

SECTION 10520 - FIRE PROTECTION SPECIALTIES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 1. Portable fire extinguishers.
 2. Smoke detectors
 3. Carbon Monoxide detectors
 4. Carbon Monoxide/Smoke detectors

1.03 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for fire-protection specialties.
 1. Fire Extinguishers: Include rating and classification.
 2. Smoke Alarms: Include model number, operating voltage, and rating.
 3. Carbon Monoxide Alarms: Include model number, operating voltage, and ratings.
 4. Carbon Monoxide/Smoke Detectors Alarms: Include model number, operating voltage, and ratings.
- B. Samples for Initial Selection: Manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available for each type of cabinet finish indicated.

1.04 QUALITY ASSURANCE

- A. Fire Extinguishers:
 1. Source Limitations: Obtain fire extinguishers through one source from a single manufacturer.
 2. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Standard for Portable Fire Extinguishers."
 3. Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction. Provide extinguishers listed and labeled by FM.
- B. Smoke Alarms:
 1. Source Limitations: Obtain smoke alarms through one source from a single manufacturer
 2. NFPA Compliance: Fabricate and label smoke alarms to comply with NFPA 72, "National Fire Alarm and Signaling Code."
 3. Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction. Provide smoke alarms listed and labeled by FM
- C. Carbon Monoxide/Smoke Alarms:
 1. Source Limitations: Obtain carbon monoxide through one source from a single manufacturer
 2. NFPA Compliance: Fabricate and label smoke alarms to comply with NFPA 72 , "National Fire Alarm and Signaling Code," and NFPA 720, "Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment."
 3. Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction. Provide smoke alarms listed and labeled by FM.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Portable Fire Extinguishers:
 - a. J.L. Industries, Inc.
 - b. Larsen's Manufacturing Company.
 - c. Potter-Roemer; Div. of Smith Industries, Inc.
 - 2. Smoke Detector/ Carbon Monoxide
 - a. Gentex Corp.
 - b. Kidde
 - c. First Alert

2.02 PORTABLE FIRE EXTINGUISHERS

- A. General: Provide fire extinguishers of type, size, and capacity for each cabinet and other locations indicated.
- B. Multipurpose Dry-Chemical Type: UL-rated 1-A:10-B:C, 5-lb (1.1-kg) nominal capacity, in enameled-steel container.

2.03 SMOKE DETECTOR AND CARBON MONOXIDE

- A. General: Provide carbon monoxide and smoke detectors as required by code. Detector shall be interconnected and hardwired with battery backup.
- B. Provide detectors as shown on drawings.
- C. Photoelectric Smoke Alarm Type: UL-listed 217, 120 VAC, 9 VDC battery back-up
- D. Photoelectric Carbon Monoxide Type: UL-listed 217/2034 , 120 VAC, 9 VDC battery back-up

2.04 ACCESSORIES

- A. Mounting Brackets: Manufacturer's standard steel, designed to secure extinguisher and CO/smoke alarms, of sizes required for types and capacities of extinguishers and CO/alarms indicated, with plated or baked-enamel finish or brackets.
 - 1. Provide brackets for extinguishers.
- B. Batteries: Manufacturer's requirement as back-up in the event building power is lost, Alkaline 9VDC (Duracell M N 1604), shall be verified by the circuit of the smoke/CO alarm.
 - 1. Provide batteries for smoke alarms and Carbon Monoxide/smoke alarms.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Fire Extinguishers
 - 1. Examine walls and partitions for suitable blocking.
 - 2. Examine fire extinguishers for proper charging and tagging.
 - a. Remove and replace damaged, defective, or undercharged units.
 - 3. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. Carbon Monoxide/Smoke Alarms
 - 1. Examine walls, fixtures, and partitions for interference and blocking.
 - 2. Examine the battery indicator for low battery power, missing battery, or high impedance.
 - 3. Inspect mounting brackets for loose, unsecure and unstable connections.

4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Fire Extinguishers

1. Comply with manufacturer's written instructions for installing fire-protection specialties
2. Install in each unit kitchen at locations and mounting heights indicated or, if not indicated, at locations and heights acceptable to the Owner.
 - a. Fasten mounting brackets to structure, square and plumb.

B. Carbon Monoxide/Smoke Alarms

1. Comply with manufacturer's written instructions for installing fire-protection specialties.
2. Install in each unit at locations and mounting heights and ceilings indicated or, if not indicated, at locations and heights acceptable to the Owner.
 - a. Fasten mounting brackets to structure, square and plumb.

END OF SECTION 10520

2019