

SECTION 10 44 00
FIRE PROTECTION SPECIALTIES AND SAFETY EQUIPMENT

PART 1 GENERAL

1.01 REFERENCES

- A. The following is a list of standards which may be referenced in this section:
 - 1. National Fire Protection Association (NFPA): 10, Standard for Portable Fire Extinguishers.
 - 2. National Institute for Occupational Safety and Health (NIOSH).
 - 3. Occupational Safety and Health Administration (OSHA).
 - 4. UL: Fire Protection Equipment Directory.

1.02 PERFORMANCE REQUIREMENTS

- A. Conform to NFPA 10 and applicable code.
- B. Provide extinguishers classified and labeled by UL for purpose specified and indicated.

1.03 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Drawings:
 - a. Fire Extinguishers: Manufacturer's product data for each item, including sizes, ratings, UL listings, or other certifications, and mounting information.
 - b. Product Data: Extinguisher operational features, color and finish, and anchorage details.
- B. Informational Submittals:
 - 1. Manufacturer's Installation Instructions: Special criteria and wall opening coordination requirements.
 - 2. Manufacturer's Certificate, in accordance with Section 01 67 00, Product Requirements.
 - 3. Operation and Maintenance Data: Submit test, refill or recharge schedules and recertification requirements.

1.04 QUALITY ASSURANCE

- A. Perform Work in accordance with State of Arizona standard.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 67 00, Product Requirements: Environmental conditions affecting products onsite.
- B. Do not install extinguishers when ambient temperatures are capable of freezing extinguisher ingredients.

PART 2 PRODUCTS

2.01 PORTABLE FIRE EXTINGUISHERS

- A. Physical Characteristics:
 - 1. Multipurpose Hand Extinguisher (F. Ext-1):
 - a. Tri-class dry chemical extinguishing agent.
 - b. Pressurized, red enameled steel shell cylinder.
 - c. Activated by top squeeze handle.
 - d. Agent propelled through hose or opening at top of unit.
 - e. For use on A, B, and C class fires.
 - f. Minimum UL Rating: 4A-60B:C, 10-pound capacity.
 - 2. Carbon Dioxide Hand Extinguisher (F. Ext-2):
 - a. Carbon dioxide.
 - b. Pressurized, red enameled steel shell cylinder.
 - c. Activated by top squeeze handle.
 - d. Agent propelled through hose and spreader nozzle.
 - e. For use on B and C class fires.
 - f. Minimum UL Rating: 10B:C, 15-pound capacity.
- B. Functional Characteristics: None.
- C. Performance Characteristics:
 - 1. Conform to NFPA 10 for fire extinguishers.
 - 2. Furnish fire extinguishers and cabinets from one manufacturer.
 - 3. UL listed, charged and ready for service.

2.02 FIRE EXTINGUISHER CABINETS

- A. Physical Characteristics:
 - 1. Extinguisher Cabinet Type: Semi-recessed. Sized to accommodate accessories.
 - 2. Metal: Formed sheet steel, factory finish; 0.036 inch thick base metal.
 - 3. Trim Type: Flat, square edge.
 - 4. Door: 0.016 inch thick, reinforced for flatness and rigidity; latch access.
 - 5. Door Glazing: Plastic, clear, 1/8-inch thick acrylic.

6. Cabinet Mount Hardware: Appropriate to cabinet and wall type.
7. Form cabinet enclosure with right angle inside corners and seams.
8. Predrill for anchors.
9. Hinge doors for 180-degree opening with continuous piano hinge. Furnish nylon catch.
10. Weld, fill, and grind components smooth.
11. Glaze doors with resilient channel gasket glazing.
12. Finishing Cabinet Exterior Trim and Door: Factory finished, white color.
13. Finish Cabinet Interiors: Factory finished, white color.

B. Functional Characteristics: None.

C. Performance Characteristics: None.

2.03 FIRST-AID CABINETS AND SUPPLIES

A. Physical Characteristics:

1. Cases:
 - a. Enameled metal or break-resistant plastic.
 - b. Carrying handles.
 - c. Made to hang on wall.
2. Supplies:
 - a. General purpose type, coverage for wound treatment and protection, aches, pains, and burns.
 - b. Quantities:
 - 1) Administration Facility: 500 minimum number of pieces to serve 50 people minimum.
 - 2) Maintenance Facility: 150 minimum number of pieces to serve 25 people minimum.
 - 3) Process Facilities: 100 minimum number of piece to serve 10 people minimum.

B. Functional Characteristics: None.

C. Performance Characteristics: None.

2.04 ACCESSORIES

A. Physical Characteristics:

1. Extinguisher Brackets: For hand extinguishers not located in cabinets, furnish heavy-duty, formed steel with white enamel brackets with clip-together strap for wall mounting.

2. Graphic Identification: Provide graphic identification marking for each fire extinguisher type. OSHA approved pictorial markings to indicate the extinguisher uses and nonuses on a single label.
 3. Fasteners: Furnish necessary screws, bolts, brackets, and other fastenings of suitable type and size to secure items of fire and safety equipment in position.
 - a. Metal expansion shields for machine screws at concrete and masonry.
 - b. Interior: Rust-resistant.
- B. Functional Characteristics: None.
- C. Performance Characteristics: None.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install where indicated or directed and in accordance with manufacturer's recommendations.
- B. Provide adequate backing for mounting surfaces.
- C. Place extinguishers and accessories on wall brackets.

3.02 PORTABLE FIRE EXTINGUISHERS AND CABINETS

- A. Provide at locations shown or as directed by Contracting Officer.
- B. Mount hangers securely in position, following manufacturer's recommendations.
- C. Install wall brackets and cabinets, maximum 48 inches from finished floor to top of extinguisher handle.

3.03 FIRST-AID CABINETS AND SUPPLIES (FAC)

- A. Provide at locations shown or where directed by Contracting Officer.

END OF SECTION