

SECTION 16190
SUPPORTING DEVICES

PART 1 GENERAL

1.1 WORK INCLUDED:

- A. Conduit and equipment supports.
- B. Fastening hardware.

1.2 COORDINATION

- A. Coordinate size, shape and location of concrete pads with Section 03300.

1.3 QUALITY ASSURANCE

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

PART 2 PRODUCTS

2.1 MATERIAL

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

PART 3 EXECUTION

3.1 INSTALLATION

- A. Fasten hanger rods, conduit clamps, and outlet and junction boxes to building structure using expansion anchors, beam clamps, spring steel clips.
- 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 metal studs; and wood screws in wood construction.
- C. Do not fasten supports to piping, ductwork, mechanical equipment, or conduit.
- D. Do not use powder-actuated anchors.
- E. Do not drill structural steel members.
- F. 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.
- G. Install freestanding electrical equipment on a housekeeping pad, minimum 4" thick and 4" overhang.
- H. Install surface-mounted cabinets and panel boards with minimum of four anchors. Provide steel channel supports to stand cabinet ¾" off wall.
- I. Bridge studs top and bottom with channels to support flush-mounted cabinets and panel boards in stud walls.

END OF SECTION