

Knoxville Fire Department

Fire Prevention Bureau (Fire Codes and Inspections)

Aboveground Storage Tanks Installation Requirements and Diagrams

Container Classification

The storage of Class I, II, and III flammable or combustible fluid fuels in aboveground vessels, including sub base and integral emergency or standby generators shall be defined as follows:

Container - 60 gallons capacity or less. An installation permit or annual inspection not required.
Aboveground Storage Tank (A.S.T) - Any vessel greater than 60 gallons capacity is an A.S.T. installation within the city limits of Knoxville and shall comply with all permitting, annual inspection, and zoning requirements set forth by city ordinance and the Fire Prevention Bureau. Click [here](#) to view the container guidelines

Aboveground Storage Tank Options and Sample Layout

U.L. 142 Bare Steel Single Wall - Located Inside Dike - [View Diagram \[PDF\]](#)

U.L. 142 Bare Steel Double Wall Secondary Containment - [View Diagram \[PDF\]](#)

Fire Resistant - [View Diagram \[PDF\]](#)

Protected Tanks, Less than 6000 gallons – [View Diagram \[PDF\]](#)

Protected Tanks, 6001-12000 gallons – [View Diagram \[PDF\]](#)

Vaults - [View Diagram \[PDF\]](#)

Authorized Zones

This City of Knoxville will allow the installation of aboveground storage tanks (A.S.T.) for Class I, II, and III flammable and combustible liquid fuels in areas zoned industrial I-2, I-3, and I-4 for tanks greater than 1,500 gallons by the Metropolitan Planning Commission (MPC). Class IIIB flammable and combustible liquids will be allowed in all zones except residential. All installations must fully comply with the 2012 International Fire Code, NFPA 30, 30A 2015 ed., any code or standard referenced from these codes, city ordinance, limitations of the Fire District and the approval of the Fire Official from the Knoxville Fire Department Fire Prevention Bureau (KFD-KPB).

Emergency or standby generators with integral or sub base fuel vessels greater than 60 gallons capacity shall comply with the requirements of an A.S.T. Consideration will be given to the possibility of installation for generators with integral or sub base A.S.T.s up to 1,500 gallons capacity in areas other than I-2, 3, and 4. Any installation within the 60 to 1,500 gallon capacity shall meet the requirements and have the approval of the Fire Prevention Bureau prior to beginning installation. Areas zoned residential will not be considered for approval.

For questions related to zoning, contact the Metropolitan Planning Commission at 865-215-2500. The City of Knoxville zoning map can be viewed at <http://kgis.org/kgismaps/Map.htm> .