

This Manu-Spec® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. A Manu-Spec is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

This Manu-Spec specifies portable fire extinguishers manufactured by Rusoh. Revise Manu-Spec section number and title below to suit project requirements, specification practices and section content. Refer to CSI MasterFormat for other section numbers and titles.

10 44 16 FIRE EXTINGUISHERS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Fire Extinguishers.
 2. [].

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI MasterFormat and specifier's practice.

- B. Related Sections:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. [Section 104413 – Fire Extinguisher Cabinets].
2. [].

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions Section 01 42 00 - References may establish the edition date of standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

1.2 REFERENCE STANDARDS:

- A. UL LLC (UL):
1. UL 299 – Dry Chemical Fire Extinguishers.

2. UL 711 – Rating and Fire Testing of Fire Extinguishers.

B. National Fire Prevention Association (NFPA):

1. NFPA 10 – Standard for Portable Fire Extinguishers.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Contract Conditions and Section 01 33 00 – Submittal Procedures.

1.3 SUBMITTALS

A. Product Data: Standard specifications, and descriptive literature for primary and secondary products, including:

1. Spec-Data product information sheets.
2. Catalog cut-sheets.
3. Safety Data Sheets (SDS).
4. Sample warranty forms.

Specifier Note: Specify submittals to document manufacturer's storage, installation and other instructions.

B. Manufacturer's Instructions, including:

1. Delivery, storage and handling.
2. Preparation and Installation.
3. Maintenance.

Specifier Note: Rusoh provides an 8-year warranty to original owner of Rusoh Eliminator fire extinguishers. Coordinate with Contract Conditions and Section 01 78 36 – Warranties.

C. Product Warranty: Manufacturer's 8-year limited warranty against defects in material and workmanship.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Specialized in installation of fire extinguishers required for this Project.

B. Installation Documents: Maintain manufacturer's installation instructions, contract documents, approved submittals, and related documents on-site to confirm acceptable installation.

1.5 DELIVERY, STORAGE AND HANDLING

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 60 00 – Product Requirements.

A. Deliver, store and handle fire extinguishers in accordance with manufacturer's instructions.

B. [].

1.6 ACCESSORIES

A. Wall Mount Bracket (supplied with unit).

Specifier Note: If installed in an extinguisher cabinet, the cabinet minimum depth must equal six inches or greater.

B. Third party extinguisher cabinet.

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal", "approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.1 FIRE EXTINGUISHERS

Specifier Note: Include in the following Paragraph; manufacturer's name, address, phone number, fax number, email address and website URL.

A. Manufacturer: Rusoh, Inc.: 3925 North Hastings Way; Eau Claire, WI 54703; Phone: 800-318-2944; Fax: 715-839-2122; Email:

contact@rusoh.com; Website: www.rusoh.com .

1. Single Source Responsibility: Furnish primary products, secondary products, and warranty for work of this Section from same source.

Specifier Note: Substitution procedures must either be in the Contract Conditions or in Section 01 25 00 – Substitution Procedures. Do not include substitution procedures here.

2. Substitutions: Not allowed.

Specifier Note: Include an overall description of the system, assembly, product or material. Include required properties or characteristics that do not obviously belong under other titles. Examples: Configuration, size and color.

- B. Description: Rusoh Eliminator self-service, reloadable, dry chemical fire extinguishers; meeting UL 299, UL 711, and NFPA 10; with hose, luminescent hose clip, integrated nozzle and valve assembly, and initial inspection certification tag.
 1. Design: Non-pressurized with CO₂ cartridge activation; reloadable on-site.
 2. Material: Polymeric.
 3. Operation: Twist lock to break tamper seal, push charging lever down to pressurize, and squeeze handle on valve assembly to release extinguishing agent.
 4. Installation Method: Wall brackets, or fire extinguisher cabinets specified in Section 104413.

Specifier Note: Select one or both types as required for Project. Note location of fire extinguishers on submittals, or schedule in PART 3, Attachments.

- C. Types:
 1. [Multi-Purpose Dry Chemical: 09300; portable, single-use, with monoammonium phosphate extinguishing agent suitable for Class A, B, and C fires; UL listed and labeled.
 - a. Rating: 3A:40B:C.
 - b. Capacity: 5 pounds (2.3 kg).
 - c. Weight: 12.1 pounds (5.5 kg).
 - d. Size: 16¾ inch (425 mm) high by 8½ inch (216 mm) wide by 5⅛ inch (144 mm) deep].
 2. [Regular Dry Chemical: 09304; portable, single-use, with potassium bicarbonate extinguishing agent suitable for Class B, and C fires; UL listed and labeled.
 - a. Rating: 40B:C.
 - b. Capacity: 5 pounds (2.3 kg).
 - c. Weight: 12.5 pounds (5.7 kg).
 - d. Size: 16¾ inch (425 mm) high by 8½ inch (216 mm) wide by 5⅛ inch (144 mm) deep].

2.2 ACCESSORIES

- A. Lettering: "FIRE EXTINGUISHER" decal, or vinyl self-adhering, pre-spaced black lettering in accordance with authorities having jurisdiction.

Specifier Note: Select brackets as required for Project. Note location of brackets on submittals, or schedule with fire extinguishers in PART 3, Attachments.

- B. [Marine Bracket: 85995, with attachment hardware].
- C. Reloading Wrench Set: 81500, 2-pieces.
- D. Fluffing Wrench: 81524. Fits into base of extinguisher for turning fluffing wheel mixing device to assure dry chemical extinguishing agent is free-flowing, and ready for discharge. Used during regular monthly inspections.

Specifier Note: Select one or both reloading kits as required for Project.

- E. [ABC Reloading Kit: 85994, 5-pound].
- F. [BC Reloading Kit: 81568, 5-pound].

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify, with installer present, that conditions of work previously installed under other sections or contracts are acceptable for installation of fire extinguishers in accordance with manufacturer's instructions, contract documents, and approved submittals.

1. Notify [Architect] of unacceptable conditions upon discovery.
2. Do not proceed with preparation and installation until unacceptable conditions are corrected.

B. Confirm:

1. Required locations for types, ratings, and capacities of fire extinguishers in accordance with NFPA 10, and authorities having jurisdiction.

Specifier Note: Select paragraph for bracket mounted fire extinguishers as required for Project.

2. [Hollow walls and partitions are reinforced, or otherwise acceptable to support weight of bracket mounted fire extinguishers.]
3. [].

Specifier Note: Specify actions required to prepare the surface, area or site for incorporation of the section's primary products. Describe requirements for exposure or removal of existing assemblies, components, products or materials.

3.2 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of primary products.

- A. Prepare substrate to receive fire extinguishers in accordance with manufacturer's instructions, contract documents, and approved submittals.
- B. [].

3.3 INSTALLATION

- A. Install fire extinguishers in accordance with manufacturer's instructions, contract documents, and approved submittals.
- B. Apply "FIRE EXTINGUISHER" lettering horizontally, as directed by [Architect], following field painting, or finishing of mounting surfaces.
- C. Repair damage to adjacent surfaces caused by installation of fire extinguishers.
- D. [].

3.4 CLEANING

- A. Clean-up packaging, waste material, and construction debris daily during installation; dispose of in accordance with authorities having jurisdiction.
- B. [].

Specifier Note: Specify protection methods completed after installation, but prior to acceptance by the owner. Protection of surrounding areas and surfaces during application or installation is included under PART 3, Preparation. Include only statements unique to this Section.

3.5 PROTECTION

- A. Protect installed products from damage during on-going construction work until Final Inspection, and acceptance by [Architect].
- B. [].

Specifier Note: Specify maintenance services for critical systems, equipment, and landscaping. Service agreements, if not paid in advance, should be separate from the construction contract to avoid delay of final payment, and contract closeout. Coordinate the following Article with Sections 01 78 00 - Closeout Submittals and 01 78 23 Operation and Maintenance Data.

3.6 MAINTENANCE

- A. Monthly Inspections: Inspect and self-service fire extinguishers on monthly basis in accordance with manufacturer's instructions, and authorities having jurisdiction.
- B. Annual Inspections: Inspect and self-service fire extinguishers on annual basis in accordance with manufacturer's instructions, and authorities having jurisdiction.
- C. Inspection Certification Tag: Provide new tag indicating acceptable condition of fire extinguisher, date of inspection, and name of self-service inspector for each inspection.

3.7 ATTACHMENTS

Specifier Note: Schedules are sometimes placed in the specifications rather than on drawings. Include schedules that indicate

item/element/product/equipment, location and other coordinating data.

A. Fire Extinguisher Schedule:

B. .

END OF SECTION