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Fall 9-30-2018

104422 - Fire Extinguisher Specialties

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Recommended Citation

Weatherbee, Stephanie L., "104422 - Fire Extinguisher Specialties" (2018). *Division 10 – Specialties*. 11.
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SECTION 10 4422 - FIRE EXTINGUISHER SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fire protection cabinets for the following:
 - a. Portable fire extinguishers.
2. Fire extinguishers.
3. Signage.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- ##### A.
- See Chapter 5, Division 01, Section 017700.1.1.B.1.i Closeout Procedures - Project Record Documents for equipment list requirements for all equipment provided in this section.

1.3 CODE REQUIREMENTS

- ##### A.
- Comply with applicable code requirements. Comply with cabinet monitoring requirements for cabinets in new buildings, substantial additions, and full renovations.
- ##### B.
- Where code or recommended practice call for an extinguisher type different than that called out in Part 2, provide the fire extinguisher type as required by the hazards present in the space.

1.4 NOTES TO DESIGNERS

- ##### A.
- Designers to size fire extinguishers and by extension, fire extinguisher cabinets, to the smallest size permitted by code for the location.

PART 2 - PRODUCTS

2.1 MATERIALS

- ##### A.
- Cabinet: Any of the following;



PLANNING, DESIGN AND CONSTRUCTION GUIDELINES

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1. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B. Powder coat finish.
 2. Aluminum: Alloy and temper recommended by aluminum producer and manufacturer for type of use and finish indicated, mill finish, and as follows:
 - a. Sheet: ASTM B 209 (ASTM B 209M).
 - b. Extruded Shapes: ASTM B 221 (ASTM B 221M).
 3. Stainless Steel, brushed finish.
- B. Glazed lite in door: Tempered Float Glass: ASTM C 1048, Kind FT, Condition A, Type I, Quality q3, 3 mm thick, Class 1 (clear).

2.2 FIRE EXTINGUISHERS

- A. Fire Extinguishers: Unless otherwise required per 1.3-B above, provide an appropriately sized A-B-C Tri-class Multi-Purpose Dry Chemical Type in Steel Container: UL-rated 3-A;40:B:C, with monoammonium phosphate-based dry chemical in enameled-steel container.
1. Manufacturers:
 - a. J. L. Industries, Inc., a division of Activar Construction Products Group.
 - b. Kidde Residential and Commercial Division, Subsidiary of Kidde plc.
 - c. Larsen's Manufacturing Company.
 - d. Potter Roemer LLC.

2.3 MOUNTING BRACKETS

- A. Mounting Brackets: manufacturer's standard galvanized steel, designed to secure fire extinguisher to wall. Of sizes required for types and capacities of fire extinguishers indicated, with plated or red baked-enamel finish.

2.4 FIRE PROTECTION CABINET

- A. Cabinet Type: Suitable for fire extinguisher.
1. Manufacturers:
 - a. J. L. Industries, Inc., a division of Activar Construction Products Group.
 - b. Kidde Residential and Commercial Division, Subsidiary of Kidde plc.
 - c. Larsen's Manufacturing Company.
 - d. Potter Roemer LLC.
- B. Cabinet Construction: As required.
1. Fire-Rated Cabinets: Construct fire-rated cabinets with double walls fabricated from 0.0428-inch- (1.1-mm-) thick, cold-rolled steel sheet lined



with minimum 5/8-inch- (16-mm-) thick, fire-barrier material. Provide factory-drilled mounting holes.

2. Semi-recessed Cabinets only. Surface mounted and fully recessed cabinets prohibited. Cabinet box partially recessed in walls of sufficient depth to suit style of trim indicated; with one-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend). Provide where walls are of insufficient depth for recessed cabinets but are of sufficient depth to accommodate semirecessed cabinet installation.
3. Rolled-Edge Trim: 2-1/2-inch (64-mm) backbend depth or square edge 1 - 1/2".
4. Door Hardware: Manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated.
 - a. Provide projecting lever handle with cam-action latch or projecting door pull and friction latch.
 - b. Provide continuous hinge, of same material and finish as trim, or concealed hinge permitting door to open 180 degrees.
5. Finishes: As selected by Architect.

C. Signage:

1. Red vertically reading "FIRE EXTINGUISHER" decals applied to front and both side edges of the cabinet.. Overhead wall signs, back-mounted, flag mounted, or "hat" type prohibited.

2.5 FABRICATION

A. Cabinet Doors: Fabricate doors according to manufacturer's standards, from materials indicated and coordinated with cabinet types and trim styles selected.

1. Fabricate door frames with tubular stiles and rails and hollow-metal design, minimum 1/2 inch (13 mm) thick.
2. Fabricate door frames of one-piece construction with edges flanged.
3. Miter and weld perimeter door frames.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Install fire protection cabinets in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction and as indicated below.

1. Fire Protection Cabinets: 54 inches (1372 mm) above finished floor to top of cabinet.



2. Comply with ADA requirements.

END OF SECTION 10 4422