



Approval #

990004-U (REPLACES 930081-U)

Safety & Buildings Division  
201 West Washington Avenue  
P.O. Box 2658  
Madison, WI 53701-2658

## Wisconsin Material Approval

Material

Aboveground Storage Tanks  
Lube Cube, Ultra Tank and Tank Vault

Manufacturer

Containment Solutions, Inc.  
6740 Baymeadow Drive  
Glen Burnie, MD 21060

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### SCOPE OF EVALUATION

The aboveground storage tanks manufactured by Containment Solutions, Inc. have been evaluated for conformance with the current edition of **chapter ILHR 10**, the Wisconsin Administrative Flammable and Combustible Liquids Code.

### DESCRIPTION AND USE

Lube Cube, Ultra Tank and Tank Vault are steel rectangular aboveground storage tanks.

The Tank Vault consists of an inner steel tank and an outer shell of steel which serves as the formwork for 4 inches of poured concrete. A sheet of ¼-inch polystyrene is used to provide a path for any liquid in the interstice to reach the leak detection system. The Tank Vault is available in capacities up to 30,000 gallons.

## TESTS AND RESULTS

The steel tanks have been tested by Underwriters Laboratories, Inc. for compliance with U.L. Standard 142, Steel Aboveground Tanks for Flammable and Combustible Liquids. The Tank Vault has been tested and listed under UL 2085 for Insulated Aboveground and Insulated Secondary Containment Aboveground Tanks for Flammable Liquids, Protected Type.

## LIMITATIONS OF APPROVAL

### Double Wall Tanks and Vaulted Tanks

The Containment Solutions, Inc. double wall tanks and Tank Vault are approved for compliance with the secondary containment requirements of **s. ILHR 10.345 (1)** and **10.415 (7)(b)** and may be used without a dike, except in the case of public-access waste oil collection. Tanks for public-access waste oil collection shall be provided with a dike in accordance with **s. ILHR 10.33**.

For Lube Cube and Ultra Tank, the inner tank and outer tank wall thicknesses shall be a minimum of 7 gauge and ¼-inch thick or some equivalent combination. This is deemed sufficient to meet the projectile protection requirement of **s. ILHR 10.415 (7)(b)**. For the Tank Vault, the 4-inch thick concrete fill is deemed sufficient to meet the projectile protection requirement.

Double wall tanks with lesser wall thicknesses may be used inside a building without a dike subject to the requirements of **ss. ILHR 10.355 (2) and NFPA 30**.

The space between the tank walls shall be monitored for leaks. The monitor must be capable of detecting a leak from anywhere in the inner tank.

The tank shall be installed to allow full visual inspection of the secondary containment system.

### Tank Vault Only

The Tank Vault, when properly filled with 6 inches of concrete, is approved as providing a 4-hour fire wall which can be used to satisfy the setback requirements of **s. ILHR 10.415 (4)(b) 1**.

### Single Wall Tanks

Secondary containment shall be provided that complies with **s. ILHR 10.345** or, for vehicle fueling, with **s. ILHR 10.415 (7)**.

All Tanks

Tanks up to 10,000 gallons may be used for vehicle fueling in accordance with **s. ILHR 10.415**.

Tanks shall be installed by certified installers in accordance with **ch. Comm 5**.

Compartmentalized tanks shall be constructed with a double bulkhead in accordance with U.L. Standard 142. This interstitial space between compartments shall be monitored for leaks.

Separate vehicle collision protection shall be provided by a barrier that meets the design requirements specified in **s. ILHR 10.415 (8) (a)**.

Spill protection shall be provided at the fill opening for all tanks in accordance with **s. ILHR 10.415 (12)(a)**.

No attachments or alterations shall be made to the tank which violate or void the U.L. listing.

This approval will be valid through December 31, 2004, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Reviewed by: \_\_\_\_\_

Approval Date: \_\_\_\_\_ By: \_\_\_\_\_

Duane Hubeler, P.E.  
Mechanical Code Consultant  
Program Development Bureau

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