Steel Sheet, Zinc-Coated Galvanized by the Hot-Dip Process
- C. ASTM B633 - Specification for Electro-deposited Coatings of Zinc on Iron and Steel

2.3 STRUT CHANNELS AND COMPONENTS

- A. General: Slotted angle framing members shall be 1-5/8 inches wide in varying heights as required to meet load capacities and designs and applications indicated on the drawings.
- B. Materials and Finish: Material and finish specifications for each strut type are as follows:
 - 1. Pre-galvanized Steel: Slotted angle members shall be made from steel meeting the minimum mechanical properties of ASTM A653, Grade 33, and mill galvanized in accordance with coating designation G60 or G90. Fittings shall be manufactured from steel meeting the minimum requirements of ASTM A635, Structural Quality. All fittings and hardware shall be zinc plated in accordance with ASTM B633 (SC3 for fittings, SC1 for threaded hardware) or mill galvanized in accordance with coating designation G60 or G90.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install slotted angle as indicated; in accordance with equipment manufacturer's recommendations, and with recognized industry practices.
- B. All nuts and bolts shall be tightened to the following values:

<u>Bolt Size</u>	<u>Torque (ft-lbs)</u>
1/4 - 20	6
5/16 - 18	11
3/8 - 16	19