

2.5.4. On Roof LPG Tank installation

2.5.4.1. On roof, on podium, on elevated platform LPG Tank installation shall comply with requirements of **Section 2.5.1., 2.5.2., 2.5.4.** and **section 6.**

Table 11.7.: On roof LPG Tank Installation Guideline

ITEMS	REQUIREMENTS FOR ON ROOF LPG TANK INSTALLATIONS
1. LOCATION OF ROOF TOP TANKS	<ul style="list-style-type: none"> i. LPG Tanks or cylinders are not allowed to be installed on the roof of buildings. However, considering the UAE's building and space trend, it is permitted on roof subjected to strict compliance with Code and regulation requirements . ii. Tanks located on elevation and podium are considered as Roof mounted Tanks and shall comply with this Section, 2.5.4. iii. Roof top LPG Tanks are not allowed to be installed on building roofs with Helipad on the same roof. iv. The location of the LPG tank shall permit access to all valves and controls and shall have enough surrounding area to permit the required maintenance v. Level of roof top LPG tank location shall be such that minimum of one building standard fire exit stair shall reach that level. Cat ladders, alternate stairs and temporary stairs are not allowed to be installed to access the roof top LPG tank installations. vi. LPG tanks shall not be installed on stair core roof, lift machine room roof and upper roof levels without building standard stair access. vii. LPG Tanks shall be installed where there is free air movement. viii. Where tanks are covered because of aesthetic reasons, such enclosure shall be fully ventilated or perforated and shall comply with separation distances of Table 11.7. ix. LPG Tanks shall not be located within 3 m of dike wall of other flammable and combustible liquids.
2. INSTALLATION OF ON ROOF TANKS	<ul style="list-style-type: none"> i. For roof top LPG tank installations, the building shall be of Type I, 443 or 332, or Type II, 222, construction as specified in Chapter 1. ii. The support of the tank shall be designed to the same seismic criteria as the building. iii. The roof which the tank is located shall be able to support the weight of the container filled with water. iv. Tank shall be installed on a level surface. v. The Tank shall be secured to the building structure.
3. QUANTITY ALLOWED FOR ROOF TOP TANKS	<ul style="list-style-type: none"> i. Maximum allowed roof top LPG tank quantity for buildings complying with Table 11.7.2.i., is 2000 Gal. (Aggregate) ii. For other types of construction, not complying to Table 11.6, 2, i., the total allowable quantity for roof top LPG Tank shall be reduced to 1000 gal. (Aggregate) iii. For Malls, developments larger than 20,000 m² with central LPG tanks, quantity allowed on roof top installations shall be permitted to be 4000 Gal in two 2000 Gal LPG Tanks installed 15 m apart. Such approvals, however, shall be based on Civil Defence assessment of project and evaluation of the proposal.