

## **SECTION 104400 - FIRE-PROTECTION SPECIALTIES**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Section includes fire protection specialties.

#### **1.2 ACTION SUBMITTALS**

- A. Product Data: Submit product data including construction details, material descriptions, dimensions of individual components and profiles, and finishes for fire-protection specialties.
  - 1. Fire Extinguishers: Include rating and classification.
  - 2. Cabinets: Include roughing-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type, trim style, panel style.

#### **1.3 QUALITY ASSURANCE**

- A. Source Limitations: Obtain fire extinguishers and fire-protection cabinets through one source from a single manufacturer.
- B. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Standard for Portable Fire Extinguishers."
- C. Listing: Fire extinguishers shall be UL listed with UL Listing Mark for type, rating, and classification of extinguisher.

#### **1.4 COORDINATION**

- A. Coordinate size of fire-extinguisher cabinets to ensure that type and capacity of fire extinguishers indicated are accommodated.

#### **1.5 WARRANTY**

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of portable fire extinguishers that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
  - a. Failure of hydrostatic test according to NFPA 10.
  - b. Faulty operation of valves or release levers.
2. Warranty Period: Six years from date of Substantial Completion.

## **PART 2 - PRODUCTS**

### **2.1 FIRE EXTINGUISHERS**

- A. General: Provide fire extinguishers for each fire extinguisher cabinet and at other locations indicated.
  1. Mounting Brackets: Manufacturer's standard steel, designed to secure extinguisher indicated and with plated or baked-enamel finish.
    - a. Provide brackets for extinguishers located and not located in cabinets.
- B. Multipurpose Dry-Chemical Type: UL-rated 4-A:60-B:C, 10-lb nominal capacity, in enameled-steel container.

### **2.2 FIRE-EXTINGUISHER CABINETS**

- A. General: Provide fire extinguisher cabinets of suitable size for housing fire extinguishers of types and capacities specified.
- B. Cabinet Construction: Provide manufacturer's standard box (tub), with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated. Weld joints and grind smooth. Miter and weld perimeter door frames.
  1. Fire-Rated Cabinets: Listed and labeled to meet requirements in ASTM E 814 for fire-resistance rating of wall where it is installed.
    - a. Construct fire-rated cabinets with double walls fabricated from 0.0478-inch- thick, cold-rolled steel sheet lined with minimum 5/8-inch- thick, fire-barrier material.
  2. Cabinet Metal: Enameled-steel sheet.
  3. Cabinet Mounting: Recessed unless otherwise indicated.
  4. Cabinet Trim Style: Trimless with hidden flange of same metal and finish as box that overlaps surrounding wall finish and that is concealed from view by an overlapping door.
  5. Cabinet Trim Material: Manufacturer's standard steel sheet.

6. Door Material: Manufacturer's standard steel sheet.
7. Door Glazing: Manufacturer's standard, as follows:
  - a. Tempered Float Glass: ASTM C 1048, Kind FT, Condition A, Type I, Quality q3, Class 1 (clear).
8. Door Style: Manufacturer's standard design vertical duo panel with frame with 1/4 inch-thick glass.
9. Door Construction: Fabricate doors according to manufacturer's standards, of materials indicated, and coordinated with cabinet types and trim styles selected.
10. Door Hardware: Provide manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide exposed door pull and friction latch. Provide concealed or continuous-type hinge permitting door to open 180 degrees.

C. Products and Manufacturers: One of the following:

1. Larsens Manufacturing Company; Occult Series Fire Extinguisher Cabinets, Model O-2409 with vertical duo door.
2. Potter Roemer; Dana Series Fire Extinguisher Cabinets, 7220-DV.
3. JL Industries, Inc.; Embassy Series Fire Extinguisher Cabinets, Model 5614-Contemporary V door.

## **2.3 FINISHES**

- A. General: Apply finishes in factory after products are assembled. Protect cabinets with plastic or paper covering, prior to shipment.
- B. Painted Finishes: Provide painted finish to comply with requirements indicated below for extent, preparation and type:
  1. Color: Provide color or color matches indicated, or, if not otherwise indicated, as selected by Architect from manufacturer's standard colors.
  2. Preparation: Clean surfaces of dirt, grease, and loose rust or mill scale.
  3. Field-Paintable Factory Finish: Immediately after cleaning and pretreatment, apply to surfaces indicated below, manufacturer's standard factory-applied paint system which is suitable, after deglossing, as an undercoat for field-applied paint system specified in Section 099123 "Interior Painting."
    - a. Exterior of cabinet except for those surfaces indicated to receive another finish.
    - b. Interior of cabinet.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Prepare recesses for recessed fire-protection cabinets as required by type and size of cabinet and trim style.

### **3.2 INSTALLATION**

- A. General: Follow manufacturer's printed instructions for installation.
- B. Install fire-protection specialties in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction.
  - 1. Fasten cabinets to structure, square and plumb.

### **3.3 ADJUSTING AND CLEANING**

- A. Adjust cabinet doors to operate freely without binding. Examine fire extinguishers for proper charging and tagging.
  - 1. Remove and replace damaged, defective, or undercharged units.
- B. On completion of fire-protection cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.

## **END OF SECTION**