

Table 13.3.: Storage and Usage of Liquids in Warehouses and Industrial Occupancies

ITEM	REQUIREMENTS
4. OUTDOOR STORAGE IN CONTAINERS	<ul style="list-style-type: none"> i. The outdoor storage of liquids in containers shall comply with quantity and separation limitations as per Table 13.3.b. ii. No point in the outdoor storage shall be more than 60 m from a minimum of 6 m wide fire access way. iii. The outdoor storage area shall be graded in a manner to divert possible spills away from building and other exposures. They shall be surrounded by 150 mm high curb. Proper drain arrangement must be provided for collected spills and firefighting/rain water. iv. Where near public vicinity, the storage shall be sufficiently protected from unauthorized access and tampering. v. The storage area shall be kept free of weeds, debris and other combustible dust. vi. The storage area shall be permitted to be protected from weather by a canopy or roof. Such an open shed not limit <ul style="list-style-type: none"> a. The dissipation of heat b. Dispersion of flammable vapour c. Fire fighting access and control. vii. The wall of the building facing the storage must be 2 hours fire rated with appropriate opening protections to the complete length of the storage and an extended length of 3 m on both sides of the storage line of sight. viii. Minimum separation distance of 6 m must be maintained from the building where Class I & II liquids are stored and 3 m for Class III liquid. ix. Manual fire protection system shall be provided to cover the external storage in accordance with Chapter 9. The coverage and hose stream demand shall comply with Table 13.3.5.ii.

Table 13.3.b.: Outdoor Storage Quantities Limitation in Storage and Industrial Occupancies

LIQUID CLASS	MAQ PER PILE/ RACK ^{2, 4}	MAXIMUM STORAGE HEIGHT	BETWEEN PILES/ RACKS	TO THER OUTDOORS STORAGE	TO PROPERTY LINE ^{1, 4}	TO STREET, PUBLIC WAY ^{1, 4}
IA	1100 Gal.	2.4 m	1.5 m	3 m	30 m	6 m
IB	2200 Gal.	2.4 m	1.5 m	3 m	30 m	6 m
IC	4400 Gal.	2.4 m	1.5 m	3 m	30 m	6 m
II	8800 Gal.	3.6 m	1.5 m	3 m	15 m	3 m
III	22000 Gal.	3.6 m	1.5 m	3 m	6 m	3 m

Notes :

- Where public or private yard hydrants are available inline with this code, distance to property line, street, alley and public way shall be permitted to be reduced by half.
- MAQ indicated does not apply for rack storage. Racks must be 15 m in length and 2.7 m in depth.
- When two or more class of liquid are stored in same pile, the restriction for most hazardous liquid shall apply.
- If storage per pile is less than 50% of MAQ, the distance to property line, street, alley or public way can be reduced by 50 %.
- Where metal IBCs or portable tanks are stored, the MAQ can be doubled.
- Plastic IBCs or portable tanks are not permitted for outdoor storage of Class I liquid.