

Flexible Roof Drain Systems For External Floating Roof Tanks

DirecTank supplies and integrates flexible roof drain assemblies that safely remove accumulated rainwater while accommodating full roof travel and demanding operating conditions.

Overview

Flexible roof drain systems are critical to external floating roof tank operation, allowing rainwater to be removed safely as the roof rises and falls with product level.

As the roof moves, the drain assembly must maintain continuous flow without kinking, twisting, flattening, or placing undue stress on fittings. Hose-based roof drains provide a reliable discharge path while preserving mechanical integrity across the full operating range of the roof.

DirecTank specifies, supplies, and integrates flexible roof drain assemblies for petrochemical, fuel storage, and industrial tank applications — supporting safe operation and long-term asset reliability.



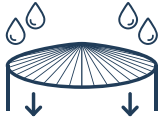
Design & Construction

Flexible roof drain systems supplied by DirecTank are configured to deliver dependable performance in demanding tank environments.

Key design considerations include:

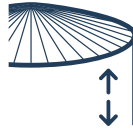
- Hose assemblies engineered to accommodate full roof travel
- Reinforced construction to resist collapse, flattening, kinking, and torsion
- Abrasion- and weather-resistant outer jackets for harsh tank-top exposure
- Secure hose-to-fitting connections designed to maintain leak-free operation
- Configurations to suit a wide range of tank diameters and roof designs
- Options specified for new installations and retrofit applications

Key Benefits



Reliable rainwater removal

Helps prevent standing water and associated roof loading, supporting safe operation in wet-weather conditions.



Designed for full roof travel

Accommodates continuous vertical movement without compromising flow performance or mechanical integrity.



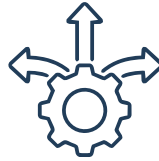
Durable, reinforced construction

Robust hose construction helps minimise kinking, abrasion, and premature wear during operation.



Reduced maintenance requirements

Engineered to withstand mechanical stress, tank-top exposure, and long-term service conditions.



Installation flexibility

Suitable for integration into new tank builds or retrofits, with configurations to suit site constraints.



Compatible with EFR configurations

Specified for use across a range of external floating roof designs and common industry applications.

Key Features

- Rim-mounted configuration for external floating roof applications
- Stainless steel construction for corrosion resistance
- Designed to support annular rim-space foam containment
- Compatible with new or existing secondary seal systems
- All-bolted installation with no hot work required
- Multiple bracing options available
- Suitable for new installations and retrofit applications

Applications

Integrated rim-mounted foam dams are suitable for floating roof tank applications including:

- Petrochemical storage tanks
- Fuel and hydrocarbon storage tanks
- External floating roof tanks
- Tank farms and terminals
- Retrofit fire protection upgrades
- Applications requiring rim-space foam containment

Compliance & Standards

Integrated rim-mounted foam dams are designed to support recognised fire protection expectations for aboveground storage tanks, including applications where API Standard 650 and NFPA requirements are relevant.

System configuration should consider tank geometry, seal arrangement, foam application strategy, and site-specific fire protection requirements to ensure effective integration with the overall tank safety system.



6059 South Loop East
Houston TX 77087
713-673-7701
info@directtank.com
directtank.com

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.