

**DESIGN CRITERIA**

1. Related Sections: See related Division 21 and 23 Design Criteria.
2. This Section includes portable fire extinguishers, fire extinguisher cabinets, and fire protection accessories.
3. Design and placement of fire extinguishers shall be in accordance with NFPA 10 *Standard for Portable Fire Extinguishers* with locations clearly identified on the Drawings.
4. Extinguishers to be multipurpose dry chemical with a minimum rating of 4A:80B:C rated. Extinguishers located in customer and administrative office areas shall be provided with semi-recessed cabinets. Extinguishers located in warehouse and other similar areas shall be mounted on walls with manufacturer standard fire extinguisher hooks.
5. Per UFC 3-600-01 9-17.1, general purpose fire extinguishers must be installed where required by NFPA 101. Per NFPA 101 36.3.5.3, 38.3.5, Portable fire extinguishers shall be provided in all mercantile and business occupancies respectively.
  - A. Clean Agent extinguishers must be used in Electronic Equipment Areas.
  - B. Carbon Dioxide extinguishers may only be used in rooms more than 1,000 square feet.
6. Extinguishers shall be located throughout the building with a maximum 75' travel distance and each extinguisher shall have a maximum coverage area of 1500 square feet per unit of A, up to 6,000 square feet for a 4A extinguisher per NFPA 10 Table 6.2.1.1. Commissaries are considered to be Ordinary Hazard per Code Analysis document.
7. One extra B rated extinguisher shall be installed near locations that have the possibility of flammable liquids fires, such as Deli/Bakery, break rooms, and food prep areas per NFPA 1 13.6.3.1.1.2 and NFPA 10 6.1.1.2.
8. Commissary facilities with Deli Departments containing a 1D09 rotisserie, and/or 1D10-B combo-steamer ovens, or other grease-laden vapor producing cooking appliance shall require a vented hood with a built-in fire suppression system. A minimum 6Liter (1.8-gallon) wet chemical (UL Rating 2-A:K) extinguisher is required to supplement this system, and shall be located in the immediate vicinity of the hood.
9. Coordinate placement of extinguisher cabinets with to avoid wall mounted wood bumper rails, hose bibs, and other concealed utilities within walls.
10. Locate fire extinguisher cabinets to comply with the guidelines of the ABA Accessibility Standard for Department of Defense Facilities.
11. Above each cabinet-mounted extinguisher and all other extinguishers that are not readily visible per NFPA 10 6.1.3.3.2, a wall-mounted sign shall be installed in close proximity to the extinguisher and visible from the normal path of travel.
12. Extinguisher location signs shall be a triangular acrylic sign able to be viewed from multiple directions similar to Brady "Tall Fire Extinguisher 'V' Sign" Part number SP818V.

**END OF SECTION**