

SECTION 10520

FIRE EXTINGUISHERS AND CABINETS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fire extinguishers.
2. Fire extinguisher cabinets; non-fire-rated.
3. Fire extinguisher cabinets; fire-rated.
4. Fire extinguisher mounting brackets.

B. Related Sections:

1. Section 07840 - Firestopping: Firestopping sealants at fire-rated cabinets.
2. Section 09250 - Gypsum Board Assemblies: Fire extinguisher cabinets installed in drywall partitions.

1.2 REFERENCES

A. Industry Standards: The Industry Standards listed below refer to the latest date of issue or editions, unless otherwise indicated.

1. NFPA 10 - Standard for Portable Fire Extinguishers; National Fire Protection Association.
2. UL (FPED) - Fire Protection Equipment Directory; Underwriter's Laboratories, Inc.
3. ADA Accessibility Guidelines - Criteria for wall projection of fire extinguisher cabinets
4. ASTM E-814 - Test Method for Fire Tests of Through-Penetration Fire Stops.

1.3 SUBMITTALS

A. Product Data: Submit 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, and panel style.

B. Samples: Submit 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. Where finishes involve normal color and texture variations, include sample sets showing full range of variations expected.

1.4 QUALITY ASSURANCE

A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Standard for Portable Fire Extinguishers".

- B. **Fire Extinguishers:** Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.
- C. **Single-Source Responsibility:** Obtain fire extinguishers and cabinets from one source from a single manufacturer.
- D. **Fire Resistance:** Comply with ASTM E-814 for fire-resistive wall performance where necessary.
- E. **ADAAG Compliance:** Comply with ADAAG on maximum cabinet projection of 4" in corridors where necessary.

PART 2 - PRODUCTS

2.1 FIRE EXTINGUISHERS

- A. **Fire Extinguishers - Multipurpose Dry Chemical Type:** UL-rated 3A-40B:C, 5-lb.; in red enameled steel container.
- B. **Approved Products/Manufacturers:**
 - 1. "MP5-A"; LARSEN'S MANUFACTURING COMPANY.
 - 2. "Cosmic 5X"; J.L. INDUSTRIES.
 - 3. "3005- 3"; POTTER ROEMER, INC.

2.2 FIRE EXTINGUISHER CABINETS

- A. **Non-Fire-Rated, Fully-Recessed Cabinets:**
 - 1. Based on LARSEN'S "Occult Series"
 - 2. Cabinet Type: Fully recessed.
 - 3. Tub: Manufacturer's standard cold-rolled enameled steel box, $\frac{3}{4}$ " flange, white epoxy coated interior.
 - a. Inside Box Dimensions: 24" x 9 $\frac{1}{2}$ " x 6".
 - b. Outside Flange Dimensions: 25 $\frac{1}{2}$ " x 11".
 - c. Outside Door Dimensions: 25 $\frac{3}{4}$ " x 11 $\frac{1}{4}$ ".
 - d. Rough Opening Dimensions: 24 $\frac{1}{2}$ " x 10" x 6 $\frac{1}{4}$ "
 - 4. Door Material: U.S. #4 satin stainless steel door.
 - 5. Door Type: Solid.
 - a. "FIRE EXTINGUISHER" lettering in color as selected by Architect
 - b. Lettering shall be ;Type A as manufactured by Larsen's
- B. **Fire-Rated, Fully-Recessed Cabinets:**
 - 1. Based on LARSEN'S "Occult Series"
 - 2. Cabinet Type: Fully recessed.
 - 3. Tub: Manufacturer's standard cold-rolled enameled steel box, $\frac{3}{4}$ " flange, white epoxy coated interior.
 - a. Inside Box Dimensions: 24" x 9 $\frac{1}{2}$ " x 6".

- b. Outside Flange Dimensions: 27" x 12 ½"
 - c. Outside Door Dimensions: 27 ¼" x 12¾"
 - d. Rough Opening Dimensions: 26" x 11 ½" x 6 ⅞"
- 4. Door Material: U.S. #4 satin stainless steel door.
- 5. Door Type: Solid.
 - a. "FIRE EXTINGUISHER" lettering in color as selected by Architect
 - b. Lettering shall be ;Type A as manufactured by Larsen's
- C. **Non-Fire-Rated, Semi-Recessed Cabinets (to be used only at Breakroom 107):**
 - 1. Based on LARSEN'S "Architectural Series"
 - 2. Cabinet Type: Semi recessed, 1-1/2" projection.
 - 3. Trim: Square Trim
 - 4. Tub: Manufacturer's standard cold-rolled enameled steel box, ¾" flange, white epoxy coated interior.
 - a. Inside Box Dimensions: 24" x 9 ½" x 5".
 - b. Outside Trim Dimensions: 27½".x 13"
 - c. Rough Opening Dimensions: 25" x 10½" x 4"
 - 5. Door Material: U.S. #4 satin stainless steel door.
 - 6. Door Type: Solid.
 - a. "FIRE EXTINGUISHER" lettering in color as selected by Architect
 - b. Lettering shall be ;Type A as manufactured by Larsen's
- D. **Approved Products/Manufacturers:**
 - 1. "Occult Series", LARSEN'S.
 - 2. "Embassy Series"; J.L. INDUSTRIES.
 - 3. Prior approved equal

2.3 MOUNTING BRACKETS

- A. **Wall-Mounted Fire Extinguisher Brackets:** Provide brackets designed to prevent accidental dislodgement of extinguisher, of sizes required for type and capacity of extinguisher indicated.
 - 1. Location: Provide brackets for extinguishers not located in cabinets where indicated on Drawings.
 - 2. Finish: Manufacturer's standard baked enamel.
 - 3. Location of Use: Provide brackets for each extinguisher not located in an extinguisher cabinet.
 - 4. Identify extinguisher locations with red lettering "FIRE EXTINGUISHER" applied to mounting surface. Letter size, style, and location as selected by the Architect.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. **Install items** in locations and at mounting heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.
- B. **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.
- C. **Securely fasten** mounting brackets and fire extinguisher cabinets to structure, square and plumb, to comply with manufacturer's instructions.
- D. **Bracket-Mounted Extinguishers:** Where exact location of bracket-mounted fire extinguishers is not indicated, locate as directed by Architect.

3.2 COMPLETION

- A. **Extinguishers:** Keep extinguishers in locked storage until just prior to inspection for acceptance; obtain signed receipt from Owner's representative and place extinguishers in designated locations, unless instructed to maintain in storage.
 - 1. Verify that certification tags are attached to each extinguisher.
 - 2. Replace or recharge, and re-certify, extinguishers that were discharged during construction period, either accidentally or in an emergency.
- B. **Cabinets:** All cabinets shall be properly located and rigidly secured, plumb and level. Clean exposed surfaces inside and outside. Remove and replace items, which are damaged and defective and which cannot be acceptably repaired.
- C. **Other Work:** Clean and repair other surfaces damaged, soiled or marred by work of this Section; remove and replace items which cannot be acceptably cleaned or repaired.

3.3 ADJUSTING, CLEANING, AND PROTECTION

- A. **Adjust cabinet doors** that do not swing or operate freely.
- B. **Refinish or replace cabinets and doors** damaged during installation.
- C. **Provide final protection** and maintain conditions that ensure that cabinets and doors are without damage or deterioration at the time of Substantial Completion.

END OF SECTION