

Double Seal with Integral Foam Dam



TS - 20 Integral Foam Dam

Fire protection of open top floating roof tanks frequently involves the use of fixed or portable foam delivery systems. Experience has shown that the perimeter of the floating roof, in the region of the seal, is the most likely part of the roof surface to be affected by fire.

Traditionally, it has been the practice to protect this zone with a foam delivery system to retain the foam in the vicinity of the seal and at sufficient depth to fight the fire.

Provided by the experienced team from Land & Marine TankServ

www.landandmarine.com

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The usual device employed for the purpose was a vertical steel plate, welded to the roof plating, running around the roof at approximately one metre from the tank shell. The height of this foam dam was customarily 300mm, sufficient to allow submergence of the primary seals. Drainage holes are necessary to prevent water gathering behind the foam dam.

Obviously, the volume of foam necessary to be delivered to the seal zone for effective fire control needs to be minimised in order to allow the quickest response time possible.

When a secondary seal is introduced to a seal system, the height of the seal is increased and the height of the foam dam should therefore also be increased to allow submergence of the seal tip by around 50mm.

This can be achieved by extending the existing foam dam, provided it is in good condition or, alternatively, by using our integral foam dam TS - 20 which mounts on the same fixing positions as the seal itself. The illustration shows one form of this device. Vertical or horizontal rim mountings are also available.

Major Benefits of the Integral Foam Dam

- The integral foam dam does not contact the pontoon top plating; thus the opportunity for deck corrosion is avoided. Any future repairs or replacement of an integral foam dam can be carried out purely by cold working methods.
- When secondary seals are fitted, increasing the height of the foam dam may be desirable. This is readily achieved without welding.
- Generally, the impounded volume of the integral foam dam will be smaller than with a conventional, welded, foam dam, resulting in reduced filling time.
- Our normal material of construction is 1.5mm thick galvanised material, however stainless steel material & thicknesses up to 3mm have shown to produce additional corrosion properties & increase working life.
- The illustration shows the integral foam dam to our TS - 16 double seal system (primary and secondary seals), however the system dam can be used over any seal type.

For more details on this and other products visit:

www.landandmarine.com

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 TS - 14 Foam Filled Seal
 TS - 16 Servaseal Secondary Seals
 TS - 16 Servaseal Double Seals
 TS - 32 Servaseal Secondary Seals

TS - 32 Servaseal Double Seals
 Guidepole Sleeves & Vapour Leg Socks
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 Geodesic Dome Roof
 Roof Drain Systems
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