

2012 International Fire Code (IFC) Requirements for ASTs for Fuel Burning or Generator Equipment

This table lists some of the relevant *aboveground storage tank* requirements in the 2012 edition of the IFC for such tanks connected to fuel burning appliances or generator equipment. Please note that the 2012 edition of IFC references the 2011 edition of NFPA 31 for all its requirements relating to ASTs for Fuel Burning or Generator Equipment.

This table is a partial list of the differences and similarities between these Codes, and is not intended to be a replacement for these Codes.

Aboveground Storage Tank Requirements	IFC 2012 EDITION
Terminology	<ul style="list-style-type: none"> • Protected Aboveground Tank: A listed tank system consisting of a primary tank provided with protection from physical damage and fire resistive protection from a high intensity liquid pool fire exposure. The tank system may provide these protection elements as a unit or may be an assembly of components or a combination thereof. (IFC,202)
Tanks in Basements	<ul style="list-style-type: none"> • Tanks in basements shall be located not more than two stories below grade plane. (IFC: 603.3.2.5)
Outside Unprotected Fuel Oil Storage Tanks	<ul style="list-style-type: none"> • Where connected to a fuel-oil piping system, the maximum amount of fuel oil storage allowed without additional protection is 660 gallons. The storage of fuel oil above ground exceeding 660 gallons shall comply with the 2011 NFPA 31. (IFC:603.3.1):
Inside Building Unprotected Fuel Oil Storage Tanks	<ul style="list-style-type: none"> • The aggregate capacity of unprotected fuel oil storage tanks containing Class II or III liquid shall not exceed 660 gallons. (IFC: 603.3.2.1) • Tanks shall be used only to supply fuel oil to fuel-burning or generator equipment.. Connections between tanks and equipment supplied by such tanks shall be made using closed piping systems.(IFC: 603.3.2.2) • Tanks and piping systems shall be installed and separated from other uses in accordance with International Mechanical Code (IMC) Section 915 and IMP Chapter 13, as applicable. (IFC: 603.3.2.4)
Inside Building Protected Fuel Oil Storage Tanks	<ul style="list-style-type: none"> • The aggregate capacity of protected fuel oil storage tanks containing Class II or III liquid shall not exceed 3000 gallons. However, such tank(s) shall be located in a room protected by automatic sprinklers. (IFC: 603.3.2.1 Exception) • Tanks shall be used only to supply fuel oil to fuel-burning or generator equipment.. Connections between tanks and equipment supplied by such tanks shall be made using closed piping systems.(IFC: 603.3.2.2) • Tanks and piping systems shall be installed in accordance with 2012 edition of the International Mechanical Code (IMC) Section 915 and IMP Chapter 13, as applicable. Tanks shall comply with IFC Section 5704.2.9.7 (i.e. venting, flame arresters, overfill prevention system, signage at fill point, spill containers, etc.) (IFC: 603.3.2.4)
Other Related Code Requirements	<ul style="list-style-type: none"> • Fuel storage for liquid-fueled stationary internal combustion engines and gas turbines shall meet the requirements of 2010 edition of NFPA 37. (International Mechanical Code (IMC) Section 915 .1) • International Mechanical Code (IMC) Chapter 13 governs the design, installation, construction and repair of fuel-oil storage and piping systems. The storage of fuel oil and flammable and combustible liquids shall be in accordance with Chapters 6 and 57 of the International Fire Code.
NFPA 31	National Fire Protection Association Standard 31, 2011 Edition, <i>Installation of Oil-burning Equipment</i>
NFPA 37	National Fire Protection Association Standard 30, 2010 Edition, <i>Stationary Combustion Engines and Gas Turbines</i>
IMC	International Mechanical Code , 2012 Edition
IFC	International Fire Code , 2012 Edition

Table was compiled by STI with the help and guidance from:

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