
SECTION 05 40 00
COLD-FORMED METAL FRAMING**PART 1 GENERAL****1.1 SUMMARY**

- A. Provide materials in accordance with the provision of this section for Cold-Formed Metal Framing shown on the drawings, as specified herein, and as needed for complete and proper installation.

1.2 REFERENCE STANDARDS

- A. ASTM C1007 - Standard Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories 2020.

1.3 SUBMITTALS

- A. Submittals manufacture's product information and installation instructions for each item of Cold-Formed metal Framing and accessories.
- B. Manufacturer's Installation Instructions: Indicate special procedures, conditions requiring special attention, and other features of note.
- C. Submit shop drawings of all metal framing, including details of connections, anchoring, and shapes. Shop drawings must be sealed by a professional engineer licensed by the State of North Carolina.

PART 2 PRODUCTS**2.1 METAL FRAMING**

- A. Manufacturers: Subject to compliance with requirements, provide products of one of the following:
 - 1. Bostwick Steel Framing Co.
 - 2. Dale Industries, Inc.
 - 3. Milcor Division, Inryco Inc.
 - 4. U.S Gypsum Co.
- B. Steel Components with each type of Metal framing require provided manufacture's standard steel runners (tracks), blocking, lintels, clips angles, shoes, reinforcements, fasteners, and accessories as recommended by manufacturer for applications indicated, as needed to provide a complete metal framing system.
- C. Materials and Finishes
 - 1. For 16-gauge and heavier units, fabricate metal framing components of structural quality steel sheet with a minimum yield point of 40,00 PSI, ASTM A 446, A 570 or A 611.
 - 2. For 18-guage and lighter units, fabricate metal framing components of commercial quality steel sheet with a minimum yield point of 33,000 PSI: ASTM A 446, A 570 or A 611.
 - 3. "C"-shape studs: Manufacture's standard load bearing steel studs of size, shape and gauge indicated with 1.625" flange and flange return lip.
 - 4. Punched Chanel Studs: Manufacturer's standard, factory punched, load bearing steel studs of size, shape, and gauge indicated, with 1.375" flange.

2.2 FABRICATION

D. Fastenings:

1. Attach similar components by welding.
2. Attach dissimilar components by welding, bolting or screw fasteners, as standard with manufacturer.
3. All welds must be full seam welds; spot welding is not permitted.

E. Wire tying of framing components is not permitted.

F. Fabrication tolerances: Fabricate panels to a maximum allowable tolerance variation from plumb, level, and true to line of 1/8" in 10'-0".

PART 3 EXECUTION

3.1 GENERAL

- A. Manufacturer's instructions: Install metal framing systems in accordance with manufacture's printed or writing instructions and recommendations, unless otherwise indicated.
- B. Install supplementary framing, blocking, and bracing in metal framing system wherever walls or partitions are indicated to support fixtures, equipment, services, casework, heavy trim and furnishing, and similar work requiring attachment to the wall or partition. Where type of supplementary support is not otherwise indicated, comply with stud manufacturer's recommendations and industry standards in each case, considering weight or loading resulting from item support.
- C. Frame wall openings larger than 2'-0" square with double stud at each jamb of frame except where more than 2 are either shown or indicated in manufacturer's instruction. Install runner tracts and jack studs above and below wall openings. Anchor tracks to jamb studs with stud shoes or by welding and space jack studs same as full studs of wall. Secure studs systems wall opening frame in manner indicated.
- D. Install horizontal stiffeners in stud system, spaced (vertical distance) at not more than 4'-6" o.c. weld at each intersection.

3.2 SITE ENVIRONMENTAL PROCEDURES

- E. Waste management: As specified in Section 01 74 00 - Construction Waste Management and as follows:
 1. Coordinate with unused materials with manufacturer for a take-back program.
 2. Set aside scrap for recycling into new product.

END OF SECTION