

SECTION 05400 - COLD-FORMED METAL FRAMING

A. SUMMARY

1. [Exterior] [Interior] load-bearing steel-stud walls.
2. Exterior nonload-bearing steel-stud curtainwall.
3. Fabricated steel-stud wall panels.
4. Steel joists.
5. Steel trusses.
6. Exterior sheathing and air-infiltration barriers.

B. QUALITY ASSURANCE

1. Fabricator to engineer, fabricate, and erect steel framing to withstand design loads.
 - a. Design Loads: <Insert design loads and allowable deflections.>
 - b. Engage a professional engineer.

C. MATERIALS

1. Sheet: [Galvanized steel] [Prime-painted steel] [Aluminum-zinc alloy-coated steel].
2. Wall Framing: Standard C-shaped steel studs and tracks, with [punched] [unpunched] web.
 - a. Thickness: [0.0358 inch (0.91 mm)] [0.0474 inch (1.20 mm)] [0.0598 inch (1.52 mm)] [0.0747 inch (1.90 mm)] [0.1046 inch (2.66 mm)].
3. Joist Framing: Standard C-shaped steel joists and tracks, with unpunched web.
 - a. Thickness: [0.0358 inch (0.91 mm)] [0.0474 inch (1.20 mm)] [0.0598 inch (1.52 mm)] [0.0747 inch (1.90 mm)] [0.1046 inch (2.66 mm)].
4. Framing Accessories:
 - a. Supplementary framing.
 - b. Bracing, bridging, and blocking.
 - c. Web stiffeners.
 - d. Gusset plates.
 - e. Deflection track.
 - f. Stud kickers and girts.
 - g. Joist hangers and end closures.
 - h. Reinforcement plates.

5. Gypsum Sheathing: [**Gypsum sheathing board with water-resistant core**] [**Glass-mat gypsum board**].
 - a. Type: [**Regular**] [**Type X**].
6. Air-Infiltration Barrier: [**Asphalt-saturated organic felt**] [**Polyethylene sheet**] [**Laminated polyethylene sheet**] [**Polypropylene sheet**] [**Woven polyolefin sheet**].
7. Thermal Insulation: Unfaced mineral-fiber blankets.

D. INSTALLATION

1. Fasten framing by [**welding**] [**welding or screwing**].
2. Spacing:
 - a. Studs: [**12 inches (305 mm)**] [**16 inches (406 mm)**] [**24 inches (610 mm)**] [**As indicated**].
 - b. Studs: [**300 mm**] [**400 mm**] [**600 mm**] [**As indicated**].
 - c. Joists: [**12 inches (305 mm)**] [**16 inches (406 mm)**] [**24 inches (610 mm)**] [**As indicated**].
 - d. Joists: [**300 mm**] [**400 mm**] [**600 mm**] [**As indicated**].
 - e. Trusses: [**16 inches (406 mm)**] [**24 inches (610 mm)**] [**32 inches (813 mm)**].
 - f. Trusses: [**400 mm**] [**600 mm**] [**800 mm**].

E. FIELD QUALITY CONTROL

1. Testing Agency: Contractor employed.

END OF SECTION 05400