

## Mesa helps drain away

Since 1967, Mesa Roof Drain systems have been field-tested and approved by refineries and storage tank facilities worldwide. Mesa drains have operated in-service for up to 30 years. Life expectancy of all drains is dependent on product in tank throughout service life and are within parameters of design specifications. Mesa Roof Drain systems ensure proper drainage of water from the floating roof of aboveground storage tanks (ASTs). Floating roofs are sloped towards a drain sump normally located in the centre of the roof. One end of Mesa's flexible pipe assembly is connected to the sump from below the roof. The assembly is immersed in the liquid storage product and connected to an outlet at the base of the tank. Mesa's drain assemblies flex as the roof raises or lowers depending on the liquid level. Mesa's smooth internal fluidway allows water to be drained from the floating roof in the most efficient manner.

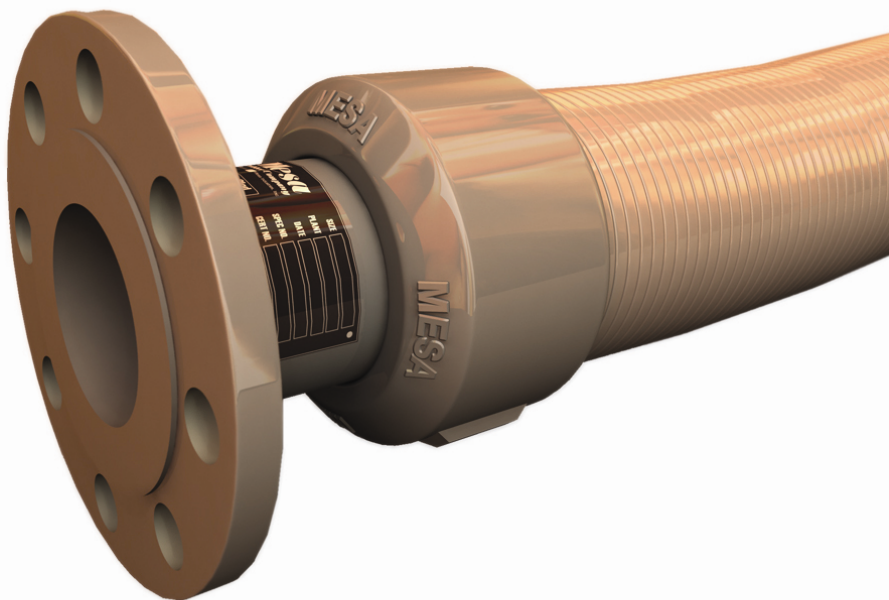
Mesa roof drains offer the following features:

- Smooth internal fluidway to ensure proper drainage - no corrugation to restrict flow or cause sediment to catch and plug up the hose
- Chemical compatibility for all storage tank products
- Operate in a vertical plane and do not scrape on the floor of the tank
- Have consistent lay pattern ensuring that the drain stays in position as installed in the storage tank
- Proprietary designed fittings give roof drain two permanent non-leaking couplings at each end of the assembly
- Do not add pressure to the floating roof
- Won't cause 'off-centre' roof or seal gaps such as those caused by swivel joints or hard piped systems
- Have negative buoyancy in all storage products.

- Choice of single-coil or controlled, repetitive lay pattern depending on Mesa Flexible Pipe chosen for roof drain system.

Mesa adds that AST owners and managers can help reduce environmental contamination by using its line of emission control products. These 'green' products for ASTs include MesaThane

from floating roof support legs. Leg Boots (also referred to as 'socks' in the storage tank industry) form a covering for the support legs to seal in hydrocarbon vapors. Vapor Guard Gauge Pole Covers reduce hydrocarbon vapors from escaping through slots in AST Slotted Gauge Poles. Gauge Pole Covers form a casing around the exterior of the Slotted Gauge Pole. An optional Transition Box provides a seal at the deck opening.



floating roof seal materials, Vapor Guard Leg Boots (socks) and Gauge Pole Covers. Mesa introduced Vapor Guard Environmental Gauge Pole Covers in 2001 with wide acceptance throughout the industry. To maintain along product service life, Mesa's engineers analyse each application for seal materials, Leg Boots and Gauge Pole Covers to determine the material and configuration that best suits each application. MesaThane floating roof seal materials (Mesalon seal materials are an alternative for extreme chemical environments) are suitable for several 'green' applications including AST primary and secondary curtain seals at the floating roof rim area, foam log/envelope seals, vapor bladders, pontoon liners, repair bladders and other custom applications.

Vapor Guard Leg Boots are designed to reduce emissions caused by vapors escaping

In addition to reducing environmental contamination, tank owners benefit from Mesa's green products by reducing product loss from their tanks

Product loss is reduced by sealing in hydrocarbon vapors at specific areas on the floating roof, namely the floating roof rim space, gauge pole and roof support legs. By meeting environmental regulations with the use of Mesa's green products, tank owners realise additional benefits of compliance and operational efficiency.

Mesa Rubber Co is a division of Mesa ILTA Booth 436 Industries, Inc, and has manufactured and supplied specialised products to the petroleum industry for over 40 years. Mesa's AST product division offers a complete line of products for new construction and maintenance of internal and external floating roof storage tanks. Product lines include floating roof drains, skimmer systems, foam delivery systems, leg boots, gauge pole covers, seal systems and materials. Mesa is ISO 9001:2000 certified.

[www.mesarubber.com](http://www.mesarubber.com)