

# KENTFIELD FIRE PROTECTION DISTRICT



Developed by

Jim Galli, Battalion Chief

Approved by

Paul Smith, Fire Chief

## Fire Protection Standard 510A

### Storage Cabinet

Date: 1-1-04

Revision: \_\_\_\_\_

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This standard has been developed pursuant to Article 279 of the Uniform Fire Code as adopted by ordinance by the Kentfield Fire Protection District. It is intended that this standard be used as a guide for establishing a reasonable degree of fire and life safety for the storage of flammable and combustible liquids and limited amounts of hazardous materials inside buildings, where local ordinance may require approved storage cabinets.

#### A. General

1. For permits to store flammable or combustible liquids, refer to Fire Prevention Standard No. 510.
2. Storage cabinets shall be either listed by a nationally recognized testing laboratory or constructed in accordance with the provisions of this standard.
3. All cabinets shall be conspicuously labeled stating, "FLAMMABLE – KEEP FIRE AWAY". Letters shall be at least 3 inches high – red and on a white background.
4. Not more than 120 gallons of Class I, Class II and Class IIIA liquids may be stored in a storage cabinet. Of this total, not more than 60 gallons may be of Class I or Class II liquids.
5. Not more than three (3) cabinets shall be stored in the same room.

Exception: In an industrial occupancy, cabinets in groups not exceeding three may be located in the same room, provided they are spaced from other cabinets by not less than 100 feet.

#### B. Construction

Cabinets may be constructed of wood or metal. Cabinets shall be listed by a nationally recognized testing laboratory or constructed in accordance with the following:

1. Unlisted Metal Cabinets – See Figure 1
  - a. Metal Cabinets shall be of steel having a thickness of not less than 0.043 inch.
  - b. The cabinet, including the door, shall be double walled with 1 ½" airspace between the walls.
  - c. Joints shall be riveted or welded and shall be tight fitting.
  - d. Doors shall be well fitted, self-closing and equipped with a three point latching

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device.

- e. The bottom of the cabinet shall be liquid tight to a height of at least 2” to retain spilled liquid within the cabinet.

#### 2. Wooden Cabinets – See Figure 2

- a. Wooden cabinets, including doors, shall be of not less than 1” exterior grade plywood.
- b. All joints shall be fastened in two directions with wood screws or through bolts.
- c. Doors shall be well fitted, self-closing and equipped with a latching device.

Note: Wooden cabinets do not require a three point latching device on the doors. When exposed to fire, wood does not tend to warp or distort.

- d. Doors shall be equipped with a means of latching and hinges constructed and mounted in such a manner as to not lose their holding capacity when exposed to fire.
- e. The bottom of the cabinet shall be liquid tight to a height of at least 2” to retain spilled liquid within the cabinets.
- f. Cabinets shall be painted with an intumescent-type paint.

Note: Intumescent-type paints are fire retardant foam forming coating for application over Douglas Fir wood and other materials for which they were tested. All intumescent-type paints used on storage cabinets required in B(2)F shall be listed by International Conference of Building Officials or other nationally recognized testing laboratory.

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The following list of companies have available intumescent-type paint:

<u>Company Name</u>	<u>Listing Name</u>
Fire-Tect, Division of Bello Chemicals 3235 Whiteside Street Los Angeles, CA 90063	ICBO Report No. 3656 (June 1983)
Admiralty Manufacturing Co., Inc. P.O. Box 2187 Petaluma, CA 94952	ICBO Report No. 2874 (October 1984)

Note: Evaluation reports and companies listed above are to provide information to the consumer upon which this standard is based. The Fire Loss Management Division and the Kentfield Fire Protection District do not represent, endorse or recommend the above mentioned companies or their products but rather supply this information for the purpose of product availability pursuant to the requirements of the Uniform Fire Code.

