Table 13.5.: Storage of Liquids in Tank Buildings

ITEM	REQUIREMENTS
4. EQUIPMENT	i. Other equipment associated with tanks such as pumps, heaters, filters and exchangers shall not be located closer than 7.6 m to property lines or to nearest important structure. ii. Each liquid transfer connection on any tank storing Class I or Class II liquids inside building shall be provided with one of the following. a. A normally closed, remotely activated valve. b. An automatic-closing, heat-activated valve. c. Another approved device iii. Tanks shall be equipped with a device or means to prevent liquid overflow into the building, such as float valve, pre-set meter, low head pump incapable of preventing overflow or liquidtight overflow pipe that discharges by gravity back to the outside source of liquid.
5. FIRE ACCESS	i. Each storage tank building and each tank within the building shall be accessible from at least two sides for Fire fighting and fire control. ii. Such access shall be minimum of 1.2 m of aisles between storage tanks.
6. CONSTRUCTION	i. Storage tank buildings shall be constructed as to maintain structural integrity for 2 hours under fire exposure. Construction shall comply with **Chapter 1. Construction.** ii. A clear space of 1 m from top of the tank to roof or structure shall be maintained.
7. CONTAINMENT	i. Tank building shall be designed and constructed to prevent the discharge of flammable or combustible liquids to public ways, public sewers or adjoining property under normal conditions. ii. Except for drains, solid floors shall be liquid tight and walls shall be liquid tight where they join the floor and for at least 100 mm above the floor. iii. Openings to adjacent rooms or buildings shall be provided with noncombustible, liquid tight raised sills or ramps at least 100 mm in height. iv. Where basements are there, provisions shall be made such that liquid spills do not drain into basements and mechanical ventilation shall be provided for basements to vent off the vapors. v. Spill containment area of the tank storage building shall be sized exactly with same considerations as that of sizing an outside aboveground storage dike areas, with largest tank holding capacity.
8. HOUSE KEEPING	i. Combustible waste material and residues in operating areas shall be kept to a minimum, stored in covered metal containers and disposed of daily. ii. Storage of combustible materials and empty or full drums or barrels shall not be permitted within the large storage tank building.
9. OTHER APPLICABLE CODES FOR THE INDOOR STORAGE OF LIQUIDS	i. Fire Detection and Alarm System shall be provided in accordance with **Chapter 8. Fire Detection and Alarm System.** ii. Fire Protection System shall be provided in accordance with **Table 9.27.19., Chapter 9. Fire Protection Systems.** iii. Means of Egress shall comply with **Chapter 3. Means of Egress.** iv. Fire extinguishers shall be provided throughout in accordance with **Chapter 4. Fire Extinguishers.** v. Warning Signs and Exit Signs shall be provided in accordance with **Chapter 5. Exit Signs.** vi. Emergency Lighting shall comply with **Chapter 6. Emergency Lighting.**