

# Glossary

## Regulatory Authorities in Canada

### Canadian Fire Code Information

#### Approval/General Provisions

Aboveground tanks shall meet the requirements of the National Fire Code of Canada (NFC) and be installed in accordance with Section 4.3.2 of the NFC.

Note: the National Fire Code of Canada is a reference. Individual provincial fire codes should be consulted.

#### Terminology

**Protected Tank Assembly:** Non-pressure aboveground tank providing secondary containment and enclosed in a fire, impact and ballistic resistive encasement.

**Protective Encasement:** Construction that is external to the primary storage tank and designed for protection against fire, impact and small arms attack.

**Unprotected Tank Assembly:** Non-pressure aboveground tank, with or without secondary containment, which does not provide protection from fire, impact, and small arms attack in accordance with the NFC.

#### Installation

Installation of a protected tank assembly is per NFC Section 4.3.2.7.  
Installation of the dispensing system per NFC Section 4.5.

#### Maximum Capacities

The NFC allows the following maximum capacities:  
50000 L per individual tank  
150000 L aggregate

#### Spill Prevention

The NFC requires Spill Containment Devices in accordance with ULC/ORD C142.19  
The NFC requires Overfill Protection Devices in accordance with ULC/ORD C58.15

## Secondary Containment

Construction that is external to the primary storage tank, designed to contain not less than 100% of the tank capacity in the event of leakage, and prevent release of such leakage into the environment.

## Separation Distances

|               | Unprotected Tank | Protected Tank |
|---------------|------------------|----------------|
| Between Tanks | 3 meters         | 1 meter        |
| To Property   | 3 meters         | Waived         |
| To Buildings  | 3 meters         | Waived         |

## Piping

Opening locations on the tank per the local authority having jurisdiction.

Piping must be identified and bear a product mark.

Piping is required to be protected where subject to damage from vehicular collision.

## Physical Protection

The NFC references ULC/ORD C142.16, Aboveground Protected Tank Assemblies for Flammable and Combustible Liquids

ULC requirements for the protection of the protected tank assembly against damage from vehicular traffic, e.g., either bollards (concrete NPS 6 Schedule 80 steel pipe) or standard highway guard rails placed at a minimum distance of 1.5m from the protective encasement perimeter in such a manner to prevent vehicular passage.

## Miscellaneous

Anti-syphon device is required per ULC/ORD C142.16.

A shut off valve is required at the tank and dispenser.