

**Parking - Propane Fuelled Vehicles**

This interpretation outlines acceptable procedures for the parking of propane fuelled vehicles in aboveground enclosed structures as permitted by Alberta Fire Code (AFC), Division B, Clause 2.4.4.5.(2)(b).

**2.4.4.5. Propane Fuelled Vehicles**

- (2) A propane fuelled vehicle may be parked in an enclosed structure where it is
- a) a garage serving not more than one dwelling unit, or
  - b) not used by the public and is acceptable to the authority having jurisdiction.

In addition to the requirements of CAN/CGA-B149.2, "Installation Code for Propane Burning Appliances and Equipment," for gas appliances in garages, the authority having jurisdiction may permit propane fuelled vehicles to be parked in an aboveground enclosed structure provided:

- a) The premises are used solely for the parking of fleet vehicles that are under the control of the fleet operator of such vehicles, and the public is prohibited from the vehicle parking area within the building.
- b) The facility is deemed to be a storage garage (F3) and all requirements of the Alberta Building Code, Division B, for this type of occupancy shall apply, including:

**3.3.5.4. Repair and Storage Garages**

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- (4) A garage shall be provided with natural or mechanical ventilation in conformance with the requirements of Subsection 6.2.2. to prevent excessive accumulation of carbon monoxide, exhaust fumes or flammable and toxic vapours.

**3.3.5.6. Storage Garage Separation.**

- (1) Except as permitted by Sentences 3.3.4.2.(4) and (5), a storage garage shall be separated from other occupancies by a fire separation with a fire resistance rating of not less than 1.5 h.

- c) The propane fuelled vehicle displays an approved label and there are no leaks in the vehicle propane fuel system. Propane fuel systems shall be inspected, tested and maintained by authorized persons on a regular basis to ensure the fuel systems are mechanically safe from rupture or leakage.
- d) All vehicle propane tank motor fuel shut-off valves are in the closed position when parked in the vehicle parking area and the vehicle engine is run until the fuel supply line has been drained. This procedure will not be necessary for fuel systems equipped with fuel line relief devices that vent back into the tank.
- e) Vehicles requiring repair or maintenance of the vehicle fuel system are prohibited from the vehicle parking area. Service and repair must be performed in facilities authorized for this type of work.
- f) Propane fuel containers are not filled at any time beyond their maximum permitted filling density (80%), vehicles are not refuelled prior to parking, and preferably contain as little fuel as possible when parked in the vehicle parking area.
- g) Propane detection devices are located throughout the vehicle parking area that indicate by use of an audible alarm that propane has been detected and initiates operation of an automatic venting system.
- h) Smoking is prohibited within the vehicle parking area and appropriate signs are posted.
- i) Propane containers on vehicles are not exposed to temperatures in excess of 38°C.
- j) Fire extinguishers are installed in accordance with the AFC, Division B, Article 2.1.5.1.
- k) A fire safety plan in accordance with AFC, Division B, Part 2 has been prepared.

Any parking of propane fuelled vehicles in aboveground enclosed structures is subject to final acceptance by the authority having jurisdiction as provided for in the AFC, Division B, Article 2.4.4.5.

This Interpretation has been prepared with the assistance of Plumbing and Gas Safety.