

Floating Roof Storage Tank Seals

Secondary Compression Plate Seal (CPI)

General Information:

The Secondary Seal is a rim mounted system suitable for floating roof tanks of all sizes storing all grades of crude and refined products.

The Low Profile type of Secondary CPI Seal is specifically designed to maximize the possible height of the floating roof within the tank so the operating capacity of storage, allowing tank owners to increase competitiveness and profitability.

Design Features:

The Secondary CPI LP Seal is designed to be installed whilst the tank is in service. The seal incorporates a compression plate, synthetic rubber wiper and vapour barrier membrane.

The compression plate can be made from either galvanised steel or stainless steel.

The vapour barrier membrane is normally manufactured from polyurethane-coated nylon fabric with very low vapour permeability properties. PVC Nitrile, PTFE/Teflon or Firestop materials may be adopted depending of customers' requirements.

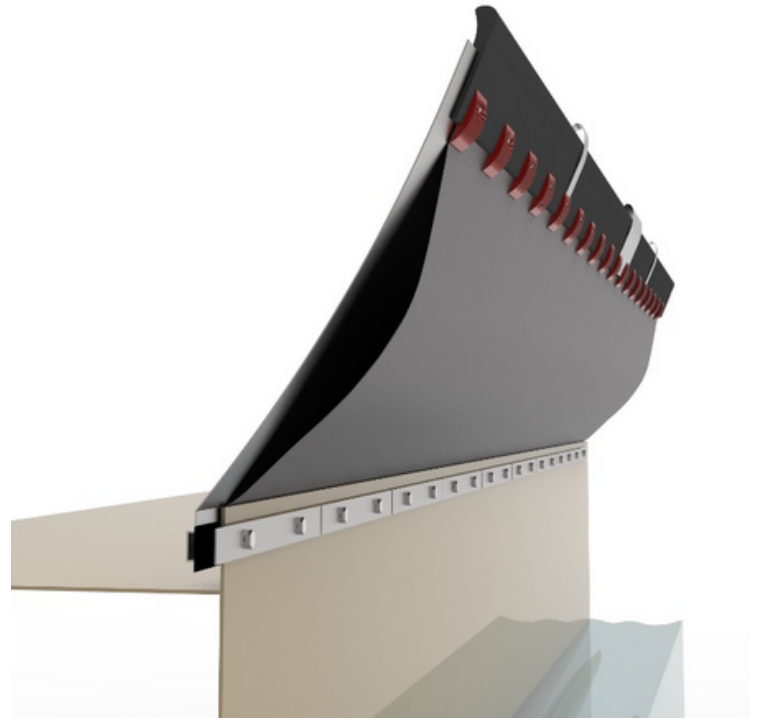
The seal design is such that all the fixings are on the outside of the seal; i.e. the tank shell side is completely smooth. The smooth outside surface of the seal ensures that the risk of damage is minimized if the roof is floating above the tank shell.

The seal can be fixed to either a vertical upstand or horizontal angle. The dimensions of the compression plate can be varied to suit a wide range of nominal rim spaces.

Installation:

The Secondary Seal LP can be easily installed with the tank in service as no hot work is required and the seal is simply bolted in position on top of the roof rim.

A double seal version of this design is also available.



Technical Data

Rim space: 200mm ± 120mm

Aromatic resistance: 100%

Material Specification

Compression plate: 1.6mm Galvanised Steel
1.5mm Stainless Steel

Clamp channels: Galvanised or Stainless Steel

Wiper: Synthetic rubber, high tensile strength, good wear resistance, excellent weathering.

Vapour barrier: Teflon/Fiberglass, Calcium Silicate, Urethane, Polyurethane.

Shunts: Stainless Steel

Other

Typical service life: 10-20 years

Typical weight: 8-10kg per linear meter