

SECTION 104416 - FIRE EXTINGUISHERS

First Edition: 06-01-2021

(Consultant shall edit specifications and blue text in header to meet project requirements. This includes but is not limited to updating Equipment and/or Material Model Numbers indicated in the specifications and adding any additional specifications that may be required by the project. Also turn off all "Underlines")

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes the requirements for the following types of fire extinguishers:
<edit for project>
 - 1. Portable, hand-carried fire extinguishers.
 - 2. Wheeled fire extinguishers.
- B. Related Requirements:
 - 1. Section 104413 "Fire Protection Cabinets."
 - 2. Section 233813 "Commercial-Kitchen Hoods" for fire-extinguishing systems provided as part of commercial-kitchen exhaust hoods. <delete if not required>

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include rating and classification, material descriptions, dimensions of individual components and profiles, and finishes for fire extinguishers.
- B. Product Schedule: For fire extinguishers. Coordinate final fire-extinguisher schedule with fire-protection cabinet schedule to ensure proper fit and function. Indicate extinguisher type and location. <Use same designations indicated on Drawings>

1.4 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire extinguishers to include in maintenance manuals.

1.6 COORDINATION

- A. Coordinate type and capacity of fire extinguishers with fire-protection cabinets to ensure fit and function.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Failure of hydrostatic test according to NFPA 10 when testing interval required by NFPA 10 is within the warranty period.
 - b. Faulty operation of valves or release levers.
 - 2. Warranty Period: Six (6) years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."
- B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.

2.2 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS <Edit for Project>

- A. Fire Extinguishers: Type, size, and capacity for each type of extinguisher indicated below:
 - 1. Multipurpose Dry-Chemical Type: Kidde Model FX340SC-2, 3A:40B:C, 5 lb.
 - 2. Carbon Dioxide Type: Amerex Model 322, 5B:C, 5 lb.
 - 3. Carbon Dioxide Type, MR Conditional: Badger Model B5V-2 MR, 5B:C, 5 lb.
 - 4. Carbon Dioxide, High-Voltage Rooms: Buckeye Model 46100, 10B:C, 15 lb.
 - 5. Clean-Agent Type, MR Conditional: Ansul Model FE13NM, 1A:10B:C 20 lb.
- B. Accessories: Provide the following accessories as indicated on the drawings and details:
 - 1. Mounting bracket for exposed wall fire extinguishers
 - 2. Fire extinguisher cabinet for concealed installation.

2.3 WHEELED FIRE EXTINGUISHERS

<Insert drawing designation or delete if not required>

- A. Wheeled Fire Extinguishers: Type, size, and capacity for locations indicated, complete with carriage.
 - 1. Dry-Chemical Type: Amerex Model B570, Class D 30 lb.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine fire extinguishers for proper charging and tagging.
 - 1. Remove and replace damaged, defective, or undercharged fire extinguishers.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install fire extinguishers in locations indicated and in compliance with requirements of authorities having jurisdiction.
 - 1. All extinguishers installed in finished spaces (labs, offices, corridors, lobbies, etc.) shall be installed in cabinets in accordance with Section 104413 "Fire Protection Cabinets."
 - 2. All extinguishers installed in unfinished spaces (mechanical rooms, switchgear rooms, etc.) shall be wall-mounted with manufacturer's bracket.
 - a. Mounting Brackets: Top of fire extinguisher shall be at 42 inches above finished floor.
 - b. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.

END OF SECTION 104416