



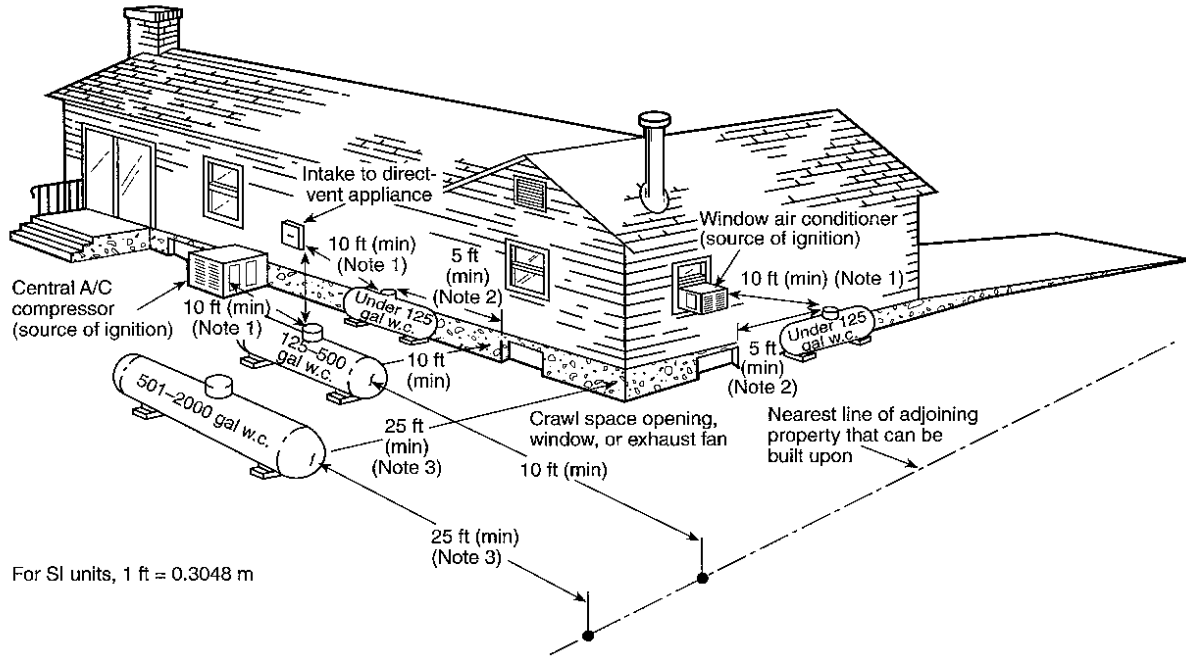
City Of Mercer Island Fire Marshals Office

3030 78th AVE SE
Mercer Island, WA 98040

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STANDARDS FOR INSTALLTION OF PROPANE TANKS



For SI units, 1 ft = 0.3048 m

Note 1: Regardless of its size, any ASME container filled on site must be located so that the filling connection and fixed maximum liquid level gauge are at least 10 ft from any external source of ignition (e.g., open flame, window A/C, compressor), intake to direct-vented gas appliance, or intake to a mechanical ventilation system. Refer to 6.3.9.

Note 2: Refer to 6.3.9.

Note 3: This distance may be reduced to no less than 10 ft for a single container of 1200 gal (4.5 m³) water capacity or less, provided such container is at least 25 ft from any other LP-Gas container of more than 125 gal (0.5 m³) water capacity. Refer to 6.3.3.

FIGURE I.1(b) Aboveground ASME Containers. (This figure for illustrative purposes only; code shall govern.)

NFPA 58 Table 6.3.1 Separation distanced between containers, important buildings and other properties.

Water Capacity per Container	Minimum Distances		
	Mounded or Underground Containers ^a	Aboveground Containers ^b	Between Containers ^c
Gallons	Feet	Feet	Feet
<125 ^d	10	0 ^e	0
125 250	10	10	0
251 500	10	10	3
501 2000	10	25	3
2001 30,000	50	50	5

Footnote a: Distances for mounded or underground tanks shall be measured from the pressure relief valve and the filling connection. No part of an underground ASME container shall be less than 10-ft from a building or property line that can be built upon. (NFPA58 6.3.4)

Footnote b: The horizontal distance between the portion of a building that overhangs out of the building wall and an ASME container of 125 gallons or more shall comply with the following:

- (1) The horizontal distance shall be measured from a point determined by projecting the outside edge of the overhanging structure vertically downward to grade or other level upon which the container is installed.
- (2) This horizontal distance shall be at least 50% of the separation distance required in Table 6.3.1.
- (3) This requirement shall apply only when the overhang extends more than 5-ft. from the building.
- (4) This requirement shall not apply when the overhanging structure is 50-ft or more than the relief valve discharge outlet.
- (5) This requirement shall not apply to ASME containers, 2002 to 30,000 gallons, where the container distance from building is in accordance with NFPA 58 6.24.2.

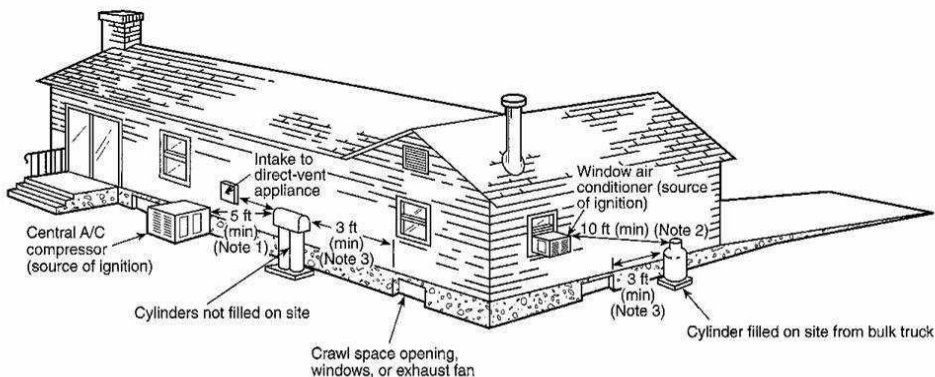
Footnote c: Access at the ends or sides of individual underground containers 125 gallons or more shall be provided in multi-container installations to facilitate working with cranes or hoists. (NFPA 58 6.3.11)

Footnote d: The distance measured horizontally from the point of discharge of a container pressure relief valve to any building opening below the level of such discharge shall be in accordance with Table 6.3.9. and figure I.1(b). (NFPA 58 6.3.9)

Footnote e: Cylinders installed alongside of buildings shall be positioned so that the discharge from the cylinder pressure relief device is located as follows: (1) At least 3-ft horizontally away from any building opening that is below the level of such discharge. (2) At least 5-ft in any direction away from any exterior source of ignition, opening to direct-vent (sealed combustion system) appliances, or mechanical ventilation air intakes. Cylinders shall not be located and installed underneath a building unless the space is open to the atmosphere for 50% of its perimeter or more. The distance measured horizontally from any point of discharge of a container pressure relief valve to any building opening below the level of such discharge shall be in accordance with Table 6.3.9 and Figure I.1(b). (NFPA 58 6.3.7, 6.3.8, and 6.3.9)

ADDITIONAL REQUIREMENTS:

1. A fire construction permit shall be required for the installation of any sized tank serving a fixed appliance. IFC 107.12
2. All LP tanks shall be installed in accordance to NFPA 58 and the International Fire Code.
3. Weeds, grass, brush, trash and other combustible material shall be kept not less than 10-feet from LP tanks in any-direction.
4. When exposed to probable vehicular damage due to proximity to driveways, parking areas, or alleys, LP-containers, regulators and piping shall be protected.



For SI units, 1 ft = 0.3048 m

Note 1: 5-ft minimum from relief valve in any direction away from any exterior source of ignition, openings into direct-vent appliances, or mechanical ventilation air intakes. Refer to 6.3.7.

Note 2: If the cylinder is filled on site from a bulk truck, the filling connection and vent valve must be at least 10 ft from any exterior source of ignition, openings into direct-vent appliances, or mechanical ventilation air intakes. Refer to 6.3.9.

Note 3: Refer to 6.3.7.

FIGURE I.1(a) Cylinders. (This figure for illustrative purposes only; code shall govern.)

CITY OF MERCER ISLAND

Fire Marshal's Office

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PHONE: 206.275.7966 | www.mercerisland.gov



CITY USE ONLY		
PERMIT #	RECEIPT #	FEE
REFERENCE #		
Date Received:		

Fire Permit Application International Firecode 2015-105.7

Received By:

Site Address:	
Property Owner:	Phone:
Address:	Email:
Contractor:	Phone:
Address:	Email:
Contractor License Number:	MI Business License #:
Contact:	Phone:
Address:	Email:

Existing Uses:

<input type="checkbox"/> Commercial	<input type="checkbox"/> Public	<input type="checkbox"/> Retail/Office	<input type="checkbox"/> Single Family
<input type="checkbox"/> Multi Family	<input type="checkbox"/> Institutional	<input type="checkbox"/> Other:	

Proposed Use:

Construction Type:

Check all Applicable items:

<input type="checkbox"/> Automatic fire-extinguishing system	105.7.1	<input type="checkbox"/>	Smoke Control or Smoke Exhaust Systems	105.7.14
<input type="checkbox"/> Battery system	105.7.2	<input type="checkbox"/>	Solar Photovoltaic Power Systems	105.7.15
<input type="checkbox"/> Compressed gas * (See exceptions below)	105.7.3	<input type="checkbox"/>	Spraying or Dipping	105.7.16
<input type="checkbox"/> Cryogenic Fluid	105.7.4	<input type="checkbox"/>	Standpipe systems	105.7.17
<input type="checkbox"/> Emergency Responder Radio Coverage System	105.7.5	<input type="checkbox"/>	Temporary membrane structures & tents. 105.7.18 Exceptions: 1) <i>Tents for Camping</i> 2) <i>Funeral Tents and curtains</i> 3) <i>All open tents and awnings that are each under 700 sf, or combined without fire breaks are under 700 sf, and are farther than 12 feet from other tents or buildings.</i>	
<input type="checkbox"/> Fire alarm and detection systems and related equipment	105.7.6			
<input type="checkbox"/> Fire pumps and related equipment	105.7.7			
<input type="checkbox"/> Flammable and combustible liquid	105.7.8			
<input type="checkbox"/> Gates and Barricades Across Fire Access Roads	105.7.9			
<input type="checkbox"/> Hazardous materials* (See exceptions below)	105.7.10	<input type="checkbox"/>		
<input type="checkbox"/> Industrial Oven* (See exceptions below)	105.7.11	<input type="checkbox"/>	Marijuana Extraction System 105.7.19 Underground Supply Piping for Automatic Sprinkler System. 105.7.20 Exceptions: 1) <i>Underground installed by aboveground Contractor</i> 2) <i>Underground serves an NFPA 13D system.</i>	
<input type="checkbox"/> LP gas	105.7.12			
<input type="checkbox"/> Private fire hydrants	105.7.13			

* **Exceptions:** 1) Routine Maintenance 2) Emergency work. Permit application required within 2 days of start of work.

Description of Work:

Please see over

UNDER PENALTY OF INTERNATIONAL MISREPRESENTATION AND/OR PERJURY, I declare that I have examined and/or made this application and it is true and correct to the best of my knowledge and belief. I agree to construct said improvement in compliance with all provisions of the applicable ordinances. I further certify that all easements, deed restrictions or other encumbrances restricting the use of the property are shown on the site plans submitted with this application. We (I) have been given authorization from the property owner to obtain this permit. I realize that the information that I have affirmed heron forms a basis for the issuance of the permit herein applied for and approval of plans in connection therewith shall not be construed to permit any construction upon said premises or use thereof in violation of any applicable ordinance or to excuse the owner or his or her successors in title from complying therewith. THIS IS NOT A PERMIT TO BEGIN CONSTRUCTION OR INSTALLATION.

Applicant/Contractor Signature

Title

Date

I understand that by applying for this permit, I am consenting to the inspection of this property and to the entry onto the property by inspectors of the authority having jurisdiction for the purpose of performing the necessary inspections during normal business hours for the duration of the permit.