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For more information, contact Potter Roemer Fire Pro, Morris Group International, 17451 Hurley Street, City of Industry, CA 91744; Phone: (800) 366-3473 | (626) 855-4890; Fax: (888) 404-7960; Website: <https://www.potterroemer.com/home>; Email: info@potterroemer.com.

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SECTION 104416 - FIRE EXTINGUISHERS

TIPS:

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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 portable, hand-carried fire extinguishers[**and mounting brackets for fire extinguishers**].
- B. Related Requirements:

1. Section 104413 "Fire Protection Cabinets."
2. Section 211100 "Facility Fire-Suppression Water-Service Piping" for hose systems, racks, and valves.
3. Section 233813 "Commercial-Kitchen Hoods" for fire-extinguishing systems provided as part of commercial-kitchen exhaust hoods.

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 extinguisher[**and mounting brackets**].
- B. Product Schedule: For fire extinguishers. Coordinate final fire-extinguisher schedule with fire-protection cabinet schedule to ensure proper fit and function.[**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 in accordance with 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**] **<Insert number>** 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.
 - 1. Provide fire extinguishers approved, listed, and labeled by [UL] [and] [FM Global].

2.2 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS

- A. Fire Extinguishers: Type, size, and capacity for each [fire-protection cabinet] [and] [mounting bracket] indicated.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Potter Roemer Fire Pro, Morris Group International; Models as specified below or comparable product by one of the following:
 - a. Amerex Corporation.
 - b. Ansul by Johnson Controls Company.
 - c. Babcock-Davis.
 - d. Badger Fire Protection.
 - e. Buckeye Fire Equipment Company.
 - f. Fire End & Croker Corporation.
 - g. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - h. Kidde Residential and Commercial Division.
 - i. Larsens Manufacturing Company.
 - j. Nystrom.
 - k. <Insert manufacturer's name>.
 - 2. Source Limitations: Obtain fire extinguishers, fire-protection cabinets, and accessories, from single source from single manufacturer.
 - 3. Valves: Manufacturer's standard.
 - 4. Handles and Levers: Manufacturer's standard.
 - 5. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B[, and bar coding for documenting fire-extinguisher location, inspections, maintenance, and recharging].
- B. Multipurpose Dry-Chemical Type in Steel Container <Insert drawing designation>: UL-rated [1-A:10-B:C, 2.5-lb (1.1-kg)] [2-A:10-B:C, 5-lb (2.3-kg)] [3-A:40-B:C, 5-lb (2.3-kg)] [3-A:40-B:C, 6-lb (2.7-kg)] [4-A:80-B:C, 10-lb (4.5-kg)] [20-A:120-B:C, 20-lb (9.1-kg)] nominal capacity, with monoammonium phosphate-based dry chemical in enameled-steel container.

1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model [3002] [3005] [3005-5] [3006] [3010] [3020] or comparable product.
- C. Carbon Dioxide Type <Insert drawing designation>: UL-rated [5-B:C, 5-lb (2.3-kg)] [10-B:C, 10-lb (4.5-kg)] [10-B:C, 15-lb (6.8-kg)] [10-B:C, 20-lb (9.1-kg)] nominal capacity, with carbon dioxide in enameled-aluminum container.
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model [3405] [3410] [3415] [3420] or comparable product.
- D. "Halotron 1" Clean-Agent Type in Steel Container <Insert drawing designation>: UL-rated [1B:C, 1.4-lb (.63-kg)] [2B:C, 2.5-lb (1.1-kg)] [5-B:C, 5-lb (2.2-kg)] [1-A:10-B:C, 11-lb (5-kg)] [2-A:10-B:C, 15.5-lb (7-kg)] nominal capacity, with HFC blend agent and inert material in enameled-steel container; with pressure-indicating gauge.
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model [3101] [3102] [3105] [3111] [3115] or comparable product.
- E. Stored-Pressure Water Type <Insert drawing designation>: UL-rated 2-A, 2.5-gal. (9.5-L) nominal capacity, with water in stainless steel container; with pressure-indicating gauge.
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model 3202 or comparable product.
- F. Stored-Pressure Water-Mist Type <Insert drawing designation>: UL-rated 2-A:C, 2.5-gal. (9.5-L) nominal capacity, with water in enameled-steel container; with pressure-indicating gauge.
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model 3272 or comparable product.
- G. Pressurized, AR-AFFF-Foam Type <Insert drawing designation>: UL-rated 3-A:20-B, 2.5-gal. (9.5-L) nominal capacity, with AR-AFFF foam in stainless steel container; with pressure-indicating gauge.
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model 3250 or comparable product.
- H. "K Class" Wet-Chemical Type <Insert drawing designation>: UL-rated 2-A:K, [1.6-gal. (6-L)] [2.5-gal. (9.5-L)] nominal capacity, with potassium acetate-based chemical in stainless steel container; with pressure-indicating gauge.
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model [3260] [3262] or comparable product.
- I. Regular Dry-Chemical Type in Steel Container <Insert drawing designation>: UL-rated [10-B:C, 2.5-lb (1.1-kg)] [10-B:C, 5-lb (2.3-kg)] [40-B:C, 5.5-lb (2.5-kg)] [40-B:C, 6-lb (2.7-kg)] [60-B:C, 10-lb (4.5-kg)] [120-B:C, 20-lb (9.1-kg)] nominal capacity, with sodium bicarbonate-based dry chemical in enameled-steel container.

1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model [3302] [3305] [3305-5] [3306] [3310] [3320] or comparable product.
 - J. Multipurpose Cartridge-Operated Dry-Chemical Type in Steel Container <Insert drawing designation>: UL-rated [4-A:60B:C, 10-lb (4.5-kg)] [20-A:80B:C, 20-lb (9-kg)] [20-A:120B:C, 25-lb (11.3-kg)].
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model [3052] [3054] [3056] or comparable product.
 - K. Purple-K Cartridge-Operated Dry-Chemical Type in Steel Container <Insert drawing designation>: UL-rated 120-B:C, 28.5-lb (13-kg) nominal capacity, with potassium bicarbonate-based dry chemical in enameled-steel container.
 1. Basis of Design: Potter Roemer Fire Pro, Morris Group International; Model 3356 or comparable product.
- 2.3 MOUNTING BRACKETS <Insert drawing designation>
- A. Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with red baked-enamel finish.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide Potter Roemer Fire Pro, Morris Group International; Model 3900 Series or comparable product by one of the following:
 - a. Amerex Corporation.
 - b. Ansul by Johnson Controls Company.
 - c. Babcock-Davis.
 - d. Badger Fire Protection.
 - e. Buckeye Fire Equipment Company.
 - f. Fire End & Croker Corporation.
 - g. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - h. Kidde Residential and Commercial Division.
 - i. Larsens Manufacturing Company.
 - j. Nystrom.
 - k. <Insert manufacturer's name>.
 2. Source Limitations: Obtain mounting brackets and fire extinguishers from single source from single manufacturer.
 - B. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.
 1. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface.
 - a. Orientation: [Vertical] [Horizontal].

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[**and mounting brackets**] in locations indicated and in compliance with requirements of authorities having jurisdiction.
 - 1. Mounting Brackets: Top of fire extinguisher to be at [**42 inches (1067 mm)**] **<Insert dimension>** above finished floor.
- B. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.

END OF SECTION 104416