

SECTION 10 00 00 – SPECIALTIES

PART 1 GENERAL

1.1 SUMMARY

A. **Section includes:**

1. Fire Extinguishers, Cabinets, and brackets.
2. Wire Shelving.
3. Coat Racks.

B. **Related Sections:** Documents relating to the work of this section include, but are not limited to, the General Conditions, Supplementary Conditions, and Sections of Division 1.

1.2 REFERENCES (Refer Section 01 42 00)

A. Provide products and workmanship in accordance to: (Where applicable)

1. ASTM D 1784: Standard Specification for Rigid Poly Vinyl Chloride (PVC) Compounds and Chlorinated Poly Vinyl Chloride (CPVC) Compounds.
2. ASTM D 543 - Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents.
3. ASTM D 635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
4. Underwriters Laboratory (UL) 723 - Test for Surface Burning Characteristics of Building Materials.

1.3 SUBMITTALS (Refer Section 01 30 00)

A. Furnish the following for approval:

1. Manufacturers Literature, installation instructions.
2. Shop Drawings. Include roughing-in dimensions, details showing mounting methods, relationships to surrounding construction, hardware, and related information.
3. Samples of Materials, Finishes, Colors.

1.4 REGULATORY REQUIREMENTS

A. Furnish, fabricate, and install all items in accordance to the requirements of the Americans with Disabilities Act (ADA), Title II and III.

1.5 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Maintain integrity of fire rated partitions and walls with the installation of recessed or semi-recessed equipment.

1.6 DELIVERY, STORAGE, HANDLING

- A. Store products in accordance with manufacturer's directions in unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.
- C. Store wall protection products in original packaging. Protect from weather, extreme temperatures, and moisture. Maintain temperature during storage between 40°- 100°F. Store materials flat to prevent twisting or sagging of cartons.

PART 2 PRODUCTS

2.1 COMPLIANCE

- A. All manufacturers listed herein without a designated product must comply with the requirements of the specification, and, additionally, with the requirements of a specific manufacturer's product if indicated. Products of other manufacturers will be considered for acceptance provided they equal or exceed the material requirements and functional qualities of the specification. Furnish the "Substitution Request Form" with complete technical data for evaluation for Architect's approval. Additional approved manufacturers will be issued by Addendum. Refer to Division 1.

2.2 FIRE EXTINGUISHERS

A. **Manufacturers:**

- 1. J. L. Industries.
- 2. Potter-Roemer.
- 3. Ansul.
- 4. Walter Kidde, the Fire Extinguisher Co.
- 5. Larsen's Manufacturing Company.
- 6. Watrous.

- B. **Multipurpose Dry-Chemical Type:** 10 lb. multi-purpose dry chemical type for use on A, B, and C fires (4A-60BC), with hose and horn, using fluidized and siliconized mono ammonium phosphate powder. Fabricate in accordance with NFPA No. 10, 10A, and 10L, and UL Standards. Fabricate with heavy-duty steel cylinder, metal valve and siphon tube, replaceable molded valve stem seal, visual pressure gauge, pull pin and upright squeeze grip, and corrosion resistant powder coat finish. No plastic or nylon valves, trigger/handle, casing, or gauge will be acceptable. Provide this type throughout facility, unless noted otherwise.

- C. **Wet Chemical Type:** (For Kitchen Areas) 6 liter, wet chemical, low "pH" Potassium Acetate Type for use on K fires, UL 2A-1B-C-K. Fabricate in accordance with NFPA No. 10, 10A, and 10L, and UL Standards, and designed for kitchen grease fire hazards, and to meet the K-class listing, with a discharge creating a saponification foam-type blanket foam blanket suppressing liquid cooking media fires. Fabricate with Stainless steel cylinder, protective nozzle tip orifice seal, non-metallic tip finger guard, and Industry standard horn and nozzle design. Show the class K symbol on nameplate.

- D. **Size:** maximum 20-1/2" high, and approximately 9" overall width and 5" diameter.

E. Code Compliance:

1. NFPA Compliances: Fabricate, label, furnish, and install fire extinguishers to comply with NFPA 10, "Standard for Portable Fire Extinguishers".
2. Regulations: U.S. Architectural and Transportation Barriers Compliance Board, Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG), Adopted in 1991, and continual revisions as published in Federal Register. These regulations shall supersede Technical Specifications of this Section.

F. Misc. Requirements:

1. Provide one extinguisher in each fire extinguisher cabinet shown on drawings as "FEC" or "FEC-R",
2. Provide mounting bracket for wall-mounted extinguishers without cabinets shown on drawings as "FE".
3. Fully charge fire extinguishers ready for use when building is turned over to the Owner. Certify as fully charged by an approved fire extinguisher service company and tag or label as such.

2.3 FIRE EXTINGUISHER CABINETS

A. Manufacturers:

1. J. L. Industries.
2. Potter-Roemer.
3. Larsen's Manufacturing Company.
4. Watrous.
5. The Williams Brothers Corp.

B. Description: Manufacturer's standard steel box (tub), with trim, frame, door, and hardware, labeled to comply with requirements of ASTM E814 for fire resistance rating of walls. Weld joints and grind smooth.

C. Fabrication:

1. Miter and weld perimeter of door frames. Provide minimum 1/2 inch thick door frames, fabricated with tubular stiles and rails, and hollow metal design.
2. 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.
3. Confirm proper cabinet size, and rough or masonry opening, with manufacturer to accommodate the specified extinguisher.
4. Integrity of fire rated walls must be maintained with installation of recessed or semi-recessed cabinet.
5. Provide recessed door pull and self-adjusting roller latch. Provide continuous type hinge permitting door to open 180 degrees. Provide one mounting bracket in each cabinet.

D. Cabinet Mounting:

1. Recessed Cabinets (FEC-R).
2. Semi-Recessed Cabinet (FEC).

E. Door Style: Manufacturer's standard Vertical Duo panel design with frame.

F. Cabinet Trim Style: Fabricate trim in one piece with corners mitered, welded, and ground smooth, overlapping surrounding wall surface with back-bend at outer edge.

1. Flat Trim: 1/4 to 5/16 inch backbend depth (recessed).

2. Rolled Edge Trim: 4-inch backbend depth (semi-recessed).
- G. **Glazing:** 1/4" clear tempered glass. Provide solid panel metal doors in gymnasiums in lieu of glass. Acrylic bubbles are not acceptable.
- H. **Finish:**
1. Surface Preparation: Clean surfaces of dirt, oil, grease, mill scale, rust, and other contaminants that could impair paint bond using manufacturer's standard methods.
 2. Baked-Enamel Finish: AA-C12C42R1x. Apply baked enamel complying with paint manufacturer's specifications for cleaning, conversion coating, and painting. Provide thermosetting, modified acrylic enamel primer/topcoat system complying with AAMA 603.8 except with a minimum dry film thickness of 1.5 mils, medium gloss. Color as selected by Architect.
- I. **Identification:** Provide lettering to comply with authorities having jurisdiction for letter style, color, size, spacing, and location. Identify cabinet with the words in red "FIRE EXTINGUISHER", Silk-screened, engraved, etched, or die cut, applied vertically. Decals and pressure-sensitive vinyl letters are not acceptable.

2.4 COAT RACKS, ALUMINUM WALL-MOUNTED

- A. **Manufacturers:**
1. Vogel-Peterson Co. "Custom Line Model AA202 E".
 2. Magnuson Group.
 3. Emco.
- B. **Description:** Cast aluminum wall brackets, two anodized satin aluminum tubular shelves, end caps, and hanger bar with concealed fastenings, length as shown on drawings. Provide mitered corner turns.

2.5 WIRE SHELVING

- A. **Manufacturer:**
1. Lee/Rowan "Fastset".
 2. Safeco.
 3. Global Industrial.
- B. **Standard Shelving:** Conventional shelving, 16" deep, with epoxy coated wire rods (1/0 ga. front rods, 1/0 ga. stud, 3 ga. back rods, and 12 ga. cross wires at 1" o/c).
- C. **Hanging Rod Shelving:** Same as standard shelving except with continuous front hanging rod.
- D. **Accessories:** Furnish clips, supports, and braces, and other installation hardware as required for sturdy support of intended usage.

2.6 LOCKERS

- A. **Duplex Lockers:** Each compartment 12" w. x 36" h. x 15" deep, two compartments high, 6"-0" unit height, number plates and padlock attachments, and "quiet" lock bar assembly and cushioned moving parts within door. Provide hat shelf, and three hooks per compartment.
- B. **Acceptable Manufacturers:**
1. Lyon Workspace Products, Aurora, Illinois
 2. Republic Storage Systems, Co., Canton, Ohio

3. Penco Products, Inc., Oaks, Pennsylvania
4. Hadrian Manufacturing, Inc., Mentor, Ohio
5. Superior by List Industries, Deerfield Beach, Florida.

C. **Construction:** Mechanically Assembled (Knock-Down):

1. Body: Form backs, legs, sides, and intermediate partitions from 24-gauge steel sheet, with single bend at sides, flanged double thickness for back vertical corners. Provide 16-gauge bottom and top. Assemble by bolting together, with bolt spacing max. 9 inches on center.
2. Frames: 16-gauge steel channels, vertical members with additional flange to form continuous door strike, corners lapped and welded into a rigid assembly, top and bottom cross members constructed to prevent twisting and misalignment.
3. Cross Frames: Form intermediate channel cross frames between tiers from minimum 16-gauge steel sheet, welded to vertical frame members.
4. Doors: One piece steel sheet, 16-gauge, formed into channel shape at vertical edges and flanged at right angles at top and bottom edges. Fabricate to prevent springing and to swing 180 degrees. Comply with the following:
5. Recessed Handle and Latch: Manufacturer's standard housing, formed from 0.0359 inch thick nickel plated steel or stainless steel, with integral door pull, recessed for latch lifter and locking devices, non-protruding latch lifter, and automatic, pre-locking, pry resistant latch. Provide strike and eye for padlock.

- D. **Baked Enamel Finish:** Immediately after cleaning and pre-treating, apply manufacturer's standard baked enamel finish consisting of a thermosetting topcoat. Comply with paint manufacturer's written instructions for applying and baking to achieve a minimum dry film thickness of 1.4 mils on doors, frames, and legs, and 1.1 mils elsewhere.

PART 3 EXECUTION

3.1 INSTALLATION

A. **General:**

1. Install all items in accordance with manufacturer's directions and in accordance to ADA requirements.
2. Maintain integrity of fire rated walls with the installation of recessed or semi-recessed items.
3. Instruct Drywall contractor to provide sheet metal backing in walls as required for proper support.
4. Install all items rigid, level, true to line, and plumb. Securely attach to walls, floors, and/or bases using concealed anchoring devices, appropriate to the substrate.

- B. **Fire Extinguishers and Cabinets:** Comply with manufacturer's written instructions for installing fire extinguisher, fire extinguisher cabinets and mounting brackets.

1. Install fire extinguisher cabinets at the locations and mounting height indicated, if not indicated, at heights acceptable to authorities having jurisdiction. Accomplish a neat and workmanlike finished job, consistent with the requirements for the use of the equipment.
2. Fasten mounting brackets to structure and cabinets, square and plumb.
3. Fasten cabinets to structure, square and plumb.
4. Provide fire extinguishers fully charged and ready for use when building is turned over to the Owner. Provide extinguishers certified as fully charged by an approved fire extinguisher service company and tagged or labeled as such.

C. Locker Installation:

1. Install lockers level, plumb, rigid, and flush in strict accordance with the manufacturer's instructions for the proper assembly of lockers and their installation in accurate position and alignment.
2. Install end panels and filler plates to complete each section of the assembly.
3. Assemble knocked-down lockers with standard fasteners, with no exposed fasteners on door faces and face frames.
4. Anchor lockers to floors and walls at intervals recommended by manufacturer, but not more than 36-inches on center. Install anchors through backup reinforcing plates where necessary to avoid metal distortion, using concealed fasteners.

3.2 CLEANING

- A. Clean all surfaces in accordance to manufacturer's recommendations.
- B. Remove excess adhesive using methods and materials recommended in writing by manufacturer.
- C. Clean aluminum surfaces using water, sponges, or soft brushes, followed by the use of mild detergents if required, in accordance to the guidelines published in AAMA 2609 for anodized finishes and AAMA 2610 for painted finishes.

END OF SECTION 10 00 00