

SECTION 09 22 16
NONSTRUCTURAL METAL FRAMING

PART 1 GENERAL

1.01 REFERENCES

A. The following is a list of standards that may be referenced in this section:

1. ASTM International (ASTM):
 - a. C645, Standard Specification for Non-Load (Axial) Bearing Steel Studs, Runners (Track), and Rigid Furring Channels for Screw Application of Gypsum Board.
 - b. C754, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum.

1.02 SUBMITTALS

A. Action Submittals:

1. Product data.
2. Shop Drawings: Anchorage and bracing drawings and/or catalog information, as required by Section 01 88 15, Anchorage and Bracing, for loads shown on General Structural Notes on the Drawings.

B. Informational Submittals:

1. Anchorage and bracing calculations as required by Section 01 88 15, Anchorage and Bracing, for loads shown on General Structural Notes on the Drawings.
2. Sustainable Design: In accordance with Section 01 81 13, Sustainable Design Requirements for Non-LEED™ Projects, document sustainability performance for items listed below.
 - a. Product Data for Recycled Materials:
 - 1) A complete list of materials and quantities.
 - 2) Percentages of post-consumer and pre-consumer recycled content of all steel materials.

1.03 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to Site in manufacturer's original, unopened, undamaged containers, with labels intact clearly indicating manufacturer and material.

B. Storage:

1. Store materials inside, under cover, stacked flat, off floor.
2. Avoid overloading floor system of storage area.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. ClarkDietrich.
- B. Or equal.

2.02 MATERIALS

- A. Physical Characteristics:
 - 1. Studs, Tracks, Furring Channels, and Accessories:
 - a. ASTM C645.
 - b. Galvanized steel C-studs with 1-5/8-inch flanges and ancillary items.
 - c. Sizes as shown.
 - d. Accessories: Provide manufacturer's standard bracing, bridging, blocking, reinforcements, tie straps, holdowns, fasteners, and accessories as required for complete light gauge steel overframing and canopy system.
- B. Functional Characteristics: Furnish materials from a single manufacturer.
- C. Performance Characteristics:
 - 1. Partition Walls using Nonstructural Metal Framing: Anchor and brace wall assembly to resist minimum of 5 psf lateral load.
 - 2. Sustainable Material Requirements:
 - a. Recycled Content of Steel Products: Provide products with a minimum combined recycled content of 40 percent and a minimum post-consumer recycled content of 35 percent.

PART 3 EXECUTION

3.01 ERECTION

- A. Preparation: Provide, install, and maintain necessary scaffold, staging, trestles, planking, and temporary heating, lighting, and ventilation as necessary for duration of gypsum board work.
- B. Field Measurements: Take and record measurements before fabrication of assemblies.
- C. Layout: Align partitions as shown.
- D. Tracks: Attach metal runner tracks to floor slabs with suitable fasteners located 2 inches from each end and spaced not more than 24 inches OC.

E. Studs and Other Framing:

1. ASTM C754.
2. Following manufacturer's printed instructions, position studs vertically, engaging floor and ceiling tracks and spaced as noted on the Drawings.
3. Splices: Not allowed.
4. Place in direct contact with doorframe jambs, abutting partitions, and partition corners. Provide for anchorage of doorframes to studs.
5. Anchor all studs for shelf-walls and those adjacent to window and doorframes, partition intersections, and corners to ceiling and floor runner flanges. Securely anchor studs to jamb and head anchor clips of door or borrowed-light frames by bolt or screw attachment.
6. Over metal door and borrowed-light frames, place horizontally a cut-to-length section of runner, with a web-flanged bend at each end, and secure with one positive attachment per flange. Position a cut-to-length stud (extending to ceiling runner) at vertical panel joints over doorframe header.
7. Locate studs at abutting construction, partition intersections, and partition corners.
8. Spacing: 16 inches OC, unless otherwise required by manufacturer.
9. Doorframes and Cased Openings:
 - a. Full height double studs, No. 20-gauge minimum, secured to jamb anchors by bolts, screws, or welds.
 - b. Header Track: Secure to frame head anchors and double studs.
 - c. Provide double channel stiffeners through studs above frame and extend at least one stud space beyond each jamb.
10. Wall Mounting Accessories: Provide channels, horizontal studding, No. 16-gauge sheet 8 inches by 2 inches greater than stud spacing, or other members within walls as required to provide secure and adequate support.

- F. Leave framing, plumb, aligned, securely anchored, braced, and ready to receive gypsum board.

END OF SECTION

