

SECTION 10 43 00
EMERGENCY SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Defibrillator (AED) cabinets.
 - 2. Automated external defibrillator (AED).
 - 3. Accessories.

1.2 ACTION SUBMITTALS

- A. Product Data: Submit technical data including construction details, material descriptions, dimensions of individual components and profiles, cabinet type and materials, door style and finishes.
 - 1. Automatic External Defibrillator (AED).
 - 2. Cabinets: Indicate door hardware, cabinet type, trim style, and panel style. Include roughing in dimensions and details showing recessed, semirecessed, or surface mounting method and relationship to adjacent construction.
- B. Shop Drawings: Submit plans, elevations, sections, details, and attachments of AED cabinets to other work.
- C. Samples: Submit samples for each exposed finish required, prepared on samples 6 inches by 6 inches (150 mm by 150 mm) square.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Obtain AED cabinets from a single manufacturer.
- B. Preinstallation Conference: Conduct conference at site.

1.4 COORDINATION

- A. Coordinate size of AED cabinets with AED to ensure that products are accommodated.
- B. Coordinate sizes and locations of AED cabinets with wall depths.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, and protect defibrillator cabinets and related materials to prevent damage, deterioration, or loss.

- B. Deliver components in original packaging, properly labeled for identification.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire Rated, Defibrillator Cabinets: Listed and labeled to comply with requirements in ASTM E814 for fire resistance rating of walls where they are installed.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 EMERGENCY SPECIALTY CABINET

- A. Manufacturer:
 - 1. Basis of Design, Cabinet: 1400 Lifestart Series by JL Industries. Subject to compliance with requirements, provide basis of design product or comparable by one of the following:
 - a. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - b. Larsens Manufacturing Company.
 - 2. Basis of Design, AED: Phillips Heartstart Onsite (HS1) Defibrillator by Phillips Healthcare. Subject to compliance with requirements, provide basis of design product or comparable by one of the following:
 - a. Defibtech.
 - b. Phillips Healthcare.
- B. Cabinet Construction: Nonrated.
 - 1. Fire Rated AED Cabinets: Construct fire rated cabinets with double walls fabricated from 0.043 inch (1.09 mm) thick cold rolled steel sheet lined with minimum 5/8 inch (16 mm) thick fire barrier material. Provide factory drilled mounting holes.
- C. Cabinet Material: Cold rolled steel sheet.
 - 1. Shelf: Same metal and finish as cabinet.
 - 2. Tub: Cold rolled steel.
 - a. Finish: Factory applied powder coat paint finish.
 - 1) Color: White.
 - b. Finish: Factory applied ground and polished finish.
 - 1) Color: No. 4 directional satin finish.
 - 3. Recessed Cabinet:
 - a. Exposed Flat Trim: One piece combination trim and perimeter door frame overlapping surrounding wall surface, with 3/8 inch (9.5 mm) exposed trim face and wall return at outer edge (backbend).

4. Semirecessed Cabinet: One piece combination trim and perimeter door frame overlapping surrounding wall surface, with exposed trim face and wall return at outer edge (backbend).
 - a. Square Edge Trim: 1-1/4 inch to 1-1/2 inch (32 mm to 38 mm) backbend depth.
 - b. Rolled Edge Trim: 3 inch (76 mm) backbend depth.
 5. Surface Mounted Cabinet: Cabinet box fully exposed and mounted directly on wall with no trim.
 - a. Square Edge Trim: 1-1/4 inch to 1-1/2 inch (32 mm to 38 mm) backbend depth.
 - b. Rolled Edge Trim: 3 inch (76 mm) backbend depth.
- D. Cabinet Finish:
1. Finish: Factory applied powder coat paint finish.
 - a. Color: White.
 2. Finish: Stainless steel, factory applied ground and polished finish; No. 4 directional satin finish.
- E. Door and Trim Construction: Cold rolled steel; flush doors with 5/8 inch (15.88 mm) door stop attached by continuous hinge and equipped with zinc plated roller catch.
1. Door Style: Vertical duo panel with frame, acrylic glazing with safety lock.
 2. Door Glazing: Acrylic sheet (clear).
- F. Door Hardware: Door operating hardware of proper type for cabinet type, trim style, and door material and style indicated.
1. Provide projecting lever handle with cam action latch.
 2. Provide continuous hinge, of same material and finish as trim, permitting door to open 180 degrees.
- G. Wall Signs and Cabinet Lettering:
1. AED wall signs.
 2. Custom door graphics.
 3. AED Identification: Wall signage with lettering complying with authorities having jurisdiction for letter style, size, spacing, and location.
 - a. Location: Applied to cabinet door.
 - b. Application Process: Pressure sensitive vinyl letters.
 - c. Lettering Color: Red.
- H. Alarm: Alarm that actuates when cabinet door is opened and that is powered by low voltage, complete with transformer.
1. Alarm: 85 db Commander (audible) cabinet mounted alarm standard (battery operated) to protect against theft or tampering. Alarm deactivated when door is closed.
 - a. Brigadier Alarm: Alarm with 85 dB (audible) Alarm (battery operated). Alarm stays on for 2 minutes after door is closed.

2. Miter and weld perimeter door frames and grind smooth.

C. Cabinet Trim: Fabricate cabinet trim in one piece with corners mitered, welded, and ground smooth.

2.5 FINISH REQUIREMENTS

A. Comply with NAAMM's AMP 500 Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces of AED cabinets from damage by applying a strippable, temporary protective covering before shipping.

C. Finish cabinets after assembly.

D. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine roughing-in for AED cabinets to verify actual locations before cabinet installation.

B. Examine walls and partitions for suitable framing depth and blocking where semirecessed cabinets are installed.

C. Proceed with installation after correcting unsatisfactory conditions.

3.2 PREPARATION

A. Prepare recesses for semirecessed AED cabinets required by type and size of cabinet and trim style.

3.3 INSTALLATION

A. Install AED cabinets in locations and at mounting heights indicated or at heights acceptable to authorities having jurisdiction and accessibility standards.

B. AED Cabinets: Fasten cabinets to structure, square and plumb.

1. Unless otherwise indicated, provide recessed AED cabinets. If wall thickness is inadequate for recessed cabinets, provide semirecessed AED cabinets.

2. Fire Rated AED Cabinets:

a. Install cabinet with not more than 1/16 inch (1.6 mm) tolerance.

b. Seal through penetrations with firestopping sealant.

- C. Locate AED cabinet in locations indicated and in compliance with requirements of authorities having jurisdiction.
- D. Identification: Verify AED identification and graphic is viewable through window.

3.4 ADJUSTING AND CLEANING

- A. Remove temporary protective coverings and strippable films as AED cabinets are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. Adjust AED cabinet doors to operate easily without binding.
- C. On completion of AED cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.
- D. Touch up marred finishes, or replace AED cabinets that cannot be restored to factory finished appearance. Use materials and procedures recommended or furnished by AED cabinet manufacturers.
- E. Replace AED cabinets that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION