

SECTION 10 44 00
FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SECTION INCLUDES

- A. Fire extinguishers.
- B. Fire extinguisher cabinets.
- C. Accessories.

1.3 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Wood blocking product and execution requirements.

1.4 REFERENCE STANDARDS

- A. ASTM E814 - Standard Test Method for Fire Tests of Penetration Firestop Systems 2013a (Reapproved 2017).
- B. FM (AG) - FM Approval Guide current edition.
- C. NFPA 10 - Standard for Portable Fire Extinguishers 2022.
- D. UL (DIR) - Online Certifications Directory Current Edition.

1.5 DEFINITIONS

- A. Class A Fire: Ordinary combustibles. (paper, wood, cloth, rubber, etc.)
- B. Class B Fire: Flammable liquids. (gasoline, grease, alcohol, oil, etc.)
- C. Class C Fire: Electrical equipment. (motors, switches, appliances, etc.)
- D. Class D Fire: Combustible metals. (magnesium, titanium, sodium, etc.)
- E. Class K Fire: Cooking oil or fat. (vegetable oils, animal oils, fats in cooking appliances, etc. used in commercial kitchens)

1.6 SUBMITTALS

- A. Product Data: Provide extinguisher operational features, extinguisher ratings and classifications, color and finish, anchorage details, and installation instructions.
- B. Shop Drawings: Indicate locations of cabinets, cabinet physical dimensions, rough-in measurements for recessed cabinets, locations of individual fire extinguishers, mounting measurements for wall bracket, and accessories required for complete installation.

- C. Manufacturer's Installation Instructions: Indicate special criteria and wall opening coordination requirements.
- D. Maintenance Data: Include test, refill or recharge schedules and re-certification requirements.

1.7 FIELD CONDITIONS

- A. Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

1.8 PRE-INSTALLATION MEETING

- A. Contractor shall utilize the Pre-Installation Meeting Agenda and Pre-Installation Meeting Checklist documents located in e-Builder, Z - Standard Documentation & Training project: Documents \ 03 - Construction - Training and Guidance Documents \ 03 - Role Based Training and Guidance Documents \ Contractors.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Fire Extinguishers, Fire Extinguisher Cabinets, and Accessories:
 - 1. Basis of Design: Larsen's Manufacturing Co: www.larsensmfg.com.
 - 2. Substitutions: Or equal as approved by the Professional.

2.2 FIRE EXTINGUISHERS

- A. Fire Extinguishers - General: Comply with product requirements of NFPA 10 and applicable codes, whichever is more stringent. Extinguishers must be tagged with Charging/Inspection date. Charging / inspection tag must not expire prior to the one year warranty date.
 - 1. Provide extinguishers labeled by UL (DIR) or FM (AG) for purpose specified and as indicated.
- B. Multipurpose Dry Chemical Type Fire Extinguishers: Carbon steel tank, with pressure gauge.
 - 1. Series: MP Series, Multi-Purpose Dry Chemical.
 - 2. Class: A:B:C type.
 - 3. Size and classification as scheduled in Part 3 below.
 - 4. Finish: Baked polyester powder coat, red color.
 - 5. Temperature range: Approved to Minus 65 degrees F.

2.3 FIRE EXTINGUISHER CABINETS

- A. Series: Architectural Series.
- B. Model: 2712.
- C. Fire Rating: Listed and labeled in accordance with ASTM E814 requirements for fire resistance rating of walls where being installed.

- D. Cabinet Construction: Non-fire rated; cold-rolled steel door, trim, and tub.
- E. Fire Rated Cabinet Construction: One-hour fire rated.
 - 1. Provide cabinets with Flame Shield option for use in fire rated walls, where applicable.
- F. Cabinet Configuration: Fully Recessed type, 5/16" flat trim.
 - 1. Size to accommodate accessories.
 - 2. Solid door, no handle, continuous hinge, MSL cylinder lock with key (detention lock).
- G. Cabinet Mounting Hardware: Appropriate to cabinet, with pre-drilled holes for placement of anchors.
- H. Finish of Cabinet Exterior Trim and Door: Baked enamel, white color.
- I. Finish of Cabinet Interior: White colored enamel.

2.4 ACCESSORIES

- A. Extinguisher Brackets: Formed steel, standard finish, sized to fit each extinguisher class.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify rough openings for cabinet are correctly sized and located.
- C. Coordinate and provide fire rated cabinets where located in fire rated assemblies.
- D. Coordinate all recessed cabinet locations with framing, drywall and MEP trades during rough-in.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Mount brackets to wall structure and install cabinets plumb and level in wall openings, 27 inches maximum from finished floor to bottom of fire extinguisher. Verify mounting height with Architect prior to installation.
- C. Secure rigidly in place.
- D. Place extinguishers in cabinets and on wall brackets, as indicated in "Schedules" below.

3.3 SCHEDULES

- A. All fire extinguishers shall be located as indicated on the Drawings.
- B. Corridors: ABC Dry Chemical Type, Class 4A-80B:C, 10 lbs. capacity, fully recessed fire rated cabinet.
- C. Mechanical Rooms: ABC Dry Chemical Type, Class 3A-40B:C, 5 lbs. capacity, surface mount with brackets.

- D. Open Area, Reward Room, Rec Room, and Multipurpose Room: ABC Dry Chemical Type, Class 3A-40B:C, 5 lbs. capacity, fully recessed cabinet.

END OF SECTION