

Section 16131

**DEVICE, PULL, JUNCTION, AND TERMINAL
BOXES AND WIREWAYS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Specifications for device, pull, terminal and junction boxes and wireways.

1.02 REFERENCES

- A. American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA).
 - 1. FB1 - Fittings and Support for Conduits and Cable Assemblies
 - 2. 250 - Enclosures for Electrical Equipment (1000 volts maximum)
- B. American National Standards Institute/National Fire Protection Association (ANSI/NFPA), NFPA70 - National Electrical Code (NEC) - Article 370 - Outlet Device, Pull and Junction Boxes, Conduit Bodies and Fittings.
- C. Underwriters Laboratories (UL):
 - 1. 50 - Safety Cabinets and Boxes
 - 2. 508 - Safety Industrial Control Equipment
 - 3. 514B - Safety Fittings for Conduit and Outlet Boxes
 - 4. 886 - Safety Outlet Boxes and Fittings for Use in Hazardous Areas

1.03 SUBMITTALS

- A. Submit the following under provisions of Section 01300 – Submittal Procedures:
 - 1. Manufacturer's cut sheets, catalog data
 - 2. Instruction for handling and storage
 - 3. Installation instructions

4. Dimensions and weights

1.04 DELIVERY, STORAGE AND HANDLING

- A. Pack and crate boxes to permit ease of handling and to provide protection from damage during shipping, handling and storage.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Sheet Metal Boxes

1. Hoffman Industrial Products
2. Pauluhn Electric Manufacturing Company
3. Hennessy
4. Tanco
5. Tejas
6. Circle A.W.

2.02 MATERIALS AND EQUIPMENT

A. Sheet Metal Boxes

1. Provide UL-approved junction and pull boxes and wireways manufactured from Type 316 stainless steel sheet metal and meeting requirements of NEMA 4X for all areas.
2. Provide enclosures with a stainless steel continuous hinge, spring loaded closure hasps and all-stainless steel hardware. All seams shall be welded and ground smooth. No sealant of any nature may be used to achieve compliance.
3. Furnish the door with neoprene gasket and provision for padlock.

B. Hardware

1. Mounting Hardware: 316 stainless steel

2. Conduit Connectors: Watertight as manufactured by Myers Hubs, or equal. All such conduit connections to sheet metal enclosures of any nature shall be equipped with such hubs. All such hubs shall be equipped with auxiliary grounding lugs that are securely interconnected to the facility grounding system.

PART 3 EXECUTION

3.01 PREPARATION

- A. Review the drawings and determine how many boxes of each kind are required and check if supplied quantity is sufficient.

3.02 INSTALLATION

- A. Boxes described in this specification shall be used both in dry and wet, corrosive areas, both inside and outside locations.
- B. Install boxes in accordance with NEC Article 370 in locations indicated on the Drawings.
- C. Install all boxes in readily accessible places to facilitate wire pulls, maintenance and repair.
- D. Plug unused conduit openings.
- E. Make conduit connections to sheet metal boxes with watertight conduit connectors.
- F. Label boxes with phenolic nameplates attached with stainless steel screws.

END OF SECTION