

Table 13.4.: Storage of Liquids in Outdoor Fixed Tanks

| ITEM | REQUIREMENTS |
|---|--|
| 8. UNDERGROUND STORAGE TANKS | <u>1. LOCATION AND SPACING</u> <ul style="list-style-type: none"> i. Tank location shall be such that it shall not jeopardize structures, property and lives of own or the neighbors. ii. Underground tanks shall be located such that the existing building foundations and support loads are not transferred to the storage underground tank. iii. Distance from any part of a tank storing any liquid to the nearest wall of any basement or pit shall not be less than 0.3 m and to any property line shall not be less than 1 m. iv. Underground tanks shall not be located in areas that are prone to flooding. <u>2. INSTALLATION</u> <ul style="list-style-type: none"> i. Installation of all underground storage tanks shall be as per manufacturer's approved design and installation manual and recommendations. ii. Bedding and backfill shall be non-corrosive inert material of a type recommended by the manufacturer, such as compacted clean sand or compacted gravel. iii. Underground tanks shall be set on firm foundations and shall be set on minimum bedding depth as recommended by the manufacturer. iv. Bedding shall extend at least 300 mm in all directions beyond the perimeter of the tank. v. Underground tanks shall be surrounded with backfill to a depth of at least 300 mm or greater. vi. The backfill shall be evenly spread in 300 mm to 450 mm vertical lifts and shall be compacted as recommended by manufacturer. vii. Underground tanks shall be covered with one of the following <ul style="list-style-type: none"> a. At least 300 mm backfill, covered with 300 mm of clean earth. b. At least 300 mm of compacted backfill, on top of which a slab of reinforced concrete, at least 100 mm thick is placed. viii. Where tanks are subjected to traffic, they shall be protected against damage from vehicles passing over them by one of the following. <ul style="list-style-type: none"> a. At least 900 mm of backfill. b. At least 450 mm of compacted backfill of a type recommended by the tank manufacturer and at least 150 mm reinforced concrete slab. c. At least 450 mm compacted backfill of a type recommended by the tank manufacturer and at least 200 mm of asphalt concrete. ix. Maximum burial depth shall be as per manufacturer's recommendations. |
| 9. OTHER APPLICABLE CODES FOR THE OUTDOOR STORAGE OF LIQUIDS | <ul style="list-style-type: none"> 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 9.27.21., Chapter 9. Fire Protection Systems. iii. Fire extinguishers shall be provided throughout in accordance with Chapter 4. Fire Extinguishers. iv. Warning Signs and Exit Signs shall be provided in accordance with Chapter 5. Exit Signs. |