

EEEEV.GuidelInfo - Aboveground Flammable-liquid Tanks

[Containment Products for Flammable and Combustible Liquids] (Fixed and Stationary Storage Tanks) Aboveground Flammable-liquid Tanks

[See General Information for Fixed and Stationary Storage Tanks](#)

USE AND INSTALLATION

This category covers general-purpose, shop-fabricated, steel primary, secondary and diked containment-type tank constructions intended for aboveground storage of noncorrosive, stable, flammable and combustible liquids at atmospheric pressure in capacities from approximately 60 gal to 75,000 gal. Tank shapes include horizontal and vertical cylindrical, rectangular, and designs with non-flat bottoms. Stored liquids are limited to 1.0 spg, unless otherwise evaluated and marked for the maximum spg.

These tanks are intended for fixed or stationary installation and use in accordance with ANSI/NFPA 30, "Flammable and Combustible Liquids Code," ANSI/NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair Garages," ANSI/NFPA 31, "Installation of Oil-Burning Equipment," ANSI/NFPA 37, "Installation and Use of Stationary Combustion Engines and Gas Turbines," ANSI/NFPA 1, "Fire Code," the "International Fire Code" (published by the International Code Council), and/or other requirements of the Authority Having Jurisdiction (AHJ).

This category covers only the basic tank constructions and optional tank accessories specifically identified in the individual certifications that are investigated to additional requirements under the base tank standards.

This category does not cover field-erected tanks or portable/mobile tanks intended for shipping and transport, which are covered under separate requirements or regulations from the American Petroleum Institute, U.S. Department of Transportation, etc., or United Nations publications; or special-purpose tanks, such as utility or used oil.

These products have not been investigated for resistance to or use after hurricanes, tornadoes, earthquakes, floods or other natural disasters; or vehicle and similar impacts; and fire.

TANK TYPES

The following types of steel tank basic-containment constructions, designs and optional supports are indicated in the individual certifications:

Aboveground tank for flammable liquids (#) — Single-wall steel primary-containment tank.

Secondary-containment aboveground tank for flammable liquids (#) — Steel primary-containment tank within a steel secondary-containment shell forming an interstitial space capable of being pressurized and monitored for leakage.

(*) Diked aboveground tank for flammable liquids (#) — Steel primary-containment tank within a steel containment dike vessel capable of being monitored for leakage, but not capable of being pressurized.

(#) "on supports" — Optionally provided with supports to elevate and stabilize the tank above grade that are investigated for structural integrity.

(*) Diked tank designs are either:

"Open-top" — Dikes provided without covers that resist rain or debris entering the dike.

"Closed-top" — Dikes provided with covers that resist rain or debris entering the dike.

TANK ACCESSORIES

The following optional accessories noted in the individual certifications and investigated to additional requirements in [ANSI/UL 142](#), "Steel Aboveground Tanks for Flammable and Combustible Liquids," may also be attached to the base tank:

Access devices — Ladders, stairs or runways provided for access, working or walking surfaces on the tank.

Lifting devices — Structural lugs, hooks or others means to facilitate lifting of the tank during fabrication, transport or installation.

Heating devices — Heating coils or hot wells provided within the tank for heating liquids in the tank.

FEATURES COVERED

The basic features of tanks covered under this category include all containment spaces and their respective openings (manways, emergency vents, normal vents, fill/withdraw, gauging, monitoring and other functional openings) with connections (threaded- or flanged-type fittings), and the tank accessories identified above.

All primary-tank compartment(s) are provided with normal and emergency vent openings. All secondary-tank interstitial space(s) are provided with emergency vent openings. It is anticipated the continued venting will be provided when installed in accordance with the applicable code.

In addition to vent openings, all primary-tank compartment(s) are provided with openings to accommodate filling, withdrawing, and inventory control; and all secondary-tank interstitial spaces are provided with openings for leak-detection monitoring.

Accessories (when provided) are attached to the tank or, where attachment at the factory is not possible (due to size/weight limits and/or potential damage), may be shipped with assembly instructions separately from or with the base tank.

All tank-containment compartments have been factory leak-tested by the manufacturer before shipping.

ACCESSORIES/FEATURES NOT INVESTIGATED

This category covers only the accessories and features specifically identified in the individual certifications. Any other accessories or components that are shipped with the tanks, attached to the tanks, or added to the tanks are not included in the scope of the tank certification. It is intended that the AHJ approve the use and/or installation of any such accessories independent of the tank certification.

In cases where either the tank is not marked for a specific fuel blend, or the liquid(s) to be stored in the tank is not known by the manufacturer, manway gasket compatibility is determined by the tank buyer.

RELATED PRODUCTS

See Fire-resistant Aboveground Tanks for Flammable and Combustible Liquids ([EEZI](#)) for tanks investigated to [UL 2080](#), "Fire Resistant Tanks for Flammable and Combustible Liquids."

See Protected Aboveground Tanks for Flammable and Combustible Liquids ([EELU](#)) for tanks investigated to [ANSI/UL 2085](#), "Protected Aboveground Tanks for Flammable and Combustible Liquids."

See Below-grade Vaults for Flammable-liquid Storage Tanks ([EHOJ](#)) for below-grade vaults investigated to [UL 2245](#), "Below-Grade Vaults for Flammable Liquid Storage Tanks."

See Special-purpose Tanks ([EFVI](#)) for tanks constructed of steel, including generator base, work-top, lube oil, waste oil, day/utility, and other special-purpose types investigated to [UL 142A](#), "Outline of Investigation for Special Purpose Aboveground Tanks for Specific Flammable or Combustible Liquids."

ADDITIONAL INFORMATION

For additional information, see Fixed and Stationary Storage Tanks ([EDQX](#)), Containment Products for Flammable and Combustible Liquids ([ECPR](#)) and Flammable and Combustible Liquids and Gases Equipment ([AAPQ](#)).

REQUIREMENTS

The basic standard used to investigate the basic tank-containment type and optional accessories in this category is [ANSI/UL 142](#), "Steel Aboveground Tanks for Flammable and Combustible Liquids."

UL MARK

The Certification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Certification and Follow-Up Service. The [Certification Mark](#) for these products includes the UL symbol, the words "CERTIFIED" and "SAFETY," the geographic identifier(s), and a file number.

Alternate UL Mark

The Listing Mark of UL on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the name of the appropriate tank construction as indicated in the individual Listings.

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