

SECTION 10520

FIRE PROTECTION SPECIALTIES

PART 1 DESIGN DIRECTIVES

1.1 LOCATIONS

- A. Consultant *is required* to review location of extinguishers with the Town of Hanover Fire Department.
- B. Confer with DC Facilities Planning Office regarding the use of cabinets or exposed hangers.
- C. Do not locate extinguishers in stair assemblies.

~~D. Provide extinguishers in mechanical and elevator machine rooms.~~

1.2 ~~DEPARTMENTAL~~ GENERAL REQUIREMENTS

- A. All portable fire extinguishers installed in *public areas of* Residential Life buildings shall be *2.5 gallon* water type *except as noted below*.
 - 1. *Kitchens shall have 5# type ABC.*
- B. *Size all extinguishers per latest edition of NFPA 10 using 10# cylinders (ABC & CO₂) as the basis of design.*
- C. *All mechanical spaces shall have type ABC.*
- D. *Electric rooms, including generator rooms, shall have type BC (CO₂).*
- E. *Combination electric and mechanical rooms shall have type BC (CO₂).*
- F. *Elevator machine rooms shall have type ABC.*

PART 2 PRODUCTS

2.1 PORTABLE FIRE EXTINGUISHERS

- A. Provide fire extinguishers with UL rating and capacity required to cover the hazard. Class BC and ABC should use clean agent for delicate equipment. Use class BC (carbon dioxide) if moisture will damage the equipment.
- B. Manufacturers:
 - 1. Amerex
 - 2. Ansul

2.2 FIRE EXTINGUISHER CABINET

- A. Cabinets and doors shall be constructed of painted steel with all surfaces coated to prevent corrosion.

- B. Semi-recessed cabinets shall include all trim to provide a neat appearance and shall be securely attached to the structure.
- C. Doors shall have:
 - 1. A tempered glass vision light.
 - 2. A projection type cam action latch.
 - a. Latch shall not have a cylinder lock.
- D. Doors shall open 180°.

2.3 SURFACE MOUNTED FIRE EXTINGUISHERS

- A. Mounting brackets shall be pre-painted galvanized steel constructed to support the intended weight of the extinguisher.

2.4 IDENTIFICATION

- A. Provide non-illuminated sign(s) above the extinguisher clearly identifying the extinguisher location. Provide single dimensional or three dimensional signs to suit conditions.
- B. Manufacturers:
 - 1. Single dimensional
 - a. Brady #85261
 - b. Emedco #QS4-230 (12" x 4")
 - 2. Three dimensional
 - a. Emedco #43549 (12" x 7 1/2")

PART 3 EXECUTION

3.1 INSTALLATION

- A. Insure suitable blocking has been installed prior to installation of extinguishers. Where blocking has not been installed, attach a 3/4" thick board at least 2" larger in all directions than the fire extinguisher or cabinet for the extinguisher/cabinet to be attached.
- B. All extinguishers shall be new and bear an inspection tag indicating the device is has been inspected within the past three months.
- C. Install bottom of surface mount extinguishers no more than 27" above finish floor in conformance with current ADA requirements.
- D. Review locations of all extinguishers with the authority having jurisdiction.
- E. Extinguishers shall be installed before the building is occupied.
- F. Indicate on the as-built plans the size and location of all extinguishers.

END OF SECTION 10520