

## **SECTION 10 4400**

### **FIRE PROTECTION SPECIALTIES**

#### **PART 1 GENERAL**

##### **1.1 SUMMARY**

- A. Work of this Section consists of fire protection specialties, and includes but is not limited to the following:
  - 1. Hand portable fire extinguishers.
  - 2. Fire extinguisher cabinets.
  - 3. Mounting brackets.
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. Other Documents and Sections that directly relate to work of this Section include, but are not limited to:
  - 1. General provisions of the Contract, including General and Supplementary Conditions, and Division 01 General Requirements Specification Sections.
  - 2. Section 06 1000 - ROUGH CARPENTRY.
  - 3. Section 09 2116 - GYPSUM BOARD ASSEMBLIES.
  - 4. Division 21, FIRE PROTECTION.

##### **1.2 SUBMITTALS**

- A. Product Data: Submit manufacturer's printed descriptions of materials and systems, performance criteria, use limitations, recommendations and installation information for each manufactured product specified or called out by the Drawings and this Section.
  - 1. Hand Portable Fire Extinguishers: Manufacturer's Data for each type of required Hand Portable Fire Extinguisher with all related details, and recommended operation manuals.
  - 2. Fire Protection Cabinets and Wall Brackets: Include roughing-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type, trim style, and panel style.
- B. Samples
  - 1. Initial for Selection: For each type of hand portable fire extinguisher and fire protection cabinet indicated.
  - 2. Items Chosen for Final Selection: For each type of exposed finish required, prepared on samples of size indicated below:
    - a. Size: 6 by 6 inches square.
- C. Product Schedule: For fire protection cabinets. Coordinate final fire protection cabinet schedule with hand portable fire extinguisher schedule to ensure proper fit and function.
- D. Quality Assurance Submittals
  - 1. Design Data: Fire-Rated, Fire Protection Cabinets
  - 2. Test Reports.
  - 3. Certificates
  - 4. Manufacturer's Instructions

### 1.3 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced a minimum five (5) years in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance.
- B. Regulatory Requirements: Semi-recessed fire extinguisher cabinets shall comply with ADA requirements for maximum cabinet projection for corridors.
  - 1. Fire Rated Extinguisher Cabinets shall be certified by Warnock-Hersey verifying compliance with ASTM E814 (UBC standard 43-B)
  - 2. Hand Portable Fire Extinguishers: Provide UL listing information and FM approval where applicable for extinguisher type.
- C. Source Limitations: Provide hand portable fire extinguishers, and cabinets from a single manufacturer.

### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in unopened factory labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage.
- B. Sequence deliveries to avoid delays, but minimize on-site storage.

### 1.5 WARRANTY

- A. Contractor shall provide manufacturer's warranty against defective materials for a period of five (5) years.

## PART 2 PRODUCTS

### 2.1 FIRE EXTINGUISHERS

- A. Extinguishers: Filled, charged, pressurized, tagged, dated, and rechargeable.
  - 1. Basis-of-Design: JL Industries/Activar
    - a. Listing: Underwriters Laboratories.
    - b. Capacity: Ten pounds.
    - c. Cylinder Material and Finish: Red enameled steel.
    - d. Extinguishing Agent: 2A-10-B-C.

### 2.2 CABINETS

- A. Basis-of-Design: Embassy Series, recessed cabinet with stainless steel finish, vertical duo style door.

### 2.3 MOUNTING BRACKETS

- A. Provide manufacturer's standard bracket designed to prevent accidental dislodgment of extinguisher, of proper size for type and capacity of extinguisher indicated, in manufacturer's standard plated finish.
  - 1. Provide brackets for extinguishers not located in cabinets and for those located in cabinets, where indicated or required.

## 2.4 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

## 2.5 STAINLESS-STEEL FINISHES

- A. General: Remove or blend tool and die marks and stretch lines into finish. Grind and polish surfaces to produce uniform, directionally textured polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
- B. Bright, Directional Polish: No. 4 finish.

# PART 3 EXECUTION

## 3.1 INSTALLATION

- A. Installation of fire extinguishers at a standard mounting height of 48 inches above the finished floor to the top of the extinguisher unless otherwise shown on the drawings. In no case shall the top of an extinguisher be higher than 60 inches above finished floor or the bottom of an extinguisher closer than 4 inches above finished floor in accordance with requirements in NFPA 10.
- B. Securely fasten mounting brackets, fire extinguisher cabinets, signs, and other accessories to the structure square, plumb, and in compliance with the manufacture's instructions.

**END OF SECTION**

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