

## **SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS**

### **PART 1 - GENERAL**

#### **1.01 RELATED DOCUMENTS**

- A. This sections is a Division 26 Basic Electrical Materials and Methods section and is part of each Division 26 section making reference to electrical connections for equipment specified herein.

#### **1.02 SCOPE OF WORK**

- A. Extent of supports, anchors, sleeves and seals is indicated by drawings and scheduled and/or specified in other Division 16 sections.
- B. Types of supports, anchors, sleeves and seals specified in this section include the following:
  - 1. Clevis hangers.
  - 2. One-hole conduit straps.
  - 3. Two-hole conduit straps.
  - 4. Round steel rods.
  - 5. Steel expansion anchors.
  - 6. Toggle bolts.
  - 7. Wall and floor seals.

### **PART 2 - PRODUCTS**

#### **2.01 MANUFACTURED SUPPORTING DEVICES**

- A. Provide supporting devices which comply with manufacturer's standard materials, design and construction in accordance with published product information and as required for complete installation, and as herein specified. Where more than one type of supporting device meets indicated requirements, selection is Installer's option.
- B. Provide supporting devices of types, sizes and materials indicated, having the following construction features:
  - 1. Clevis Hangers shall be used for supporting 2-inch and larger conduit and shall be constructed of galvanized steel with 1/2-inch diameter hole for round steel rod.

2. One-Hole Conduit Straps shall be used for supporting 3/4-inch to 1-1/2-inch conduit and shall be constructed of galvanized steel.
  3. Two-Hole Conduit Straps shall be used for supporting conduit on steel racks.
- C. Provide steel anchors of types, sizes and materials required for the equipment being supported.
- D. Provide sleeves and seals of types, sizes and materials indicated with the following construction features:
1. Provide factory-assembled watertight wall and floor seals, of types and sizes indicated; suitable for sealing around conduit, pipe or tubing passing through concrete floors and walls. Construct seals with steel sleeves, malleable iron body, neoprene sealing grommets and rings, metal pressure rings, pressure clamps and cap screws.
- E. Provide cable supports with insulating wedging plug for non-armored type electrical cables in risers.
- F. Provide U-channel strut system for supporting electrical equipment, 12-gauge hot-dip galvanized steel, of types and sizes indicated and with the following fittings which mate and match with U-channel.
1. Thin-wall conduit clamps.
  2. Rigid conduit clamps.
  3. Conduit hangers.
- G. Provide pipe sleeves of one of the following:
1. Fabricate from galvanized sheet metal; round tube closed with snaplock joint, welded spiral seams or welded longitudinal joint. Fabricate sleeves from the following gauge metal: 3-inch and smaller, 20-gauge; 4-inch to 6-inch, 16-gauge; over 6-inch, 14-gauge.
  2. Fabricate from Schedule 40 galvanized steel pipe; remove burrs.

## **PART 3 - EXECUTION**

### **3.01 INSTALLATION OF SUPPORTING DEVICES**

- A. Install hangers, anchors, sleeves and seals as indicated in accordance with manufacturer's written instructions and with recognized industry practices to insure supporting devices comply with requirements. Comply with requirements of NECA and NEC for installation of supporting devices.
- B. Install hangers, supports, clamps and attachments to support piping properly from building structure. Arrange for grouping of parallel runs of horizontal conduits to be supported together on trapeze type hangers where possible. Install supports with spacings indicated and in compliance with NEC requirements.

- C. No Minerallac "Jiffy" type conduit supports shall be installed exposed below 8'-0" A.F.F. Use one-hole straps instead.

**END OF SECTION 260529**