

SECTION 09 22 16
NON-STRUCTURAL METAL FRAMING

PART 1 - GENERAL

1.1 DESCRIPTION

This section specifies steel studs wall systems , wall furring, fasteners, and accessories for the screw attachment of gypsum board.

1.2 TERMINOLOGY

- A. Description of terms shall be in accordance with ASTM C754, ASTM C11, ASTM C841 and as specified.
- B. Thickness of steel specified is the minimum bare (uncoated) steel thickness.

1.3 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
 - 1. Studs, runners and accessories.
 - 2. Channels (Rolled steel).
 - 3. Screws, clips and other fasteners.

1.4 DELIVERY, IDENTIFICATION, HANDLING AND STORAGE

In accordance with the requirements of ASTM C754.

1.6 APPLICABLE PUBLICATIONS

- A. American Society For Testing And Materials (ASTM)
 - C645-09.....Non-Structural Steel Framing Members
 - C754-11.....Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products

PART 2 - PRODUCTS

2.1 PROTECTIVE COATING

Galvanize steel studs, runners (track) and furring channels, with coating designation of G-60 minimum, per ASTM 123.

Bed Storage Room E1-276 & Patient Advocacy Room A2-103

VAPAHCS Buildings 100 & 101

3801 Miranda Ave

Palo Alto, CA 94304

2.2 STEEL STUDS AND RUNNERS (TRACK)

- A. ASTM C645, modified for thickness specified and sizes as shown.
 - 1. Use ASTM A653/A653M steel, (0.0329-inch) thick bare metal.
 - 2. Runners same thickness as studs.
- B. Provide not less than two cutouts in web of each stud, approximately (12 inches) from each end, and intermediate cutouts on approximately (24-inch) centers.

2.3 FURRING CHANNELS

- A. Rigid furring channels (hat shape): ASTM C645.

2.4 FASTENERS, CLIPS, AND OTHER METAL ACCESSORIES

- A. ASTM C754, except as otherwise specified.
- B. Fasteners for steel studs thicker than 0.84 mm (0.033-inch) thick. Use ASTM C954 steel drill screws of size and type recommended by the manufacturer of the material being fastened.
- C. Clips: ASTM C841 (paragraph 6.11), manufacturer's standard items. Clips used in lieu of tie wire shall have holding power equivalent to that provided by the tie wire for the specific application.
- D. Attachments for Wall Furring:
 - 1. Manufacturers standard items fabricated from zinc-coated (galvanized) steel sheet.
- E. Power Actuated Fasteners: Type and size as recommended by the manufacturer of the material being fastened.

PART 3 - EXECUTION

3.1 INSTALLING STUDS

- A. Install studs in accordance with ASTM C754, except as otherwise shown or specified.
- B. Space studs not more than (24 inches) on center.
- C. Cut studs (1/4 to 3/8-inch) less than floor to underside of structure overhead when extended to underside of structure overhead.
- D. Openings:
 - 1. Frame jambs of openings in stud partitions and furring with two studs placed back to back or as shown.

2. Fasten back to back studs together with (3/8-inch) long Type S pan head screws at not less than (two feet) on center, staggered along webs.
3. Studs fastened flange to flange shall have splice plates on both sides approximately (2 by 3 inches) screwed to each stud with two screws in each stud. Locate splice plates at 600 mm (24 inches) on center between runner tracks.

E. Fastening Studs:

1. Fasten studs located adjacent to partition intersections, corners and studs at jambs of openings to flange of runner tracks with two screws through each end of each stud and flange of runner.
2. Do not fasten studs to top runner track when studs extend to underside of structure overhead.

F. Provide additional studs where required. Install metal backing plates, or special metal shapes as required, securely fastened to metal studs.

G. Suitably frame all openings to maintain structural support for wall:

1. Provide necessary liner fillers and shims to conform to label frame requirements.
2. Frame openings cut within a liner panel with E studs around perimeter.
3. Frame openings with vertical E studs at jambs, horizontal J runner at head and sill.

3.7 TOLERANCES

- A. Fastening surface for application of subsequent materials shall not vary more than (1/8-inch) from the layout line.
- B. Plumb and align vertical members within (1/8-inch.)
- C. Level or align ceilings within (1/8-inch.)

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