

*Bottom view CTS7 seal after several years in service.*



## **CTS7 PRIMARY FOAM SEAL**

*The CTS7 is a primary foam seal, traditionally known as the most effective primary tank seal with respect to reducing emissions. Its design is based on a polymer fabric reinforced cover around a resilient foam core, being held down by steel plates. As the seal is very flexible and contacts the tank shell in an extended area the vapour tightness is excellent. Each CTS7 foam seal will be specifically 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 and design aspects of this tank. Primary foam seals can either be vapour mounted or liquid mounted, and are available both for external as well as for internal floating roof tanks.*

### **CTS7 Product Features:**

- excellent vapour tightness, resulting in maximum emission reductions
- eliminates much of the rain water ingress to the product stored
- compatible with all stored products, including 100% aromatics
- available in different material combinations, both as vapour mounted seal as well as in liquid mounted design
- fitting both vertical and horizontal roof rims, requiring no rim modifications
- designed for each specific tank
- easy installation
- full installation manuals and project support available
- complies with EPA and API standards
- successfully used by many major oil and tank storage companies
- can be combined with all known secondary seal designs



## Different designs available for CTS7 foam seals:

A foam seal can be manufactured in many different designs. Several aspects influence this design, as follows:

### - liquid mounted or vapour mounted

A foam seal can either be liquid mounted or vapour mounted. The seal will not trap any vapours under the seal in liquid mounted design and emissions will be reduced to an absolute minimum. The direct contact between the liquid and the seal envelope however makes the requirements for the envelope material much more demanding. A vapour mounted foam seal is not in direct contact with the stored product, and therefore less vulnerable. In case of a defect seal envelope it will also not trap liquid product.

### - suspended or non-suspended seal

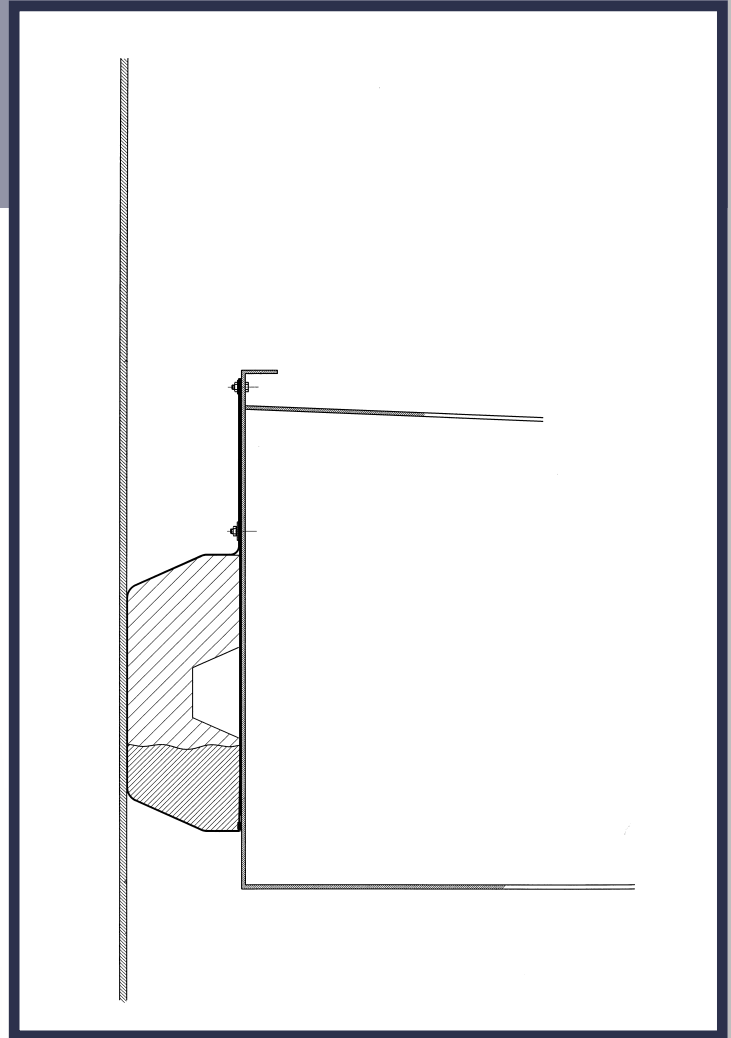
To reduce materials required for liquid mounted seals these are often executed as suspended seals, where a steel construction is generally used to suspend the seal.

### - different foam shapes

The shape of the foam and exact geometry will vary subject to the rim gap and other seal requirements.

### - suitable materials

While a foam seal is very efficient, materials used have to be able to deal with demanding circumstances, including the abrasive tank shell contact and, if liquid mounted, the contact between seal envelope and stored product. Each CTS foam seal is therefore engineered to deal with these circumstances making sure you will get the best possible performance from the investment made.



*Liquid mounted foam seal, suspended configuration.*

### Installation:

CTS is certainly capable to install any tank seal 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 seal. 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.



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