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File No: MH19409
Project No: 04NB11886
PD No: 04ML9400
Type: R
PO Number:

Subject: Procedure And/Or Report Material

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
1996/05/29	1	1	Revised Description Page(s) 1,2	2004/04/12
1996/05/29	1	1	New Illustration(s) 9	2004/04/12
1996/05/29	1	1	Revised Illustration(s) 1	2004/04/12
1996/05/29	1	1	New Test Record 2	2004/04/12

Inspections at your plant will be conducted under the supervision of Ron Payne, Area Manager, 1101 Sylvan Avenue, Suite C-101, Modesto, CA 95350. PHONE: 1-209-527-0626; FAX: 1-209-527-0947; E-MAIL: Ronald.T.Payne@us.ul.com.

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to our Customer Service Professional (PHONE: 1-877-ULHELPS [1-877-854-3577]), referring to the above Project and/or PD Numbers.

c: NBK File

UL INSPECTION CENTER 844

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D E S C R I P T I O NPRODUCT COVERED:

Underground tank sumps.

Double Wall Tank Sumps.

- * Penetration fittings Models B2, B3, B5.

GENERAL:

The tank sumps are installed on underground storage tanks. When installed they are intended for the secondary containment of petroleum products, alcohols, and alcohol-gasoline mixtures. They extend from the top of the tank to just below the street manway providing access to the tank. These tank sumps are not provided with fittings. The tank sumps are made in diameters of 36 in., 42 in. and 48 in. The sump riser reducers are molded.

The interstitial space of the double wall sumps may be monitored by using positive or negative (vacuum) pressure not exceeding 5 psi, or with water or brine solution.

- * The penetration fittings allow for the penetration of piping for flammable liquids and electrical conduit through the wall of the sumps.

INSTALLATION:

- * The sumps and penetration fittings are intended for underground installation in accordance with Western Fiberglass Inc.'s installation instructions (ILL. 1).

MARKING:

The following markings shall be legibly and permanently *applied to the sumps and penetration fittings.

- A. The Manufacturer's name.
- B. The manufacturing location.
- C. The statement: "Install in accordance with Western Fiberglass Inc.'s installation instructions" or equivalent.
- D. The Listing Mark described below.

LISTING MARK:

UNDERWRITERS LABORATORIES INC.

LISTED

FLAMMABLE AND COMBUSTIBLE LIQUID TANK ACCESSORY

(Control Number)

LMD/WD:lk
NKDLS

CONSTRUCTION DETAILS:

The general configurations and dimensions of the tank sumps are shown in Table 1 and in ILLS. 2, 3 and 4.

The sumps are manufactured of a single wall construction at a thickness of 200 mils. They are manufactured in a fabrication process using glass-fiber reinforcing in combination with an isoptahlic polyester resin. In various states of the manufacturing process, the glass fiber reinforcement is applied in the form of filament winding roving, chopped strand-wovng *roving or molded.

Double Wall Sumps - The inner sump wall is fabricated identically to the single wall models. The interstitial material is applied over the single wall sump and the outer wall is applied over the interstitial material to a minimum thickness of 200 mils (0.20 in.). An interstitial access fitting is installed to allow for testing and/or monitoring in the field. Refer to Ill. 9 for fabrication process details.

COMPONENT ELEMENTS

The following lists identifies the materials that are used in the manufacturing process.

- A. Isoptahlic Polyester Resins
 - 1. Reichhold No. 33-407, may also be designated as Reichhold No. 98-493.
- B. Catalyst
 - 1. Methyl Ethyl Ketone Peroxide in dimethyl phthalate - Technical Grade. Identified by product name on container.
- C. Glass Fiber Chopping Roving
 - 1. Owens Corning Fiberglass, No. 357.
- D. **Interstitial Material - Parabeam 3D glass fabric Type 87136.**

Riser Reducers - The riser reducers come centered, offset and waterproof bolt down type lids which incorporate a UL Recognized gasket evaluated for use with gasoline and gasoline/alcohol blends. The risers are contact molded and are manufactured (of a) Reichhold 33-407 at a thickness of 200 mils. The risers can range from height of rise of 5 to 12 in., 29-7/8 to 34 in. OD of Opening, and 30-1/2 to 34 in. OD of lid.

LMD/WD:lkc
NKDLS

TEST RECORD NO. 2

SAMPLES:

The manufacturer submitted a 36 in. ID by 37 in high double wall tank sump.

Due to the similarities to the single wall sumps covered in this report, only the following test was conducted.

ANNULUS PROOF PRESSURE TEST:

METHOD

The interstitial space of the sample was subjected to an aerostatic pressure of 5 psig for a period of 24 hours. The pressure was then increased to 10 psig for a period of 1 minute. The pressure was then decreased to 5 psig, and holes were drilled in random locations on the sump wall to check for communication.

RESULTS

The sump did not rupture or leak. The pressure communicated throughout the sump.

Test Record Summary:

The results of this investigation indicate that the product(s) evaluated comply with applicable requirements, and therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Reviewed by:

TIM CREWS
Staff Engineer

WAYNE DOVERSBERGER
Staff Engineer

LMD/TAC:jrp
NKDLS