

**SECTION 10 44 00**  
**FIRE PROTECTION SPECIALITIES**

**PART 1 GENERAL**

**1.1 SUMMARY**

- A. The Work required under this Section consists of all labor, material and related items necessary to complete the Work, including:
  - 1. Fire extinguishers
  - 2. Fire blankets
  - 3. Cabinets
  - 4. Accessories

**1.2 RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and General Requirements (Division 1) apply to work in this section
- B. Section 01 77 00 - Contract Closeout
- C. Section 01 33 00 – Submittals Procedures

**1.3 QUALITY ASSURANCE**

- A. Conform to NFPA 10 requirements for all portable fire extinguishers and fire blankets.
- B. Use skilled workers thoroughly trained and experienced in the crafts and are familiar with the specifications and the methods needed for proper performance of the work in this section.
- C. Provide fire extinguishers, cabinets, fire blankets, and accessories by single manufacturer.
  - 1. The identification of the listing and labeling organization, the fire test, and the performance standard that the fire extinguisher meets or exceeds shall be clearly marked on each fire extinguisher.

**1.4 REFERENCES**

- A. UL 92-Fire Extinguisher & Booster Hose
- B. UL 154 – Carbon-Dioxide Fire Extinguishers
- C. UL 299 – Dry Chemical Fire Extinguishers
- D. UL 626 – Water Fire Extinguishers
- E. UL 711 - Rating and Fire Testing of Fire Extinguishers
- F. UL 1093 – Standard for Halogenated Agent Fire Extinguishers
- G. NFPA 10 – Standard for Portable Fire Extinguishers
- H. NFPA 2001, Standard on Clean Agent Fire Extinguishing Systems
  - 1. Portable fire extinguishers used to comply with this standard shall be listed and labeled and meet or exceed all the requirements of Fire Test Standards UL 711
- I. FBC - Florida Building Code
- J. FFPC - Florida Fire Prevention Code

**1.5 SUBMITTALS**

- A. Submittals for review
  - 1. Shop Drawings: Indicate cabinet physical dimensions, rough-in measurements for recessed cabinets, wall bracket mounting measurements, and locations.
    - a. Dimension drawings to depict the space required for these items, and their interface with the work of other trades.
  - 2. Product Data:
    - a. Provide extinguisher operational features, color, and finish, anchorage details.
    - b. Manufacturer's brochure, specifications, and other data needed to prove compliance with the specified requirements.

- c. Manufacturers recommended installation procedures, which will become the basis for accepting or rejecting actual installation procedures used on the Work.
  - d. Manufacturer's Installation Instructions: Indicate special criteria and any wall opening coordination requirements.
- B. Submittals at project closeout
- 1. Maintenance Data: Include test, refill, or recharge schedules and re-certification requirements.
- 1.6 REGULATORY REQUIREMENTS
- A. Conform to referenced code for requirements for extinguishers, fire blankets, and cabinets.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURERS**

- A. The following manufacturers shall be considered, providing their product equals or exceeds the quality specified; and they can provide products of the type, size, function, and arrangement required:
  - 1. Larsen's Manufacturing Co. <http://www.larsensmfg.com>
  - 2. Potter Roemer <http://www.potterroemer.com>
  - 3. J.L. Industries, Inc. <http://www.jlindustries.com>
- B. Other manufacturer's product may be considered.
  - 1. The "Substitution Request Form" and complete technical data for evaluation must accompany requests for Architect's approval.
  - 2. All materials for evaluation must be received at least 10 days prior to bid due date.

### **2.2 EXTINGUISHERS**

- A. Multi-purpose Dry Chemical Type: UL 299, Enameled steel tank with pressure gauge size and classification as scheduled, or if not scheduled, provide 2A-10BC units.
- B. Water Type: UL 626, Stainless steel tank pressurized, including hose and nozzle, size and classification as scheduled, or if not scheduled, provide 2A units.
- C. Wet Chemical Foam Type: UL 299, designed to meet K class listing, Stainless steel tank with pressure gage, size and classification as scheduled.
- D. Carbon Dioxide Type: UL 154, Stainless steel tank with pressure gage size and classification as scheduled, or if not scheduled, provide 10-BC units.
- E. Halogenated Type: UL 1093, Halotron 1, Stainless steel tank with pressure gage, size, and classification as scheduled, or if not scheduled, provide 10BC units.
- F. Extinguisher Finish:
  - 1. Multi-purpose units: Provide heavy-duty, DOT steel cylinders with corrosion and impact resistant polyester/epoxy paint finish.
  - 2. Gaseous and wet chemical units: Provide stainless steel, satin chrome finish.

### **2.3 CABINETS**

- A. Metal: Use a formed sheet steel, galvanized 18-gage thick base metal.
- B. Configuration: Recessed or semi-recessed type, per drawing details and locations, sized to accommodate required extinguishers, combination fire extinguisher and fire blanket cabinet and accessories.
- C. Trim Type: flush for recessed cabinets, rounded corners for semi-recessed or surface mounted unit.
- D. Door: 18-gauge thick, reinforced for flatness and rigidity; latch with full glass access.
- E. Door Glazing: Use clear plastic, 1/8" thick acrylic.
- F. Cabinet Mounting Hardware: Appropriate to cabinet and extinguisher size and weight.

School District of Palm Beach County

Project Name

SDPBC Project No.

- G. Form cabinet enclosure with right angle inside corners and seams.
    - 1. Form perimeter-trim and door stiles.
  - H. Pre-drill the unit for anchors and accessories.
  - I. Hinge doors for 180° opening with continuous piano hinge.
    - 1. Provide nylon catch.
  - J. Weld, fill, and grind components smooth.
  - K. Glaze doors with resilient channel gasket glazing.
  - L. Cabinet Exterior Trim and Door Finish: Satin chrome finish with red, silk-screened verbiage "FIRE EXTINGUISHER".
  - M. -Cabinet interior finish shall be White enamel.
- 2.4 ACCESSORIES
- A. Fire Blanket: Fire retardant treated wool red color 62 x 84 inch size.
  - B. Extinguisher Brackets: Formed steel chromed finish.
  - C. Use silk-screened graphic identification.

### **PART 3 EXECUTION**

#### **3.1 INSPECTION:**

- A. Verify all rough openings, dimensions and clearances are the correct size and in the correct location prior to installation.
- B. Examine the areas and conditions of the work in this Section.
  - 1. Correct conditions detrimental to timely and proper completion of the Work.
  - 2. Do not proceed until unsatisfactory conditions are correct.
- C. Verify servicing, charging and tagging of all fire extinguishers.

#### **3.2 INSTALLATION**

- A. Provide occupancy hazard protection with fire extinguishers suitable for such Class A, B, C, D, or K fire potentials as might be present and shown on the drawings and schedules.
- B. On each floor level, install fire extinguishers in accordance with NFPA 10.
- C. Coordinate as required with other trades to assure proper and adequate provision in the work of those trades for interface with the work of this Section.
- D. Install cabinets plumb and level in wall openings in strict accordance with NFPA 10, the original design, the approved Shop Drawings and the manufacturer's recommended installation procedures as approved by the Architect and authorizing agencies, anchoring all components firmly into position for long life under hard use.
  - 1. Secure rigidly in place.
- E. Do not install extinguishers until Substantial Completion inspection date.
  - 1. Place extinguishers and accessories in cabinets or on wall brackets.
- F. Inspection tags shall be current as of the date of Substantial Completion and good for 1-year.

END OF SECTION