



CTS1 MECHANICAL SHOE PLATE SEAL

The CTS1 is a well-designed shoe plate seal, eliminating all the problems traditional shoe plate seals have generated in earlier generations of seal design. Its design is based on shoe plates being pressed firmly to the tank shell by compression plates backing up these shoe plates. The pressure point is in the centre of gravity of each shoe plate, therefore securing that the full height of each shoe plate contacts the tank shell. As the seal design has no moving parts it will not encounter problems as a result of corrosion or waxy product sticking in sliding or pivoting seal mechanisms. Each CTS1 seal will be individually engineered and manufactured to fit the tank involved, making sure the seal will be able to deal with both the stored product as well as with the particular dimensional properties and design aspects of this tank.

CTS1 Product Features:

- excellent vapour tightness, resulting in maximum emission reductions
- eliminates much of the rain water ingress to the stored product
- compatible with all stored products, including 100% aromatics
- available in different material combinations, including galvanised steel and stainless steel
- suitable for both vertical and horizontal roof rims, without requiring rim modifications
- service life expectation in excess of 30 years
- designed for each specific tank
- maintenance free
- easy installation
- liquid mounted seal
- full installation manuals and project support available
- complies with EPA and API standards
- successfully used by many major oil and tank storage companies
- suitable for both welded and riveted tank shells
- can be combined with all known secondary seal designs
- rim mounted seal, no welding or drilling in the floating roof pontoons will be required



Design and engineering:

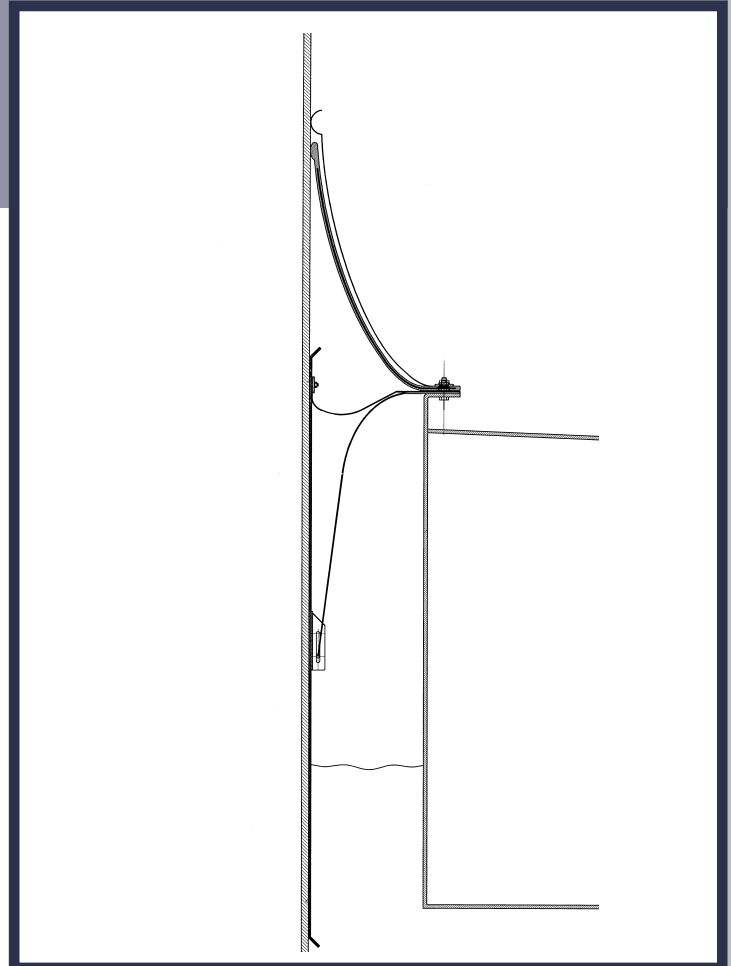
CTS designs each individual seal for the tank it will be fitted on. We consider the rim gap, product properties, tank specifications and many other design aspects in this process. This eliminates the problems that arise when a standard seal is fitted. Our special tank inspection sheet will facilitate this engineering process. Delivery will include an as-built drawing for the seal.

Installation:

CTS is certainly capable to install any tank seal on any of your tank, but our detailed drawings and installation manuals will give you the choice to have either your own staff or contractor staff installing the seal 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.



A CTS1 mechanical shoe seal fitted together with a CTS20 secondary seal represents an excellent tank seal!



CTS1 mechanical shoe seal, with CTS10 secondary seal.

Materials, selection:

Not just the design of the seal is important for its performance. Correct material selection might be even more important to ensure a long term adequate performance for any seal. In this respect one also has to realise that fabrics will be difficult to inspect and malfunctioning seals could represent a hazard, while still mechanically okay. Sound materials have to withstand the stored product, ozone, sun exposure and rain water contact. CTS is able to give you a profound advise on the optimal combination of materials, resulting in an economic seal design able to deal with the harshest conditions. Seals can be manufactured in a wide variety of materials, including different grades of stainless steel and polymer materials, compatible with 100% aromatics or aggressive chemicals if and when required.

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