

SECTION 05 41 00

STRUCTURAL METAL STUD FRAMING

PART 1 GENERAL

1.01 SUBMITTALS

- A. Shop Drawings, UL and typical bracing details from the manufacturer.
- B. Product Data to include unsupported lengths and gauges.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Ceiling Suspension Main Runners: 1.5" steel channels, .0475 lb. Per foot, cold rolled.
- B. Hanger Wire: ASTM A641, Class 1 zinc coating, soft tempered, 8 gauge.
- C. Furring Members: ASTM C645 30 mil (0.0296"), hat-shaped, 7/8" deep.
- D. Steel Studs: ASTM C645, 30 mil (0.0296") x 3 5/8" deep, except as otherwise indicated on the drawings.
 1. At door jambs and for tile backing, use 30 mil (0.0296")
 2. Runners: match studs, type recommended by stud manufacturer for floor and ceiling support of studs and for vertical abutment.
- E. Deflection Track: Manufacturer's standard top runner designed to prevent cracking of gypsum board and plaster applied to interior partitions resulting from deflection of the structure above. Flanges have either V-shaped offsets that compress when pressure is applied from construction above or have slots 1 inch o.c. that allow fasteners attached to studs through the slots to accommodate structural movement by slipping.
- F. Bracing shall be the same gauge as studs.
- G. Screws shall be corrosion resistant and self tapping.
- H. Shaft Wall framing members shall be minimum 30mil (0.0296") galvanized. Shape, assembly and thicknesses shall conform with the UL assembly where shafts are required to have a fire-rated construction.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Refer to Division 1 requirements where metal stud erection will occur in occupied buildings.
- B. Install supplementary framing, fire treated blocking, and bracing to support fixtures, hardware, equipment, heavy trim, grab bars, toilet accessories, furnishings, or similar construction. Only brace to structural elements (joist, beams, etc.)
- C. Installation tolerances:
 1. Install each steel framing and furring member so that fastening surfaces do not vary more than 1/8 inch from plumb and from the plane formed by the faces of adjacent framing.
 2. Install steel framing components for suspended ceilings so that cross-furring members are level to within 1/8 inch in 12 feet as measured both lengthwise on each member and transversely between parallel members.
 3. Maximum out-of-plumb or line of framing permissible is 1/8" in 12' and 1/4" overall.
 4. Maximum out-of-square or designated line permissible is 1/8" in first 15' from corner and maximum 1/4" overall.
- D. Install steel studs 16 inches o.c. unless otherwise indicated.
- E. Stud splicing is prohibited.

- F. Do not connect or support steel framing from ducts, pipes, conduit or metal deck.
- G. Door jambs shall be doubled, and attached to one another and run full height to structure.
- H. Do not bridge structure.
- I. Coordinate with spray on fire insulation to avoid damage and major repairs.
- J. Install fire safing materials in all deflection tracks in fire rated partitions.

END OF SECTION 05 41 00