CARGO TRANSFER SYSTEMS B.V.

Tel.: +31 (0)10 - 2622160
Fax: +31 (0)10 - 2622190
Website: www.cargotransfer.net

Integral foam dam during test session.

INTEGRAL FOAM DAM

Foam dams are installed on both external and internal floating roofs to concentrate fire fighting foam in the seal area in the case of a fire, which typically should occur at this area. The common design for a foam dam is a welded construction in the rim area of the roof. There are several disadvantages to welding a foam dam. An integral foam dam fitted to the rim angle of the floating roof will eliminate these disadvantages and offers significant benefits. An integral foam dam is bolted directly to the rim angle and the base of a secondary seal. Being modular of design and extensively tested it can be installed in little time.
An integral foam dam can be engineered to suit any secondary seal design and may be executed in carbon steel and different grades of stainless steel.

Integral foam dam, features:

- maintenance free, no need for any (future) blasting or painting
- extensively tested
- can be installed on tanks in service
- reducing foam consumption considerably (in most cases less than 50% foam would be required compared to traditional welded foam dams)
- allows fast accumulation of foam
- adaptable to both horizontal and vertical rim angles
- can be manufactured in stainless steel, for a truly maintenance free foam dam
- expected service life in excess of 20 years
- designed for each specific tank and seal arrangement
- easy installation, full installation manuals and project support available
- complies with all relevant API standards
- successfully used globally by many major oil and tank storage companies
- reducing corrosion of rim angles (typically as a result of water being trapped between the seal and the steel foam dam)

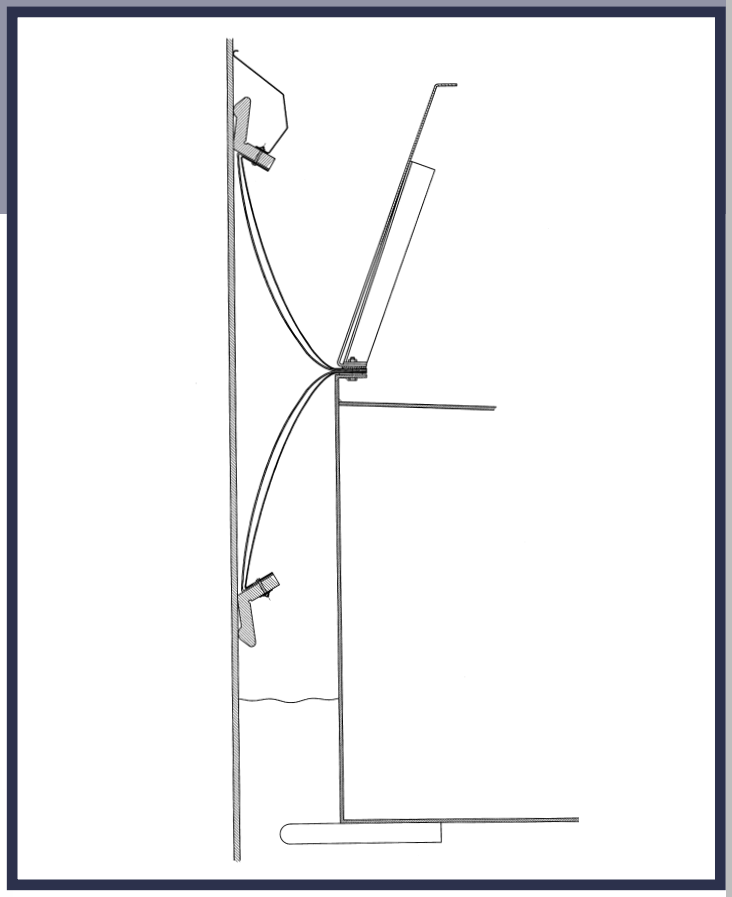
INTEGRAL FOAM DAM

Design and engineering:

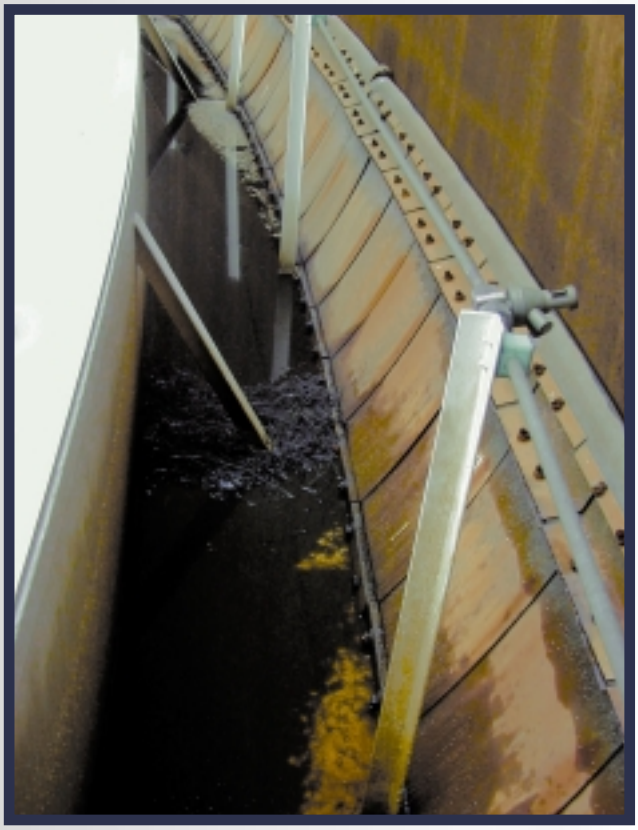
Any Integral foam dam will be engineered to match the tank and tank seal involved. Materials can either be galvanised steel or stainless steel, where the latter is obviously the longer lasting alternative. Delivery will include an as-built drawing for the integral foam dam as well.

Installation:

CTS is certainly capable to install an integral foam dam on any tank, but our detailed drawings and installation manuals will give you the choice to have either your own staff or contractor staff installing the integral foam dam as well. The advantages of having your own (contractor) staff installing the system could be significant, reducing travelling and lodging costs. Experienced CTS supervision is available upon request.



Integral foam dam, typical drawing.



Rim corrosion is a concern on welded foam dams.

Conventional welded foam dam:

Traditional foam dams are usually welded steel structures, welded to the top of the pontoon area and equipped with drain holes. A major concern is the fact that this foam dam design traps rain, corrosion from the tank shell and product residue. These may be scraped from the tank shell by the secondary seal or flow down as a result of the tank shell being warmed up by exposure to bright sun light. Ultimately the drain holes will get blocked with this debris. The water will accumulate behind the foam dam and expose the rim angle to aggressive corrosion (see picture). Both foam dam modifications and replacements of foam dam and rim angle will result in significant refurbishing costs for external floating roof tanks.

Deal with these aspects once and for all by installing a CTS integral foam dam!

CTS®
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Offices:
Coventrystraat 2
3047 AD Rotterdam
The Netherlands

Tel.: +31 (0)10 - 2622160
Fax: +31 (0)10 - 2622190
E-mail: info@cargotransfer.net
Website: www.cargotransfer.net

Your distributor: