



City of Ramsey
Fire Prevention Bureau
7550 Sunwood Drive NW
Ramsey, MN 55303
Business (763) 427-4452



ABOVEGROUND FUEL STORAGE TANK INSTALLATION

General Requirements:

The installation of aboveground fuel storage tanks (AST), including piping and associated equipment shall comply with the Minnesota State Fire Code (MSFC) Chapters 23 and 57, applicable NFPA standards and Environmental Protection Agency Rules.

Below are general requirements from the Minnesota State Fire Code as well as City of Ramsey provisions for installation of aboveground storage tanks. This is not a complete list and additional provisions specific to your installation will be required. Approval is required before beginning any work.

- Submittal of a fire permit application, and a detailed scaled site plan. The fee is \$100 per tank.
- Supervision of the installation by a State licensed storage tank contractor.
- The installation shall be in compliance with the Minnesota International Fire Code.
- Tanks, piping and all associated equipment shall be listed and approved.
- Tanks shall be constructed in compliance with NFPA 30 and bear a permanent label indicating an applicable standard used as the basis of design.
- Secondary containment (double-wall tank or dike) and/or spill containment may be required.
- When required by the local code official, multiple AST installations shall be protected by an approved fire protection system.
- Normal venting and emergency venting shall be provided in compliance with the fire code.
- Warning signs identifying the specific hazard shall be posted in approved locations determined by the code official. Sign lettering shall be white on a red background. Letters shall not be less than 3 inches in height with a 1/2 inch stroke.

Aboveground Fuel Storage Tank Installation

Page 2 of 3

Additional Requirements for Motor Vehicle Dispensing:

- A maximum of three AST's are allowed for dispensing at any single dispensing site. AST's shall not exceed 6,000 gallons for Class I liquids and 10,000 gallons for Class II liquids.
- Tanks used for storage of Class I liquids shall be listed and labeled as protected above-ground tanks in accordance with UL 2085 and shall be in accordance with Chapter 57.

AST's /Dispensing:

- Tanks shall be located no less than 50 feet from the nearest side of a public way, property line, building, or combustible storage on the same property.
Exception 1: *AST's which have a separation of at least 30 feet between the tank and the dispenser may reduce the distances between the AST, the public way, property line, building or combustible storage to 30 feet.*
Exception 2: *AST's which have a UL 2085 listing and less than 6,000 gallons may reduce the distances between the AST, the public way, property line, building or combustible storage to 5 feet.*
- AST's shall be separated from their dispenser by at least 30 feet.
Exceptions: *Tanks that comply Chapter 57 or tanks that have a UL 2085 listing-Operations not open to the public that dispense Class I liquids from one AST of 560- gallon capacity or less may have the dispenser located on top of or adjacent to the AST and Operations not open to the public that dispense Class II liquids from no more than two AST 's of 1,000-gallon individual capacity or less may have the dispenser located on top of or adjacent to the AST.*
- Dispensers shall be located 10 feet or more from property lines, 10 feet or more from buildings having combustible exterior wall surfaces or buildings with noncombustible exterior wall surfaces that are not part of a one-hour fire-resistance rated assembly or buildings having combustible overhangs.
Exception: *Canopies constructed in accordance with the IBC.*
- Unattended self-service stations are allowed when, as a condition of approval, the owner or operator:
 - 1) Is accountable for daily site visits and regular equipment inspection and maintenance.
 - 2) Posts dispenser operating instructions.
 - 3) Posts emergency procedure instructions.
 - 4) Provides an emergency shut-off device within 20-100 feet from dispensers.
- Signs prohibiting smoking (prohibited within 20' of dispensers—NFPA 30A, 9.2.5.1), dispensing into unapproved containers, and requiring vehicle engines to be stopped during fueling shall be conspicuously posted. When open to the public, a sign stating minimum age to dispense fuel is 16 years old.

Aboveground Fuel Storage Tank Installation

Page 3 of 3

- Dispenser units shall be substantially anchored and protected from physical damage by mounting on a concrete island 6 inches or more.
- Dispenser hoses shall be listed and approved. When not in use, hoses shall be reeled, racked or otherwise protected from damage.
- Where subject to vehicle damage, AST's shall be provided with approved vehicle impact protection such as 4-inch steel, concrete-filled guard posts. Guard posts shall be spaced not more than 4 feet apart, set not less than 3 feet deep into a 15 inch concrete footing and extends at least 3 feet above ground. Posts shall be placed not less than 3 feet from the protected object.
- Electrical wiring located in classified areas shall be installed suitable to the location in which it is located and in compliance with the State Electrical Code.

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Electrical wiring located in classified areas shall be installed suitable to the location in which it is located and in compliance with the State Electrical Code.

Inspections Required

Pressure test of tank and piping and an emergency shut-off test. A pre-test must be conducted prior to calling for an inspection. If an inspection fails, a re-inspection must be scheduled. Re-inspection fee is \$50.00.