

## PROPANE STORAGE

### Propane Storage and Use, Residential

#### General

Rules governing outside storage of propane come from CMR 527 sec.6.00 and NFPA 58

- A permit from the head of the fire department is required for storing propane in the amount of 42 pounds (ten gallons) or more

Cylinders in storage shall be located to minimize exposure to excessive temperature rises, physical damage, or tampering.

Cylinders must be securely stored on a stable hard surface, such as concrete. Asphalt is not considered a stable surface.

#### BY-LAW

**§99-5.** In buildings used in whole or in part for residential purposes, propane shall not be used or stored in a location which exceeds a height of ten vertical feet from mean grade.

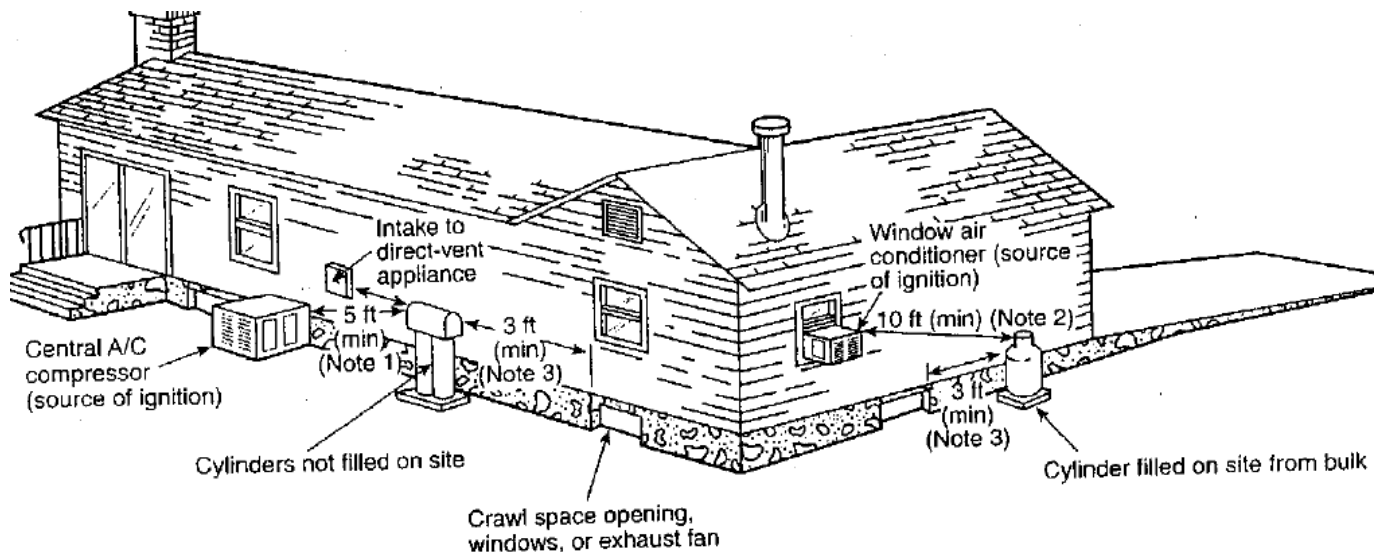
This law refers to propane fired devices including but limited to grills, heaters and lanterns.

### Storage Within Residential Buildings.

Storage of cylinders within a residential building, including the basement or any storage area in a common basement storage area in multiple-family buildings and attached garages, shall be limited to cylinders each with a maximum water capacity of 2.7 lb (1.2 kg) and shall not exceed 5.4-lb (2.4-kg) aggregate water capacity for smaller cylinders per each living space unit. Each cylinder shall meet DOT specifications.

### Guideline for tank Placement

**NOTE:** These are guidelines. The head of the fire department may impose stricter requirements, if in his or her opinion the conditions warrant it. Have a member of the fire department check your site before install any cylinders.



**NOTE: UNDERGROUND STORAGE: PRECAUTIONS MUST BE TAKEN NOT DAMAGE PROTECTIVE COATING OF CONTAINER AND IF DAMAGED MUST BE REPAIRED PRIOR TO BACKFILLING, TANKS MUST REST ON A FIRM FOUNDATION (FIRM EARTH MAY BE USED) BACKFILL SHALL BE FREE OF ROCKS**

## PROPANE STORED OUTSIDE WAITING FOR USE, RESALE OR AS PART OF AN EXCHANGE PROGRAM

### General

Rules governing outside storage of propane come from CMR 527 sec.6.00 and NFPA 58

**NOTE:** The head of the fire department may impose stricter requirements, if in his or her opinion the condition warrant it.

Cylinders in storage shall be located to minimize exposure to excessive temperature rises, physical damage, or tampering.

Cylinders must be securely stored on a stable hard surface, such as concrete. Asphalt is not considered a stable surface.

Storage areas must be posted with adequate "NO SMOKING" AND "FLAMMABLE GAS" signs.

Protection of Valves on Cylinders in Storage. Cylinder valves shall be protected . Screw-on-type caps or collars shall be in place on all cylinders stored, regardless of whether they are full, partially full, or empty, and cylinder outlet valves shall be closed and plugged or capped.

### Fire Protection.

Storage locations, where the aggregate quantity of propane stored is in excess of 720 lb (327 kg), shall be provided with at least one approved portable fire extinguisher having a minimum capacity of 18 lb (9.2 kg) dry chemical with B-C rating. The required fire extinguisher shall be located no more than 50 ft (15 m) from the storage location.

### Cylinders at a location open to the public shall be protected by either of the following:

- (1) An enclosure
- (2) A lockable ventilated metal locker or rack that prevents tampering with valves and pilferage of the cylinder

Protection against vehicle impact shall be provided in accordance with good engineering practice where vehicle traffic normally is expected at the location.

### Alternate Location and Protection of Storage

Where the provisions of 5.4.1 and 5.4.2.1 are impractical at construction sites or at buildings or structures undergoing major renovation or repairs, alternate storage of cylinders shall be acceptable to the authority having jurisdiction.

### DISTANCE FROM STRUCTURES

At least **20ft** from any **doorway** or opening in a building frequented by the public where occupants have at least two means of egress as defined by NFPA 101, Life Safety Code.

At least **20 ft** (6.1 m) from any automotive service station **fuel dispenser**.

For buildings, or sections of buildings, having only one means of egress, at least **40 ft** from the doorway or opening.

The discharge from any container safety relief device shall be located not less than **5ft** from any exterior sources of ignition, any opening to a building, Included but not limited to windows, doors, openings into a direct vent appliance, or mechanical ventilation intake.

### DISTANCE FROM LOT LINES

The discharge from any container safety relief devices shall be located not less than **6ft** from any non residential property line.

The discharge from any container safety relief devices shall be located not less than **20ft** from any residential property line.

### MAXIMUM QUANTITIES STORED

Outside awaiting sale, use, or exchange	36-201b. cylinders (720 lbs.)
Inside awaiting sale	200-11b. cylinders (2001bs.)

