SECTION 104413 - FIRE EXTINGUISHER CABINETS

PART 1 - GENERAL

1.1 SUMMARY
   A. Section includes fire protection cabinets for fire extinguishers.

1.2 ACTION SUBMITTALS
   A. Product Data: For each type of product indicated.
   B. Shop Drawings: For fire protection cabinets. Include plans, elevations, sections, details, and attachments to other work.

1.3 QUALITY ASSURANCE
   A. Fire-Rated, Fire Protection Cabinets: Listed and labeled to comply with requirements in ASTM E 814 for fire-resistance rating of walls where they are installed.
   B. Coordinate size of fire protection cabinets to ensure that type and capacity of fire extinguishers indicated are accommodated.
   C. Coordinate sizes and locations of fire protection cabinets with wall depths (that utilize 3-5/8 studs).

PART 2 - PRODUCTS

2.1 MATERIALS
   A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B.
   B. Aluminum: Alloy and temper recommended by aluminum producer and manufacturer for type of use and finish indicated, and as follows:
      2. Extruded Shapes: ASTM B 221.
   C. Stainless-Steel Sheet: ASTM A 666, Type 304.
   D. Transparent Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), with Finish 1-smooth or polished.
   E. Acrylic Bubble or Canopy: Not permitted.
2.2 FIRE PROTECTION CABINET

A. Cabinet Type: Suitable for fire extinguisher.
   1. **Products:** Subject to compliance with requirements, provide one of the following:
      a. Fire End & Croker Corporation.
      c. Larsen's Manufacturing Company.
      d. Modern Metal Products, Division of Technico Inc.
      e. Moon-American.
      f. Potter Roemer LLC.
      g. Watrous Division, American Specialties, Inc.

B. Cabinet Construction: Nonrated or rated is dependent upon the rating of the wall assembly where cabinet will be mounted.
   1. Fire-Rated Cabinets: Construct fire-rated cabinets with double walls fabricated from 0.0428-inch-thick, cold-rolled steel sheet lined with minimum 5/8-inch-thick, fire-barrier material. Provide factory-drilled mounting holes.

C. Cabinet Material: Aluminum or Stainless-steel sheet.

D. Recessed Cabinet: Cabinet box recessed in walls of sufficient depth to suit style of trim indicated.
   1. **Trimless with Hidden Flange:** Flange of same metal and finish as box overlaps surrounding wall finish and is concealed from view by an overlapping door.
   2. **Exposed Flat Trim:** One-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend).

E. Semirecessed Cabinet: 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.
   1. **Rolled-Edge Trim:** 2-1/2-inch backbend depth.

F. Cabinet Trim Material: Same material and finish as door.

G. Door Material: Steel sheet, Aluminum sheet, extruded-aluminum shapes, or stainless-steel sheet.

H. Door Style: Fully glazed, frameless, backless, acrylic panel or fully glazed panel with frame.

I. Door Glazing: Acrylic sheet.
1. Acrylic Sheet Color: Clear transparent acrylic sheet.

J. Door Hardware: Manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated.

K. Accessories:

1. Mounting Bracket: Manufacturer's standard steel, designed to secure fire extinguisher to fire protection cabinet, of sizes required for types and capacities of fire extinguishers indicated, with plated or baked-enamel finish.
2. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated.
   a. Identify fire extinguisher in fire protection cabinet with the words "FIRE EXTINGUISHER."
      1) Location: Applied to [cabinet door] [cabinet glazing].
      2) Application Process: Decals.
      3) Lettering Color: [Red] [Black]
      4) Orientation: Horizontal.

L. Finishes:

1. Manufacturer's standard baked-enamel paint for the following:
   a. Exterior of cabinet, door, and trim, except for those surfaces indicated to receive another finish.
   b. Interior of cabinet and door.
2. Aluminum: Baked enamel or powder coat.
   a. Color: Flat or semi-gloss white.
3. Steel: Baked enamel or powder coat.
   a. Color and Gloss: Flat or semi-gloss white.
4. Stainless Steel: No. 4.

2.3 FABRICATION

A. Fire Protection Cabinets: Provide manufacturer's standard box (tub), with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated. Miter and weld joints and grind smooth.
PART 3 - EXECUTION

3.1 INSTALLATION

A. Examine walls and partitions for suitable framing depth and blocking where recessed and semirecessed cabinets will be installed and prepare recesses as required by type and size of cabinet and trim style.

B. Install fire protection cabinets in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction to comply with ADA requirements.

C. Fire Protection Cabinets: Fasten cabinets to structure, square and plumb.

D. Identification: Apply vinyl lettering at locations indicated.

E. Adjust fire protection cabinet doors to operate easily without binding. Verify that integral locking devices operate properly.

F. Replace fire protection cabinets that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 104413