

January 2012, Rev 00

10 4400 – Fire Protection Specialties

PART 1. GENERAL

1.01 NIU Issues

- A. To the greatest extent possible, a cabinet shall be installed in an accessible corridor for every fire extinguisher required. Travel distance to a cabinet/extinguisher shall not exceed 75 feet, except that it shall not exceed 50 feet in areas that house flammable liquids.
- B. Fire extinguishers are maintained by NIU department of Environmental Health and Safety. Cabinets will be sized to accommodate the following unless otherwise specified:
 - 1. One 2½ gallon water pressure extinguisher.
- C. Fire extinguisher cabinets will be recessed unless existing conditions make semi-recessed or surface mounting necessary. Cabinets will be non-rated unless being installed in a fire rated wall.
- D. Specialty fire protection equipment, which includes but is not limited to, fire blankets and associated cabinets, will be addressed by the Project Manager and/or Project Architect.

1.02 Quality Assurance

- A. Furnish all fire extinguishers and brackets by one manufacturer. Furnish all specified fire extinguisher cabinets by one manufacturer as approved by Owner.
- B. Regulatory Requirements:
 - 1. National Fire Protection Association (NFPA) 10, most current version.
 - 2. Illinois Administrative Code 41, Chapter 1, Part 100 Fire Prevention and Safety

1.03 Summary

- A. This Section includes the following:
 - 1. Fire-protection cabinets for the following:
 - a). Portable fire extinguishers
 - 2. Signage for fire-protection cabinets.

3. Standard fire extinguishers utilized at NIU.

1.04 Submittals

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for fire-protection cabinets.
 - 1. Fire-Protection Cabinets: Include roughing-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type, trim style, and panel style.
- B. Certification that fire extinguishers comply with classifications and requirements.

PART 2. PRODUCTS

2.01 Fire Protection Cabinet

- A. Manufacturers:
 - 1. Larsen's Manufacturing Company, or equal approved by Owner.
- B. Cabinet Material: Aluminum or Stainless-steel sheet.
- C. Door Style:
 - 1. In academic buildings: wired glass panel in frame.
 - 2. In residence halls: solid metal door.
- D. Door Hardware:
 - 1. Friction or magnetic catch and a pull handle.
 - 2. Provide continuous hinge, of same material and finish as trim permitting door to open 180 degrees.
- E. Accessories:
 - 1. Identification: Identify fire extinguisher in fire-protection cabinet with the words "FIRE EXTINGUISHER" in raised 2" lettering, applied to cabinet door.

2.02 Fire Protection Cabinet Fabrication

- A. Fire-Protection Cabinets: Provide manufacturer's standard box, with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated.

2.03 Fire Extinguishers

- A. Provide new extinguishers for each location shown on drawings, labeled and approved by acceptable testing agency.

1. Fire extinguishers shall be Ansul Sentry, Model AA05-1, 3A40BC, 5 lb. unless otherwise specified.

2.04 Fire Extinguisher Wall Signage

- A. Provide and install High Visibility, 3-dimensional, triangle-projection mounted sign above each fire extinguisher cabinet.

1. Material: Acrylic.
2. Size: 6 inches high, 9 inches wide, 4 inches deep with 2 mounting holes.
3. Signage wording: “FIRE Extinguisher” with down arrow, or as required by Authority Having Jurisdiction.
4. Color: Red background with white signage.
5. Installation: Surface mounted.

PART 3. EXECUTION

3.01 Examination

- A. Examine walls and partitions for suitable framing depth and blocking where recessed and semi-recessed cabinets will be installed.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 Installation

- A. General: Install fire-protection specialties in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction.
- B. Fire-Protection Cabinets: Fasten fire-protection cabinets to structure, square and plumb.

End of Section 10 4400

This section of the NIU Design and Construction Standards establishes minimum requirements only. It should not be used as a complete specification.