

SECTION 10 44 15
FIRE EXTINGUISHERS AND CABINETS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Requirements for fire extinguishers, fire blankets, cabinets and accessories as indicated on Drawings and as specified herein.

1.02 RELATED TECHNICAL INFORMATION

- A. Corridors and Lobbies: Pressurized Water - 2½ gallons.
- B. Holding Areas: Pressurized Water - 2½ gallons.
- C. Fire Rescue Areas, Areas of Rescue assistance: Multipurpose Dry Chemical (rated A,B,C) - 20 pounds.
- D. Elevator Machine Rooms: Dry Chemical (rated B,C) - 5 pounds.
- E. Kitchens: Purple Dry Chemical (Rated K) portable wall hung extinguishers per FC 609.6 of the 2014 NYC Fire Code (for fighting oil, gas-type fires in cooking kitchens) - 20 pounds. As they are in a potentially obscured location, provide self-adhesive vinyl wall sign labeled "FIRE EXTINGUISHER" placed directly over extinguisher.
- F. Boiler rooms, fuel oil storage room, emergency generator room: Dry chemical type with at least a 20BC rating per FC 603.3.1.

1.03 REFERENCE STANDARDS

- A. References and industry standards listed in this Section are applicable to the Work. Unless more restrictive criteria or differing requirements are explicitly stated in the Specifications, or mandated by governing codes or regulations, the recommendations, suggestions, and requirements described in the referenced standards shall be deemed mandatory and applicable to the Work
 - 1. Underwriters Laboratories, Inc. (UL)
 - 2. Intertek/Warnock Hersey
 - 3. American Society for Testing and Materials (ASTM)
 - 4. Uniform Building Code (UBC)

1.04 SUBMITTALS

- A. Product Data:
 - 1. Brochure of product, accessories, and installation details. Include rating and classification.
- B. Shop drawings:
 - 1. Location of fire extinguisher, fire blankets and cabinets by type.
 - 2. Location of fire extinguishers and related "Fire Extinguisher" signs for cooking kitchen.
- C. Samples
 - 1. For Initial Selection: For fire-protection cabinets and fire blanket cabinets with factory-applied finishes.
 - a. Size: 6" by 6" (150 by 150 mm) square.
- D. Maintenance Data
 - 1. For fire extinguishers and fire-protection cabinets to include in maintenance manuals.
- E. Warranty as specified in Article 1.07.

1.05 QUALITY ASSURANCE

- A. Fire Extinguisher
 - 1. Bear UL "Listing Mark" for type, rating, and classification of extinguisher indicated.
- B. Fire Blanket

1. Blanket shall meet flammability requirements of federal spec CS-191-53 per 16-CFR 1610.
- C. Source Limitations
 1. Obtain fire extinguishers, and fire-protection cabinets from a single manufacturer.
 2. Obtain fire blankets and fire blanket cabinets from a single manufacturer.

1.06 COORDINATION

- A. Coordinate size of fire-protection cabinets to ensure that type and capacity of fire extinguishers indicated are accommodated.
- B. Coordinate size of fire blanket cabinets to ensure that type and size of fire blankets indicated are accommodated.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, and handle products as recommended by manufacturer to protect from damage.

1.08 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of portable fire extinguishers that fail in materials or workmanship within six years from date of Substantial Completion.
 1. Failures include, but are not limited to, the following:
 - a. Failure of hydrostatic test according to NFPA 10.
 - b. Faulty operation of valves or release levers.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. J. L. Industries, Bloomington, MN
- B. Larsens Manufacturing Co., Minneapolis, MN
- C. Modern Metal Products, Owatonna, MN
- D. Potter Roemer, Union, NJ
- E. AMEREX Corporation, Trussville, AL 35173

2.02 FIRE EXTINGUISHERS

- A. Multipurpose Dry Chemical Type (For Class A,B,C Fires)
 1. Model: J.L. Industries Cosmic 10E, utilizing fluidized and siliconized mono ammonium phosphate powder.
 2. UL Rating: 4A-60BC
 3. Nominal Capacity: 10 lbs.
- B. Multipurpose Dry Chemical Type (For Class A,B,C Fires)
 1. Model: J.L. Industries Cosmic 20E, utilizing fluidized and siliconized mono ammonium phosphate powder.
 2. UL Rating: 20A-120BC
 3. Nominal Capacity: 20 lbs.
- C. Dry Chemical Type (For Class B, C Fires)
 1. UL Rating: 10BC: Model: J.L. Industries Galaxy 5, utilizing siliconized sodium bicarbonate base. Nominal Capacity: 5 lbs
 2. UL Rating: 40BC: Model: J.L. Industries Galaxy 5 1/2. Nominal capacity 5 1/2 lbs.
- D. Dry Chemical Type Purple K (For Class K Fires)
 1. Model: AMEREX CORP. No. A413, utilizing specially fluidized and siliconized potassium bicarbonate dry chemical Class B flammable liquids and pressurized gases.
 2. UL Rating 120BC
 3. Nominal Capacity: 20 lbs.
 4. Signage: Self-adhesive visible wall sign to be placed above extinguisher shall be "Fire Extinguisher" red and white by AMEREX CORP.

- E. Pressurized Water Type (For Class A Fires)
 - 1. Model: J.L. Industries Grenadier, utilizing water and compressed air.
 - 2. UL Rating: 2A
 - 3. Nominal Capacity: 2½ gallons
- F. Carbon Dioxide Type (For Class BC Fires)
 - 1. Model: J.L. Industries Sentinel 10, utilizing liquid carbon dioxide.
 - 2. UL Rating: 10BC
 - 3. Nominal Capacity: 10 lbs

2.03 FIRE EXTINGUISHER CABINETS

- A. Fire extinguisher Cabinets (Non-Fire-Rated Walls)
 - 1. Model: J.L. Industries Academy Series Flat Trim 2025
 - 2. Door Style: F (Full Glass)
 - 3. Door Glazing: 10 (1/4" Acrylic)
 - 4. Finish (Aluminum): #180 clear anodized and door.
 - 5. Cabinet Tub: Steel, with Electrostatic white epoxy finish primer.
 - 6. Brackets: MB 846 for Cosmic 10E; MB 810 for Cosmic 20E, MB 818 for Galaxy; MB 810 for Grenadier; MB 810 for Sentinel.
- B. Fire extinguisher Cabinets (Fire-Rated Walls)
 - 1. Model: J.L. Industries Academy Series 2025 Flat Trim
 - 2. Door Style: F (Full Glass)
 - 3. Door Glazing: 13 (Wire Glass)
 - 4. Finish (Aluminum): #180 clear anodized frame and door.
 - 5. Cabinet Tub: FX-Fire-rated, certified by Warnock Hersey or Underwriters Laboratory. Provide Electrostatic white epoxy finish primer.
 - 6. Brackets: MB 846 for Cosmic 10E; MB 810 for Cosmic 20E, MB 808 for Knight; MB 810 for Grenadier.
 - 7. Fabricate cabinets in accordance with UBC 43-6 (ASTM E814) to measure fire resistance.
- C. Fire Blanket Cabinets
 - 1. Model: J.L. Industries Horizontal drop cabinet #9613S21
Larsens Manufacturing Co. #FB1016
Modern Metal Products #601
Potter Roemer #6601
 - 2. Blanket: Provide one 62"x80" fire blanket for each cabinet.
 - 3. Finish: Painted bright red with white silk screen lettering: "Fire Blanket".
 - 4. Install fire blanket cabinet surface-mounted as per manufacturer recommendations.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine walls and partitions for suitable framing depth and blocking where cabinets are to be installed.
- B. Extinguishers are intended by design to be in unobstructed locations. Notify the Authority of extinguishers being placed in a potentially obstructed location.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install, at locations indicated on Drawings and in accordance with manufacturer's recommendations. Securely fasten mounting brackets and cabinets to structure, square and plumb.

- B. Prior to installing fire extinguishers in cabinets, examine fire extinguishers for proper charging and tagging. Extinguishers are to be provided fully charged and tagged. Replace damaged, defective, or undercharged units.

3.03 ADJUSTING AND CLEANING

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

END OF SECTION