

SECTION 16190

SUPPORTING DEVICES

1. PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Conduit and Equipment Supports.
- B. Fastening Hardware.

1.2 QUALITY ASSURANCE

- A. Support systems shall be adequate for weight of equipment, conduit, and wiring.

2. PART 2 PRODUCTS

2.1 MATERIAL

- A. Support Channel: Galvanized or painted steel.
- B. Hardware: Corrosion resistant.

3. PART 3 EXECUTION

3.1 INSTALLATION

- A. Fasten hanger rods, conduit clamps, and outlet and junction boxes to building structure using expansion anchors, or beam clamps.
- B. Use toggle bolts or hollow wall fasteners in hollow masonry, plaster, or gypsum board partitions and walls; expansion anchors or preset inserts in solid masonry walls; self-drilling anchors or expansion anchor on concrete surfaces; sheet metal screws in sheet metal studs; and wood screws in wood construction.
- C. Do not fasten supports to piping, ductwork, mechanical equipment, or conduit.
- D. Do not drill structural steel members without written permission of Engineer.
- E. Fabricate supports from structural steel or steel channel, rigidly welded or bolted to present a neat appearance. Use hexagon head bolts with spring lock washers under all nuts. Repaint where necessary to make corrosion resistant.
- F. In all locations install freestanding electrical equipment on concrete pads.
- G. Install surface-mounted cabinets and panelboards with minimum of four anchors. Provide steel channel supports to stand cabinet one inch off wall.
- H. Use channels to bridge studs top and bottom to support flush-mounted cabinets and panelboards in stud walls.

END OF SECTION