

Complete Secondary Containment Lining System for Fuel Storage

System Features

- Entire project managed by ZCL Composites Inc.
- Installed on your site by trained and certified technicians.
- Safe, "once and for all" permanent secondary containment.
- Interstitial space that can be dry or hydrostatically monitored.
- 30 Year Warranty.
- "ALL FUELS" compatible.
- Installation within in-service tanks.
- Minimal site disruption– surrounding area and equipment can be left intact throughout installation.

Typical Applications

- Retail service stations
- Fleet fuelling locations
- Bulk plants with underground tanks
- Office buildings
- Chemical plants

ZCL
COMPOSITES INC.

www.zcl.com

1-800-661-8265

Complies with environmental regulations

The **LIFELINER System™** complies with government guidelines for secondary containment. Safe, durable technology that greatly reduces your risk of expensive leak-related clean-ups.

Quality Assurance

ZCL Composites Inc. is the most trusted name in the petroleum industry for providing environmentally safe storage products. Our products and technology are the benchmark for today's higher standards of environmental protection.

Optional Enhanced Warranty Protection

The **LIFELINER System™** Enhanced Warranty assures your site investment is protected by improving the basic warranty with Third Party Pollution Liability. A 10-year enhanced warranty on complete underground storage and handling system provides \$2 Million pollution liability that includes site clean-up coverage and defence costs. Please ask for details.



the
safer
system™

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Regulations Compliant Secondary Containment

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30
Year
Warranty



The LIFELINER System™ Benefits

- Converts single wall steel or fibreglass tanks to a secondary contained lining system.
- Minimizes site disruption and down time.
- Eliminates costly excavation and replacement of existing tanks.
- Conforms to existing steel and fibreglass tanks.
- Capable of monitoring the tank's integrity using hydrostatic, air pressure, vacuum, or dry sensor monitoring of annular space.
- 30 year warranty guarantees long term protection.
- Provides future access with newly installed manway. Installation of an optional turbine enclosure and collar allows easier access to the piping and its maintenance.
- Installed on-site by trained and certified technicians ensuring quality workmanship.



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Underground tanks need replacing?

Site conditions can make removal & replacement costly...

retrofit your tanks with the new corrosion resistant secondary contained LIFELINER lining system from ZCL

The LIFELINER System™ is a unique internal fibreglass system that allows you to upgrade in-service steel or fibreglass single wall tanks to a secondary contained lining system. The surrounding area and equipment are left undisturbed as the tank retrofit is completed without removing the tanks from the ground.

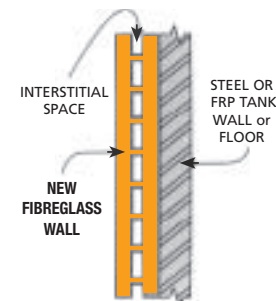
A brand new secondary contained fibreglass lining system is installed right on your site by trained and certified technicians.

Two new fibreglass layers are added with leak detection

The LIFELINER System from ZCL™ gives you more than twice the protection of any single wall tank. Two new corrosion resistant layers are applied using a special three dimensional glass fabric. It is then cured using

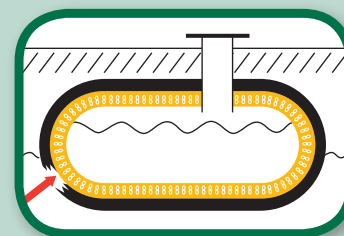
a thermosetting resin in conjunction with ZCL's proprietary curing system, creating an interstitial space "sandwich" laminate.

The LIFELINER System™ primary layer contains the product. The annular space between the new inner and outer layers provides continuous leak detection. If there was a breach of the primary layer, the product would be contained by the secondary layer, preventing a leak.



The LIFELINER System™ advantage

- Complies with the requirements of ULC/ORD-C-58.4 (Double containment fibre reinforced plastic linings for flammable and combustible liquid storage tanks).
- Assembled with corrosion resistant materials, the LIFELINER System™ provides long term rust-proof, corrosion-free service.
- Your new LIFELINER System™ **will not be affected by the future corrosion** of the original tank.



- Proven compatibility with all existing petroleum products, alcohol blended fuels and a variety of chemicals.
- Fibreglass gives you proven permeation protection, corrosion and chemical resistance and structural performance.
- The LIFELINER System™ does not depend on the structure of an existing tank for structural integrity.

A structurally independent system

Unlike other tank lining methods, the LIFELINER System™ is custom installed **on-site**. Fibreglass layers are bonded to existing tank wall, eliminating the differential forces within the converted tank. The independent structural integrity of the LIFELINER System™ enables installation within **in-service**, steel or fibreglass tanks.

To ensure the integrity of the system, an air tightness test of 5psi is applied to the interstitial space.

