

Seattle Fire Department

Permit Conditions

8201-Install

LPG - Installation of Stationary LP-Gas Containers

This permit shall be kept on the premises designated herein at all times and shall be readily available for inspection by the fire code official. [SFC 105.3.5]

GENERAL:

1. The *fire code official* is authorized to order the posting of "No Smoking" signs in a conspicuous location in each structure or location in which smoking is prohibited. The content, lettering, size, color and location of required "No Smoking" signs shall be *approved*. (SFC 310.3)
2. Smoking, open flame, portable electric tools, and extension lights capable of igniting LP-gas shall not be permitted within 25 feet of a point of transfer while filling operations are in progress at containers or vehicles. (SFC 6107.2, NFPA 58: 7.2.3.2)
3. Cylinders installed above ground shall be set upon a firm foundation or otherwise be firmly secured. (NFPA 58: 6.8.2.1)
4. Above ground cylinders shall not be in contact with the soil. (NFPA 58: 6.8.2.2)
5. Containers installed underground and NOT subjected to vehicle traffic shall be installed at least 6 inches below grade. (NFPA 58: 6.8.6.1(A))
6. Containers installed underground, within 10 feet of possible vehicle traffic, shall be installed 18" underground or vehicular barrier protection shall be provided. (NFPA 58: 6.8.6.1(B))
7. Visible hazard identification signs, as specified in NFPA 704 for the specific material contained shall be placed on stationary containers and aboveground tanks and at entrances to locations where hazardous materials are stored, dispensed, used or handled in quantities requiring a permit and at specific entrances and locations designated by the *fire code official*. (SFC 5003.5)
8. Stationary *LP- gas* containers, cylinders and tanks shall be marked with the name of the gas. (NFPA 58: 5.2.8.1)
9. Areas used for the storage, use and handling of *LP- gas* containers, cylinders, tanks and systems shall be secured against unauthorized entry and safeguarded in an *approved* manner. (SFC 5003.9.1.1)
10. *LP- gas* containers, cylinders, tanks and systems which could be exposed to physical damage shall be protected from vehicular damage by guard posts or other *approved* means. (SFC 6107.4)
11. LP-gas containers used in buildings, on roofs or exterior balconies shall be secured to prevent falling caused by contact, vibration, or seismic activity. (NFPA 58: 6.22.2.1)
12. Combustible waste, vegetation and similar materials shall be kept a minimum of 10 feet from *LP- gas* containers, cylinders, tanks and systems. (SFC 6107.3)
13. *LP- gas* containers, cylinders and tanks shall be secured to prevent falling over the edge of a floor, roof, or balcony. (NFPA 58: 6.22.3.5)
14. *LP- gas* containers, cylinders, tanks and systems shall not be placed in areas where they are capable of being damaged by falling objects. (NFPA 58: 6.22.3.2)
15. *LP- gas* containers, cylinders, tanks and systems shall not be located where they could become part of an electrical circuit. *LP- gas* containers, cylinders, tanks and systems shall not be used for electrical grounding. (NFPA 58: 6.11.3.15)
16. Leaking, damaged or corroded *LP- gas* containers, cylinders and tanks shall be removed from service. (SFC 5003.2.6.2)

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- 17. **Fire District Restrictions.** Storage and use of LP-gas containers having an individual capacity in excess of 239 pounds water capacity [100 pounds LP-gas] and all stationary installations are prohibited in the Fire District. (SFC 6104.2)
- 18. LP-gas containers (125 gallons capacity or less) installed adjacent to buildings shall not have emergency discharge vents located within 5 feet of any building opening. (SFC Table 6104.3)
- 19. LP-gas containers exceeding 125 gallons capacity shall be located away from buildings, public ways, and lot lines according to Table 6104.3 in the 2018 Seattle Fire Code. (SFC Table 6104.3)

LP-Gas Container Capacity (water gallons)	Minimum Separation Between LP-Gas Containers and Buildings, Public Ways or Lot Lines of Adjoining Property that can be built upon		Minimum separation between LP-Gas Containers (feet)
	Mounded or underground LP-Gas containers (feet)	Above-ground LP-Gas containers (feet)	
Less than 125	10	5	None
125 to 250	10	10	None
251 to 500	10	10	3
501 to 2,000	10	25	3
2,001 to 30,000	50	50	5
30,001 to 70,000	50	75	(0.25 of sum of diameters of adjacent LP-gas containers)
70,001 to 90,000	50	100	
90,001 to 120,000	50	125	

- 20. LP-gas containers shall not be filled or maintained with LP-gas in excess of either the volume determined using the fixed liquid-level gauge installed by the manufacturer, or the weight determined by the required percentage of the water capacity marked on the container. (SFC 6106.2)
- 21. Safety devices on LP-gas containers shall not be tampered with or made ineffective. (SFC 6107.1)
- 22. At least one portable fire extinguisher having a minimum rating of 40-BC shall be provided and located a minimum of 10 feet from, and a maximum travel distance of 30 feet from LP-gas containers. (SFC 6108.2, Table 906.3(2), NFPA 58)
- 23. Storage of portable LP-gas containers of 1,000 pounds or less, whether filled, partially filled, or empty, at consumer sites or distribution points, and for resale by dealers or resellers shall comply with Sections 6109.2 through 6109.15.1. (SFC 6109.1)
 - Exceptions:**
 - i. LP-gas containers that have not previously been in LP-gas service.
 - ii. LP-gas containers at distribution plants.
 - iii. LP-gas containers at consumer sites or distribution points, which are connected for use.
- 24. LP-gas containers shall be located in a manner that minimizes exposure to excessive temperature rise, physical damage, or tampering. (SFC 6109.2)

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25. Storage outside of buildings of LP-gas containers awaiting use, resale or part of a cylinder exchange program shall be located as follows:
- i. At least 5 feet from openings into buildings including inoperable windows
 - ii. At least 10 feet from any combustible material.
 - iii. At least 20 feet from any motor vehicle fuel dispenser.
(SFC 6109.12 and Table 6109.12)

**TABLE 6109.12
SEPARATION FROM EXPOSURES OF LP-GAS CONTAINERS AWAITING USE,
RESALE OR EXCHANGE STORED OUTSIDE OF BUILDINGS**

QUANTITY OF LP-GAS STORED (pounds)	MINIMUM SEPARATION DISTANCE FROM STORED LP-GAS CYLINDERS TO (feet):						
	Nearest important building or group of buildings or line of adjoining property that may be built upon	Line of adjoining property occupied by schools, places of religious worship, hospitals, athletic fields or other points of public gathering; busy thoroughfares; or sidewalks	LP-gas dispensing station	Doorway or opening to a building with two or more means of egress	Doorway or opening to a building with one means of egress	Combustible materials	Motor vehicle fuel dispenser
720 or less	0	0	5	5	10	10	20
721–2,500	0	10	10	5	10	10	20
2,501–6,000	10	10	10	10	10	10	20
6,001–10,000	20	20	20	20	20	10	20
Over 10,000	25	25	25	25	25	10	20

For SI: 1 foot = 304.8 mm, 1 pound = 0.454 kg.

26. LP-gas containers shall be stored within a suitable enclosure or otherwise protected against tampering. Vehicular protection shall be provided as required by Section 6107.4.
Exception: Vehicle impact protection shall not be required for protection of LP-gas containers where the containers are kept in lockable, ventilated cabinets of metal construction.. (SFC 6109.13)

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City of Seattle Map of Fire District

Black Region

Fire District (Temporary Permit Required)

Grey Region

Outside the Fire District (Validation Number Required)

