

S600A S677 ULC G5.2 ULC CCF7



September 30, 2014

STANDARDS BULLETIN 2014-31

First Edition CAN/ULC-S677-14

STANDARD FOR FIRE TESTED ABOVEGROUND TANK ASSEMBLIES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS

ULC Standards is pleased to announce the publication of the First Edition of CAN/ULC-S677-14, Standard for Fire Tested Aboveground Tank Assemblies for Flammable and Combustible Liquids. This National Standard of Canada was developed through the sponsorship of the Standards Council of Canada and now supersedes ULC/ORD-C142.5, Concrete Encased Steel Aboveground Tank Assemblies for Flammable and Combustible Liquids. The Standard was approved by the ULC Standards Committee on Stationary Steel Storage Containers for Flammable and Combustible Liquids, and is published under the date of October 2014.

This Standard covers minimum requirements for shop fabricated, aboveground fire tested tank assemblies intended for storage of flammable and combustible liquids that have a specific gravity not greater than 1.0 and that are compatible with the material of the tank. Tank assemblies constructed to meet this standard are intended to withstand exposure to a 1 h hydrocarbon pool fire.

The changes in this First Edition CAN/ULC-S677 from ULC/ORD-C142.5 are as follows:

- Removed the prescriptive words "concrete encased" in the title to make the Standard more performance based;
- Added the Standard CAN/ULC-S602, Standard for Aboveground Steel Tanks for Fuel Oil and Lubricating Oil as a primary tank;
- Made secondary containment and interstitial monitoring mandatory requirements;
- Added the following tests:
 - Lift-fitting strength test;
 - Load test (for flat top tank assemblies);
 - Pipe fitting torque and bending moment tests where fittings and their method of attachment differ from CAN/ULC-S601 and CAN/ULC-S602;
 - Tank support load test where the mass of the tank is greater than those described in CAN/ULC-S601 and CAN/ULC-S602;
 - Ball impact and environmental exposure tests (excluding tank assemblies that use a minimum of 150 mm concrete as insulation or an external steel wall that provides protection for the insulation).

You can obtain the Standard by downloading the pdf at no charge from our website at <u>www.ulc.ca.</u> A hard copy can be purchased for CAD\$ 210.00 (hardcopy) from the same site and by selecting the links to *ULC Standards* and *Sales of ULC Standards Materials.*

Should you require additional information, please contact Tess Espejo at (416) 288.2212 or by email at address: <u>Theresa.Espejo@ul.com</u>

Yours truly, ULC Standards

G. Rae Dulmage Director, Standards Department

ULC Standards 171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4, Canada T: 613.755.2729 / F: 613.231.5977 / W: ULC.ca