

# DIRECT X

## Primary Mechanical Shoe Seal For External Floating Roof Tanks

Engineered primary sealing solutions designed to maintain consistent contact with the tank shell, minimise vapour loss, and deliver reliable performance across wide rim gaps and demanding operating conditions.

Direct X primary mechanical shoe seals provide robust, long-term sealing performance across petrochemical, fuel, and industrial storage applications.

### Overview

The **Direct X Primary Mechanical Shoe Seal** is a high-performance sealing solution designed for external floating roof tanks. Installed between the floating roof and the tank shell, it provides a continuous mechanical barrier to minimise vapour emissions and support safe, compliant operation.

Constructed from robust stainless steel components, the Direct X system maintains consistent contact with the tank shell while accommodating movement caused by changes in liquid level, temperature, and operating conditions. This ensures reliable sealing performance across a wide range of rim gaps and tank shell conditions.

### Design & Construction

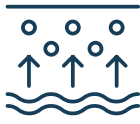
The Direct X seal incorporates a mechanical shoe design engineered to deliver reliable primary sealing performance under demanding external operating conditions.

Key design features include:

- Dual-pin shoe support mechanism provides structural rigidity and flexibility
- Hardened stainless steel spring elements maintain continuous shell contact
- Compression system accommodates wide and variable rim gaps
- Designed to handle dynamic loads and high cycle frequency
- Suitable for both in-service and out-of-service installation

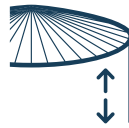


# Key Benefits



## Reliable Vapour Control

Maintains tight, continuous contact with the tank shell to reduce emissions.



## Wide Working Range

Performs effectively across varying rim gaps and tank shell irregularities.



## Durable Construction

All stainless steel components provide long service life in harsh environments.



## Flexible Installation

Suitable for installation in-service or during scheduled maintenance.



## Regulatory Compliance

Designed to meet EPA and local air quality standards.

# Key Features

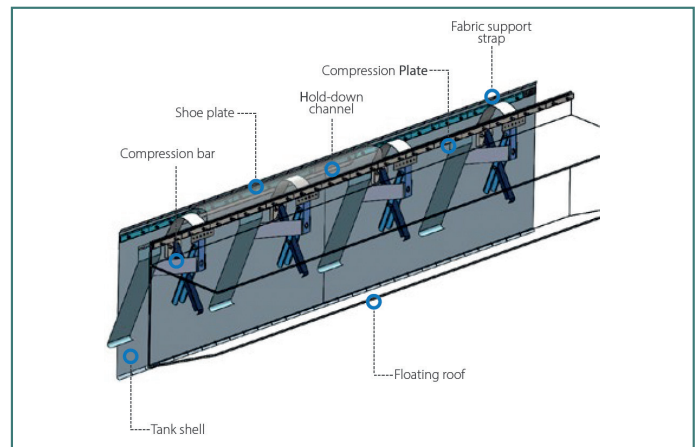
- Custom configuration for specific tank conditions
- Versatile design for fast delivery and installation
- High-tensile stainless steel spring components
- Wide working range and durable performance
- In-service or out-of-service installation
- Premium vapor barrier fabric options (PU, PTFE)
- Ideal for retrofitting existing seal systems

# Applications

- Petrochemical storage tanks
- Fuel and hydrocarbon storage tanks
- Industrial liquid storage facilities

# Compliance & Standards

Designed to meet relevant industry codes and standards, including EPA 40 CFR 60 and local air quality regulations, supporting safe and compliant tank operation.



## Direct X Seal System Components

Spring-loaded compression elements maintain constant contact between the shoe plate and tank shell, ensuring reliable sealing performance across varying operating conditions.



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## About DirectTank

DirectTank Environmental Products supplies advanced sealing systems and emission control solutions for aboveground storage tanks. Backed by decades of industry expertise, DirectTank delivers reliable engineering solutions designed to improve environmental performance, operational safety, and long-term asset reliability.