

OKLAHOMA STATE UNIVERSITY - BUILDING DESIGN STANDARDS

PART 1 GENERAL

1.01 EMERGENCY SHOWERS AND EYE WASHES - The locations of these safety devices should be within 50 feet or 10 seconds of a chemical or biological substance deemed hazardous. The use of the latest ANSI Z358 standard for these safety devices should be specified. ANSI requires the water to be tepid and/or tempered. The devices should not be obstructed or be located near other hazards such as electrical outlets and panels.

A. EMERGENCY AID SPECIALTIES

1. FIRST AID CABINETS

- a. DESIGNS: First Aid cabinets shall be furnished and installed by the Contractor and shall be OSHA approved and sized to the using population. The quantity, selection and locations of First Aid Cabinets are subject to the review and approval of the OSU Architecture Services and designated University personnel.

B. FIRE PROTECTION SPECIALTIES

1. FIRE EXTINGUISHER CABINETS

- a. DESIGNS: All portable fire extinguishers and non-valve cabinets shall be furnished and installed by the Contractor. All portable fire extinguishers and components shall conform with National Fire Protection Association (NFPA) Pamphlet 10, latest edition. Each extinguisher shall be approved by Underwriter's Laboratory (UL) and bear their label.
- b. Provide each locked, break glass fronted fire equipment cabinet with a knocker or other glass breaking means. Attach knocker in a manner that will allow breaking of glass without removing knocker.
- c. An acceptable means of identifying fire extinguisher location must be done by an arrow type sign. See Appendix A, a-1-6.5 of NFPA pamphlet 10.
- d. Cabinets shall be painted steel, flanged recessed (similar to fire hose cabinets), lockable and comparable to the preferred Duo Panel Break Glass style of cabinet manufactured by Larsen's Fire Protection and Safety Equipment. Lock shall be manufactured by Detroit Auto Specialties and shall have a CH751 key. The full fire rating and acoustical rating of the structure walls must be maintained.

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- e. Refer to NFPA pamphlet 10, chapters 2, 3, and 4. Chapter 2 is used to determine the classification of potential fires and the rating or relative fire extinguishing effectiveness of various types of extinguishers. Chapter 3 assists in selection of extinguishers which is dependent upon the character of anticipated fires, property construction and occupancy, the vehicle or hazard to be protected, ambient temperature conditions, and other factors. The maintenance of extinguishers is determined by Chapter 4.
 - f. APPROVALS: The selection and locations of fire extinguishers are subject to the review and approval of the The OSU Authority have Jurisdicion and designated University personnel. Extinguishers meeting the described requirements, including those manufactured by Fire Chief, Kidde, and General, will be considered for acceptance.
 - g. CONSTRUCTION COORDINATION: Penetration of walls by cabinets or other penetrations, unless openings and voids are sealed with fireproof materials, is prohibited. Fire-rated walls must not have the rating reduced by penetrations or reduction of thickness.
2. FIRE EXTINGUISHERS
- a. DESIGNS: All fire extinguishers are to be complete, tested, certified, ready for use and conform to the following:
 - i CARBON DIOXIDE EXTINGUISHERS: Red enameled-steel or aluminum equipped with valve, discharge hose and horn, squeeze-grip lever, and mounting bracket, if not cabinet installed. Minimum rating 5 BC.
 - ii MULTI-PURPOSE EXTINGUISHERS: Red enameled-steel, pressurized type equipped with pressure gauge, discharge nozzle, squeeze-grip lever, and mounting bracket, if not cabinet installed. These extinguishers are dry chemical for Class A, B, and C fires. Minimum rating 4A 60 BC.

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- iii SPECIAL EXTINGUISHERS: Fully equipped types for use on the specific Class D combustible metal hazards and Class K Food Service Operations. For computer rooms, expensive laboratory installations and similar locations, which must be protected from damage, provide Halon 1211 with at least 9 lbs. 1A 10BC rating.

END OF SECTION 10520