



CTS20LP (LOW PROFILE) SECONDARY SEAL

We offer a full range of secondary seal solutions. Secondary seals need to combine several aspects that can sometimes be contradicting and therefore many designs are available depending on the specific priorities and combinations of safety, storage conditions, stored product properties legislation and weather conditions. The most noteworthy aspect of a secondary seal is safety, a good secondary seal will effectively prevent rim fires regardless of weather conditions.

All CTS secondary seals are independent from the primary seal and can be installed on all possible rim configurations. We will design the seals specifically for each tank it is installed on and make sure it reduces emission in the best possible way. All our secondary seals are available in a wide range of materials, including galvanized steel and different grades of stainless steel.

The CTS20LP (Low Profile) is an independent rim mounted secondary seal designed to have a minimal elevation from the top of the rim which allows the tank to be filled to a maximum level for maximum working capacity. A CTS20LP has a seal elevation of approximately

150-250mm above the rim construction of the floating roof. Connecting the seal to the rim of the floating roof allows the seal to operate independent from the primary seal which is a requirement by virtually all environmental codes.

The seal compression springs are covered with a weather and hydrocarbon resistant antistatic fire safe PTFE (Teflon®) vapour fabric. This fabric supported by the springs ensures rainwater run off onto the floating roof. The CTS20LP low profile is approved by several major oil companies and an extensive number of tanks is operating with this low rise secondary seal configuration.

Solutions

- Maximum emission reduction
- Eliminating virtually all rain water ingress to the stored product
- Proven technology for secondary seals
- Optimum protection against rim fires
- Allows for a reduced foam dam height

Highlights

- Compatible with all stored products, including 100% aromatics, such as Benzene, Toluene and Xylene
- Available in different material combinations, including stainless steel and galvanized steel
- Suitable for both vertical and horizontal roof rim angles, no rim modifications required
- Expected service life in excess of 30 years
- Designed for each specific tank
- Easy installation
- Can be installed while the tank remains in service
- Independent rim mounted secondary seal
- Excellent vapour tightness,
- Compliant with all international (environmental) standards such as API, EN, BREF IPPC, EPA and the specific standards EEMUA 159, PGS 29, etc.
- Suitable for both welded and riveted tank shells

CTS20LP

Engineering

During the engineering phase our team of engineers will review local emission requirements, safety aspects and tank geometry to tailor the seal to each specific tank, this seal can be designed for large rim gap variations. All other important properties, such as material selection are taken into consideration for optimal performance of the seal. Proper material selection ensures a long term maintenance free service life. Seal materials have to withstand the stored product as well as the elements for longer periods of time. CTS will provide an optimum sealing solution that is suitable for dealing with these specific conditions.

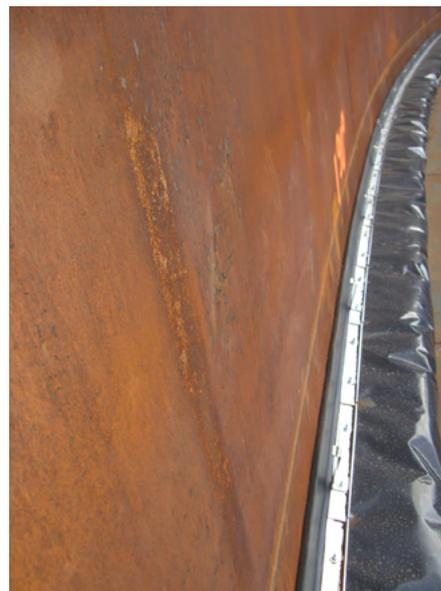
Completely in line with our sustainability vision all emission requirements will play a major role in the decisions we make during design.

Seal materials

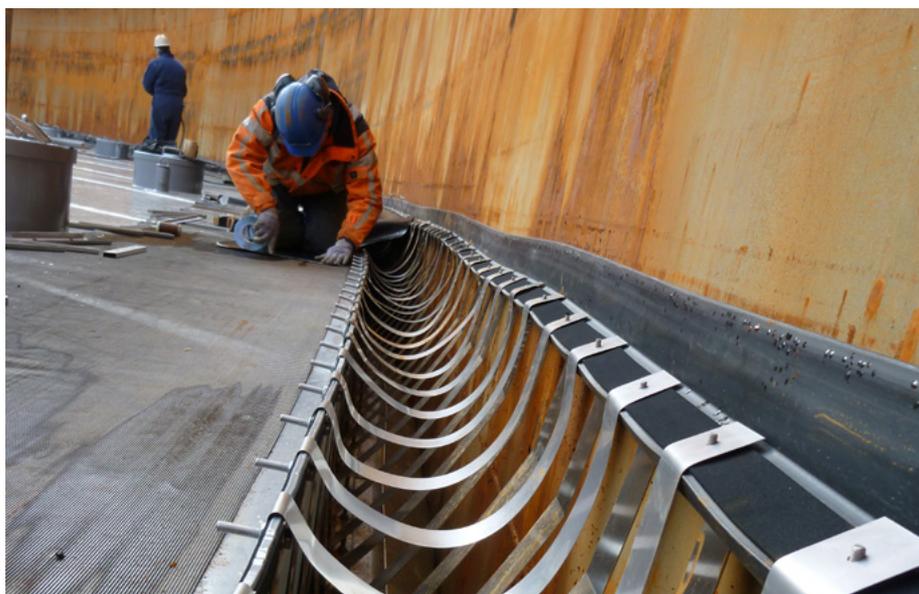
Not just the design of the seal is important for its performance. Correct material selection is very important to ensure a long term adequate performance for any seal. Seal materials have to withstand the stored product, ozone, UV-exposure and rain water contact. CTS is able to give you a reliable advise on the optimal combination of materials. This ensures an economic seal design that is able to deal with the specific conditions.

Support and assistance

If this datasheet triggers more questions our team of experts will be always available to support and assist you in selecting the optimal solution for your specific application.



CTS20LP low profile secondary seal.



CTS20LP low profile seal during installation.

All our product information and specifications are drafted with care but can be subject to change. We reserve the right to change product specifications.

REVISION NO.: 201904



CTS GROUP

**PARTNER IN
TANK STORAGE
SOLUTIONS.**

HEAD OFFICE

CTS NETHERLANDS B.V.

Riga 10
2993 LW Barendrecht
The Netherlands

TEL +31 (0)180 531 027

FAX +31 (0)180 531 848

EMAIL netherlands@cts.global

WEB www.cts.global