

DIVISION 26 – ELECTRICAL

26 05 29 HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 1 - PRODUCTS

1.01 STEEL SUPPORTS

- A. Provide brackets, frames, and hangers fabricated from standard rolled structural steel shapes or prefabricated structural system manufactured by one of the following:
 - 1. Kindorf Electrical Products Company
 - 2. Powerstrut Division/Van Huffel Tube Corporation
 - 3. Unistrut Construction
 - 4. B-Line Systems, Inc.

- B. Provide electro-plated threaded steel rods, where required.
 - 1. 3/8-inch diameter
 - 2. Use hot dip galvanized steel on installations exposed to the weather.
 - 3. Do not use chain except where detailed or specifically required.
 - 4. Do not use perforated strap or wire.

1.02 FASTENINGS

- A. Provide necessary fastenings in accordance with the following:
 - 1. Bolts and Nuts: regular series, semi- finished, hexagon, galvanized.
 - 2. Lock Washer: medium, spring type, galvanized.
 - 3. Beam Clamps: Thomas beam and angle clamps.
 - 4. Anchors: Use 3/8-inch (minimum) toggle bolts in hollow tile and concrete block. Use 1/4-inch (minimum) Hilti HDI drop-in anchors or Hilti "Kwik Bolts" in solid masonry and concrete. Fiber, lead, and plastic are acceptable. Do not use wood plugs; do not use expansion shields or lag bolts.

PART 2 - EXECUTION

2.01 INSTALLATION

- A. No attaching supports to HVAC, Plumbing, and Mechanical Systems.

- B. Use only "U" bolt type beam clamps.

- C. For the installation of HDI drop-in anchor or "Kwik Bolts" for concrete and solid masonry construction, the manufacturer's procedure for installation and minimum spacing shall be used.

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- D. Toggle bolts acceptable for light loads on hollow masonry walls. For heavy loads on hollow masonry walls, bracket wall with steel plates and through bolts.
- E. Use sheetmetal screws or bolts for attachment to metal studs.
- F. J-boxes in steel stud construction shall be fastened to backing spanning (2) studs.
- G. Provide anchors with sufficient strength to support four times the load.
- H. Where nylon tie wraps are used in the tunnels, turn or tuck cut tails away from personnel to eliminate sharp edge hazard.

END OF SECTION