SECTION 10520

FIRE-PROTECTION SPECIALTIES

PART 1 - GENERAL

1.1   SUMMARY

    A.   This Section includes the following:
        1.   Portable fire extinguishers.
        2.   Fire-protection cabinets for the following:
            a.   Portable fire extinguishers.
        3.   Fire-protection accessories.

1.2   SUBMITTALS

    A.   Product Data: Include 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 for Selection: Manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available for each type of cabinet finish indicated.

    C.   LEED Submittal:
        1.   Credit MR 2.1 and 2.2: Comply with Division 1 Section "Construction Waste Management."

1.3   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.
        1.   Provide extinguishers listed and labeled by FM.

PART 2 - PRODUCTS

2.1   MANUFACTURERS

    A.   Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Portable Fire Extinguishers:
   a. Amerex Corporation.
   b. J.L. Industries, Inc.
   c. Kidde: Walter Kidde, The Fire Extinguisher Co.
   d. Larsen's Manufacturing Company.
2. Fire-Protection Cabinets:
   a. J.L. Industries, Inc.
   b. Larsen's Manufacturing Company.
   c. Potter-Roemer; Div. of Smith Industries, Inc.

B. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following.
1. J.L. Industries: Cosmopolitan Series 1037F17.
2. Larsen's: Architectural Series SS 2409-6R.
3. Potter-Roemer: Alta Series 7062-A-2.

2.2 MATERIALS

A. Cold-Rolled Steel Sheet: Carbon steel, complying with ASTM A 366/A 366M, commercial quality, stretcher leveled, temper rolled.

B. Stainless-Steel Sheet: ASTM A 666/A 666M, Type 302 or Type 304 alloy.

2.3 PORTABLE FIRE EXTINGUISHERS

A. General: Provide fire extinguishers of type, size, and capacity for each cabinet and other locations indicated.

B. Multipurpose Dry-Chemical Type: UL-rated 4-A:60-B:C, 10-lb (4.5-kg) nominal capacity, in enameled-steel container.

2.4 FIRE-PROTECTION CABINETS

A. Cabinet Construction: Provide manufacturer's standard box (tub), 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.
1. Fire-Rated Cabinets: Listed and labeled to meet requirements of ASTM E 814 for fire-resistance rating of wall where it is installed.
   a. Construct fire-rated cabinets with double walls fabricated from 0.0478-inch- (1.2-mm-) thick, cold-rolled steel sheet lined with minimum 5/8-inch- (16-mm-) thick, fire-barrier material.
   b. Provide factory-drilled mounting holes.
2. Cabinet Metal: Enameled-steel sheet.
3. Shelf: Same metal and finish as cabinet.

B. Cabinet Type: Suitable for the following:
1. Fire extinguisher.

C.   Cabinet Mounting: Suitable for the following mounting conditions:
1.   Recessed: Cabinet box recessed in walls of sufficient depth to suit style of trim indicated.

D.   Cabinet Trim Style: Fabricate cabinet trim in one piece with corners mitered, welded, and ground smooth.
1.   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.   Rolled-Edge Trim: 2-1/2-inch (64-mm) backbend depth.

E.   Cabinet Trim Material: Manufacturer's standard, as follows:
1.   Stainless-steel sheet.

F.   Door Material: Manufacturer's standard, as follows:
1.   Stainless-steel sheet.

G.   Door Glazing: Manufacturer's standard, as follows:
1.   Tempered Float Glass: ASTM C 1048, Kind FT, Condition A, Type I, Quality q3, as follows:
a.   Class 1 (clear).
b.   Thickness: 3 mm.

H.   Door Style: Manufacturer's standard design, as follows:
1.   Fully glazed panel with frame.

I.   Door Construction: Fabricate doors according to manufacturer's standards, of materials indicated, and coordinated with cabinet types and trim styles selected.
1.   Provide minimum 1/2-inch- (13-mm-) thick door frames, fabricated with tubular stiles and rails, and hollow-metal design.

J.   Door Hardware: Provide manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide either lever handle with cam-action latch, or exposed or concealed door pull and friction latch. Provide concealed or continuous-type hinge permitting door to open 180 degrees.

2.5   COLORS AND TEXTURES

A.   Colors and Textures: As selected by Architect from manufacturer's full range for these characteristics.

2.6   FINISHES, GENERAL

A.   Cabinet and Door Finishes: Provide manufacturer's standard baked-enamel paint for the following:
1.   Exterior of cabinets and doors, except for those surfaces indicated to receive another finish.
2.   Interior of cabinets and doors.

2.7   STEEL FINISHES

A.   Surface Preparation: Clean surfaces of dirt, oil, grease, mill scale, rust, and other contaminants that could impair paint bond using manufacturer's standard methods.

B.   Baked-Enamel Finish: Immediately after cleaning and pretreating, apply manufacturer's standard two-coat, baked-enamel finish consisting of prime coat and thermosetting topcoat. Comply with paint manufacturer's written instructions for applying and baking to achieve a minimum dry film thickness of 2 mils (0.05 mm).
      1.   Color and Gloss: As selected by Architect from manufacturer's full range.

2.8   STAINLESS-STEEL FINISHES

A.   General: Remove or blend tool and die marks and stretch lines into finish. Grind and polish surfaces to produce uniform, directionally textured polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

B.   Bright, Directional Polish: No. 4 finish.

C.   When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

PART 3 - EXECUTION

3.1   INSTALLATION

A.   Comply with manufacturer's written instructions for installing fire-protection specialties.

B.   Install in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction.
      1.   Prepare recesses for cabinets as required by type and size of cabinet and trim style.
      2.   Fasten cabinets to structure, square and plumb.

END OF SECTION