

Safety & Buildings Division

201 East Washington Avenue  
P.O. Box 7969  
Madison, WI 53707

## Wisconsin Material Approval

Material

Secondary Containment Aboveground Tank for Flammable Liquids  
DW-II Skid Tank

Manufacturer

Modern Welding Company, Inc.  
2818 Mt. Pleasant Street  
P.O. Box 806  
Burlington, IA 52601

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### SCOPE OF EVALUATION

The secondary containment aboveground tank for flammable liquids, with or without integrally welded supports, as manufactured by the Modern Welding Company, Inc., has been evaluated in accordance with **sections ILHR 10.345 (1) and 10.415 (7)(b)** of the Wisconsin Administrative Flammable and Combustible Liquids Code.

### DESCRIPTION AND USE

Modern Welding manufactures tanks for aboveground storage of flammable and combustible liquids with capacities of 560 - 20,000 gallons. They are double wall tanks constructed with a sump at one end. This sump is continuously monitored for leaks with a Petrometer tank leak alarm system.

### TESTS AND RESULTS

The inner tank and secondary containment have been tested and listed by Underwriters Laboratories, Inc., in accordance with UL Standard 142.

#### LIMITATIONS OF APPROVAL

The double wall tanks are approved for compliance with the secondary containment requirements of **ss. 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**.

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

All tanks, regardless of capacity, shall have a minimum total wall thickness (heads and shells) of 7/16 inch. This is typically achieved with a combination of 7 gage and 1/4-inch thickness. This is deemed sufficient to meet the projectile protection requirement of **s. ILHR 10.451 (7)(b)**.

Double wall tanks with lesser wall thicknesses may be used inside a building without a dike subject to the requirements of **s. ILHR 10.335** and **NFPA 31**, if applicable.

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

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

A spill container shall be provided at the fill opening in accordance with **s. ILHR 10.415 (12)(a)**.

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

No attachments may be made to the tank that violate or void the UL listing.

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

The installer shall be certified by the Department in accordance with **chapter Comm 5**.

This approval will be valid through December 31, 2002, 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: \_\_\_\_\_

Revision Date: \_\_\_\_\_ By: \_\_\_\_\_

Sam Rockweiler, P.E.  
Code Development Section  
Program Development Bureau