Table 13.6.: Storage Vaults

ITEM	REQUIREMENTS
2. VAULT ARRANGEMENT	i. Separation distances required for above ground storage tanks as required by Table 13.4.7. shall be permitted to be reduced to 0 m, where tanks are installed in listed and approved vaults and as measured from the outer perimeter of the vault wall. ii. Vaults are permitted to be either above or below grade.
3. CONSTRUCTION OF VAULTS	i. The walls and floor of the vault are to be constructed of reinforced concrete of at least 150 mm thick. ii. The top and floor of the vault and the tank foundation must be designed to withstand all anticipated loading, soil loading, hydrostatic loading, including loading from vehicular traffic, if any. iii. vault must be liquid tight. iv. The vault enclosure must have no openings except those necessary for access, inspection of, and filling, emptying and venting of the tank. v. Vault must be provided with connections to permit ventilation to dilute, disperse and remove any vapors to prior to personnel entering the vault. vi. Vault must be provided with means of personnel entry. vii. Vault must be provided with an approved means to admit a fire suppression agent. viii. The top of an abovegrade vault that contains a tank storing Class I flammable liquid or Class II liquid when stored at temperatures above its flash point shall be constructed of noncombustible material and shall be designed to be weaker than the walls of the vault to ensure that the thrust of any explosion occurring inside the vault is directed upward before destructive internal pressure develops within the vault. ix. The top of an at-grade or belowgrade vault that contains a tank storing Class I flammable liquid or Class II liquid when stored at temperatures above their flash points shall be designed to relieve or contain the force of any explosion occurring inside the vault.

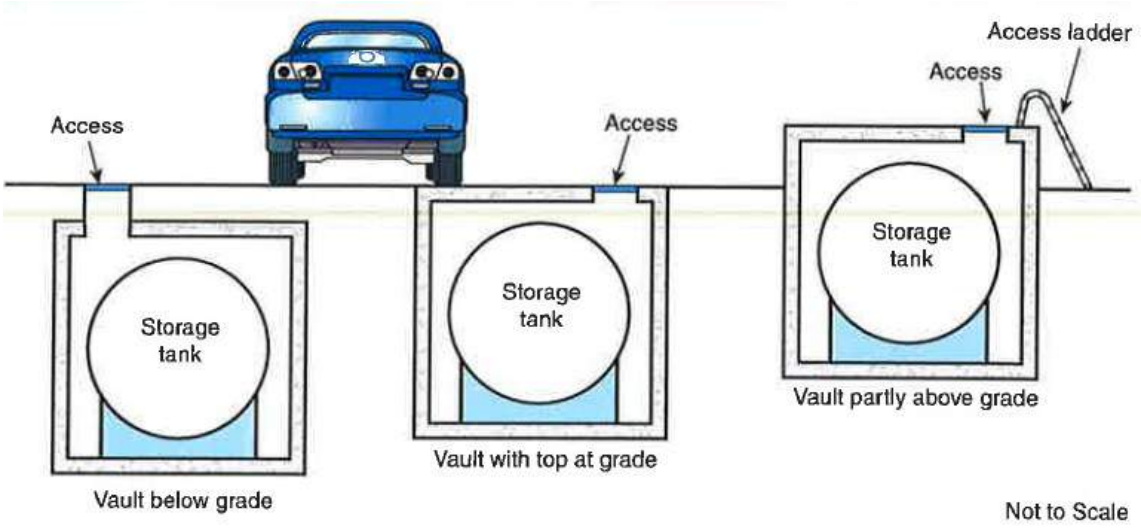

Figure 13.14.: Vault Installations with respect to Grade