



Seal Type	Primary Seal
Description	Mechanical Pantograph Shoe Seal.
Used On	External Floating Roof Tanks.
Rim Space	Nominal rim spaces of 200 ± 125mm or 300 ± 225mm.
Service	Suitable for all products with correct material selection.
API 650 Compliant	Yes
Codres Compliant	Yes
Weight	43 Kg's/m. (Typical based on 200mm rim space)
Advantages	<p>The counterweight system retains its sealing pressure throughout its service life.</p> <p>Suitable for service with aggressive products.</p> <p>Proven in service for over forty years.</p> <p>May be attached to either a vertical or horizontal fixing point.</p>
Disadvantages	<p>Not recommended for service on tanks with appreciable tank shell distortion.</p> <p>Unsuitable for tanks where shell coatings have been applied.</p>

### Key Component Materials :-

1	Sealing Ring (Shoe Plates)	1.5mm Galvanised Steel or 1.2mm Stainless Steel
2	Counterweights	Carbon Steel or Carbon Steel with hot dip Galvanised coating
3	Counterweight Arms	Carbon Steel or Carbon Steel with hot dip Galvanised coating
4	Shoe Arms	Carbon Steel or Carbon Steel with hot dip Galvanised coating
5	Hinge Brackets	Carbon Steel
6	M.S. Guides	Carbon Steel
7	M.S. Pins	Carbon Steel or Carbon Steel with hot dip Galvanised coating
8	Spreader Rod Cleats	Carbon Steel, Carbon Steel with hot dip Galvanised coating or Type 304 Stainless Steel
9	Spreader Rods	Carbon Steel or Carbon Steel with hot dip Galvanised coating
10	Fabriclamps	Type 304 Stainless Steel
11	Rim Clamp Bars	Carbon Steel with hot dip Galvanised coating or Stainless Steel
12	Continuous Seal	PVC Nitrile/Nylon, PTFE/Glass, Viton/Nylon or special "Firesield" material
13	Shunts	Stainless Steel