

## SECTION 10 44 00 – FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

### PART 1 - GENERAL

#### 1.1 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain extinguishers and cabinets from one source from a single manufacturer.
- B. NFPA Compliance: Fabricate and label fire extinguishers to comply with the codes listed in the *Codes, Standards, and Regulations* document within these *Standards*.
- C. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.

#### 1.2 SUBMITTALS

- A. Product Data:
  - 1. Product data for each type of product specified.
  - 2. For fire extinguisher cabinets include rough-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type and materials, trim style, door construction, panel style, and materials.
- B. Samples:
  - 1. Samples for initial selection purposes in form of manufacturer's color charts showing full range of colors available for those units with factory-applied color finishes.
  - 2. Samples for verification purposes of each type of metal finish required, prepared on metal samples of same thickness and alloy indicated for final unit of Work.
  - 3. Where finishes involve normal color and texture variations, include sample sets showing full range of variations expected.

### PART 2 - PRODUCTS

#### 2.1 GENERAL

- A. All materials shall meet or exceed all applicable referenced standards, federal, state and local requirements, and conform to codes and ordinances of authorities having jurisdiction.

#### 2.2 FIRE EXTINGUISHERS

- A. Provide fire extinguishers for each extinguisher cabinet and other locations indicated, in colors and finishes selected by AE from manufacturer's standard, that comply with authorities having jurisdiction.
- B. Provide fire extinguisher types as follows using fire extinguisher schedule on Drawings:
  - 1. Multi-Purpose Dry Chemical Type: UL Rated 2A-10BC, 5 lb. nominal capacity, in enameled steel container, for Class A, B, and C fires (Use requires special approval by Owner).

- a. Amerex Model B500/B500T
  - b. Ansul Sentry Model A05
  - c. Buckeye Model 5 ABC
2. Multi-Purpose Dry Chemical Type: UL Rated 4A-60BC, 10 lb. nominal capacity, in enameled steel container, for Class A, B, and C fires (Use requires special approval by Owner).
    - a. Amerex Model B456
    - b. Ansul Sentry Model AA10S
    - c. Buckeye Model 10 TALL ABC
  3. Stored-Pressure Wet Chemical Type: UL-rated 2A:K, 6-liters nominal capacity, in stainless steel container with pressure-indicating gauge.
    - a. Amerex Model B260
    - b. Ansul Model K01-2
    - c. Buckeye Model WC- 6 Liter
  4. Carbon Dioxide Type: UL rated 5 BC, 5 lb nominal capacity, in manufacturer's standard enameled metal container.
    - a. Amerex Model 322
    - b. Ansul Model CD05-1
    - c. Buckeye Model 5CD
  5. Carbon Dioxide Type: UL rated 10 BC, 10 lb nominal capacity, in manufacturer's standard enameled metal container.
    - a. Amerex Model 330
    - b. Ansul Model CD10-1
    - c. Buckeye Model 10CD
  6. Carbon Dioxide Type: UL rated 15BC, 15 lb nominal capacity, in manufacturer's standard enameled metal container
    - a. Amerex Model 331
    - b. Ansul Model CD15-1
    - c. Buckeye Model 15CD
  7. Halotron Type: UL rated 1A:10BC, 11 lb nominal capacity, in enameled steel container with pressure indicating gauge.
    - a. Amerex Model 397
    - b. Ansul Model FE09
    - c. Buckeye Model 11
  8. Halotron Type: UL rated 2A:10 BC, 15 1/2 lb nominal capacity, in enameled steel container with pressure indicating gauge.
    - a. Amerex Model 398
    - b. Ansul Model FE13

c. Buckeye Model 15

- C. Extinguisher Drawing Schedule: Provide the following fire extinguishers, brackets, and cabinets at locations indicated:
1. Type FE-1: Bracket mounted 2A-10BC dry chemical.
  2. Type FE-2: In- cabinet 2A-10BC dry chemical.
  3. Type FE-3: Bracket mounted 2A Stored-Pressurized water extinguisher.
  4. Type FE-4: In-cabinet 2A Stored-Pressurized water extinguisher.
  5. Type FE-5: Bracket mounted 2AK 6-lites Stored-Pressurized Wet Chemical extinguisher.
  6. Type FE-6: Bracket mounted 5-BC Carbon Dioxide extinguisher.
  7. Type FE-7: In-cabinet 5-BC Carbon Dioxide extinguisher.
  8. Type FE-8: Bracket mounted 10-BC Carbon Dioxide extinguisher.
  9. Type FE-9: In-cabinet 10-BC Carbon Dioxide extinguisher.
  10. Type FE-10: Bracket mounted 15-BC Carbon Dioxide extinguisher.
  11. Type FE-11: In-cabinet 15-BC Carbon Dioxide extinguisher.
  12. Type FE-12: Bracket mounted 5-BC Halotron extinguisher.
  13. Type FE-13: In-cabinet 5-BC Halotron extinguisher.
  14. Type FE-14: Bracket mounted 2A-10BC Halotron extinguisher.
  15. Type FE-15: In-cabinet 2A-10BC Halotron extinguisher.
  16. Type FE-16: Cabinet mounted 5BC Carbon Dioxide installed side by side with a 2A Stored-Pressurized water extinguisher.

## 2.3 MOUNTING BRACKETS

- A. Brackets: Designed to prevent accidentally dislodging extinguisher, of sizes required for type and capacity of extinguisher indicated.
1. Provide manufacturer's standard metal brackets for extinguishers not located in cabinets.

## 2.4 FIRE EXTINGUISHER CABINETS

- A. Provide fire extinguisher cabinets where indicated and from the same manufacturer as the extinguishers. Provide sizes required for housing specified fire extinguishers, and as follows:
- B. Construction: Manufacturer's standard enameled steel box, 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.
- C. Fire Rated Cabinets: UL listed with UL Listing Mark with rating of wall where it is installed.
- D. Cabinet Type: Suitable for mounting conditions indicated of the following types:
1. Recessed: Cabinet box (tub) fully recessed in walls of sufficient depth to suit style of trim indicated.

- a. Larsen's Architectural Series 2720-R and FS 2720-R
    - b. J.L. Industries 4015 and 4015 FX
  - 2. Surface Mounted: Cabinet box (tub) fully exposed and mounted directly on wall. (Use must be approved by Owner.)
    - a. Larsen's Architectural Series 2720-SM and FS 2720-SM
    - b. J.L. Industries 4013 and 4013 FX
  - 3. Semi-recessed: Cabinet box (tub) partially recessed in walls of shallow depth. (Use must be approved by Owner)
    - a. Larsen's Architectural Series 2720-RL (2-1/2" Trim Style) and FS 2720-RL
    - b. Larsen's Architectural Series 2720-RM (4-1/2" Trim Style) and FS 2720-RM
    - c. J.L. Industries 4017 and 4017FX
- E. Trim Style: Fabricate trim in one piece with corners mitered, welded, and ground smooth.
- 1. Trimless with hidden flange of same metal and finish as box (tub) that overlaps surrounding wall finish and is concealed from view by an overlapping door.
  - 2. Exposed Trim: One piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend).
    - a. Square edge trim with 1/4 to 5/16 inch backbend depth.
    - b. Rolled edge trim with 1-1/4 inch backbend depth.
    - c. Rolled edge trim with 2-1/2 inch backbend depth.
    - d. Rolled edge trim with 4-1/2 inch backbend depth.
    - e. Trim Metal: Of same metal and finish as door.
    - f. Trim Metal: Enameled steel.
- F. Door Material and Construction: Manufacturer's standard door construction, of material indicated, coordinated with cabinet types and trim styles selected.
- 1. Cold-Rolled Steel: Solid, white baked acrylic enamel, which can be used either as a finish or prime coat. Door shall include lettering.
- G. Identify fire extinguisher in cabinet with FIRE EXTINGUISHER lettering applied to door vertically. Provide lettering to comply with authorities having jurisdiction for letter style, red in color, size, spacing, and location.
- H. Identify bracket mounted extinguishers with FIRE EXTINGUISHER in red letter decals applied to wall surface. Use letter size, style, and location as selected by AE.
- I. Door Style: Manufacturer's standard design.
- 1. Solid Panel: Full flush opaque panel of material indicated.
- J. Door Hardware:
- 1. Provide manufacturer's standard door operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide concealed or continuous type hinge permitting door to open 180 deg.

2. Special Requirement: Provide recessed concealed handle with cam action latch.

## 2.5 FINISHES FOR FIRE EXTINGUISHER CABINETS, GENERAL

- A. Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying strippable, temporary protective covering prior to shipping.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Installation shall meet or exceed all applicable federal, state and local requirements, referenced standards and conform to codes and ordinances of authorities having jurisdiction.
- B. All installation shall be in accordance with manufacturer's published recommendations.
- C. Install in locations and at mounting heights indicated or, if not indicated, at heights to comply with applicable regulations of governing authorities.
  1. Prepare recesses in walls for fire extinguisher cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.
  2. Fasten mounting brackets and fire extinguisher cabinets to structure, square and plumb.

END OF SECTION **10** 44 00

This section of the *U of I Facilities Standards* establishes minimum requirements only.  
It should not be used as a complete specification.