

**SECTION 16130**  
**NONMETALLIC FLOOR BOXES**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Nonmetallic Floor Boxes.
- B. Covers.

**1.2 RELATED SECTIONS**

- A. Section 16123 - Building Wire and Cable.
- B. Section 16140 - Wiring Devices.

**1.3 REFERENCES**

- A. NECA (INST) - NECA Standard of Installation; National Electric Contractors Association.
- B. NEMA WD 6 - Wiring Devices - Dimensional Requirements; National Electrical Manufacturers Association.
- C. NFPA 70 - National Electrical Code (NEC).
- D. UL 94 - Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
- E. UL514C - Nonmetallic Outlet Boxes, Flush-Device Boxes and Covers.

**1.4 SUBMITTALS**

- A. Submit under provisions of Section 01300.
- B. Product Data: Provide standard details and installation instructions.

**SECTION 16130**  
**NONMETALLIC FLOOR BOXES**

**PART 2 PRODUCTS**

**2.1 MANUFACTURER**

- A. Provide products offered by Carlton, 25701 Science Park Drive, Cleveland, Ohio 44122. ASD. Tel: outside of Ohio; (800) 3CARLON (322-7566), within Ohio; (216) 464-3400, TDD: (216) 831-5918. Fax: (216) 766-6444. [www.carlon.com](http://www.carlon.com)
  - 1. Substitutions will not be acceptable.

**2.2 MATERIALS**

- A. Floor Boxes - Blue or gray polyvinyl chloride (PVC)
- B. Covers - High impact thermoplastic in a variety of colors or solid brass.

**2.3 PRODUCTS**

- A. Rectangular Floor Boxes
- B. Round Floor Boxes
- C. Residential Floor Box Kits

**2.4 FABRICATION**

- A. Fabricate boxes from precision extruded polyvinyl chloride plastic.
- B. Manufacture boxes to the initial internal volume
  - 1. Rectangular - 97.4 cu. In.
  - 2. Round - 90 cu. In.
  - 3. Residential - 21 cu. In.
- C. Boxes can be cut to required height.

**SECTION 16130**  
**NONMETALLIC FLOOR BOXES**

2.5 FLOOR BOX COMPONENTS

A. Rectangular Nonmetallic Floor Boxes

1. Rectangular boxes can be joined together to form double or triple gang boxes.
2. Accepts, 1/2", 3/4", and 1" conduit.
3. Markings on side show volume in cu. In.
4. Sides are drillable.
5. Listed for concrete or wood sub-floor.

B. Round Non-Metallic Floor Boxes

1. Listed for concrete or wood sub-floor.
2. Accepts, 1/2", 3/4", and 1" conduit.

C. Residential Floor Box Kits

1. Cover plate keeps out dust and water.
2. Adjustable from 0" to 1-7/8".
3. Cover plate and adjusting mechanism are included with box.
4. Cover available in Ivory.
5. Dual receptacle outlet included with box.

D. Rectangular Floor Box Covers

1. Thermoplastic Covers
  - a. Available in single, double and triple gang.
  - b. Field reversible cover to accept carpet/tile inlay.
  - c. Available in Brown, Slate, and Caramel colors.

**SECTION 16130**  
**NONMETALLIC FLOOR BOXES**

- d. Shall have access door for device and separate access door for cable exit.
  - e. Carpet/tile flange incorporated into cover design.
2. Brass Covers
- a. Available in single, double and triple gang.
  - b. Have a gasket seal around the opening of lid and cable door opening.
  - c. Shall provide access to multi-service divider in round Carlton Floor Box.
- E. Round Floor Box Covers
1. Thermoplastic Covers
- a. Available in Caramel, Slate, Ivory, Taupe, Brown, Gold, and Chrome colors.
  - b. Shall provide access to multi-service divider in round Carlton Floor Box.
  - c. Underside shall provide two drill points for data and communication.
2. Brass Covers
- a. Available in a single outlet and duplex configuration.
  - b. Have a gasket seal around the opening of the lid.
  - c. Shall provide access to multi-service divider in round Carlton Floor Box.

**SECTION 16130**  
**NONMETALLIC FLOOR BOXES**

- F. Multi-Service Divider Kit
  - 1. Separates data/communication cables and electrical conductors in a Floor Box.
  
- G. Reducer Plugs
  - 1. Plastic fitting that enables pipe of sizes other than 3/4" and 1" to connect to Floor Box. (Supplied with the box)

**PART 3 EXECUTION**

**3.1 EXAMINATION**

- A. Verify that dimensions are correct and that installation meets NEC. Do not proceed with installation until unsatisfactory conditions have been corrected.

**3.2 Installation**

- A. Store products in manufacturer's unopened package until installation
- B. Install in accordance with manufacturer's instructions, NFPA 70, and NECA standard.
- C. Install covers, adapters, and fittings to form a complete Floor Box System.

**3.3 ADJUST AND CLEAN**

- A. Adjust and Clean prior to substantial completion of the project.

**END OF SECTION**