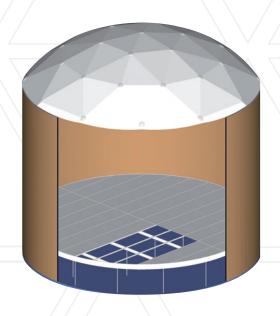
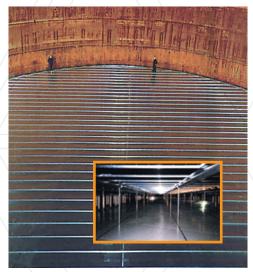
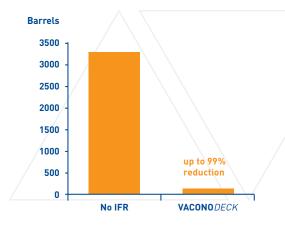
VACONO DECK





Evaporation Loss of a 30 m Tank p.a. based on MPMS 19.2 formerly API 2517 and 2519



VACONO *DECK* is a compact and efficient internal floating roof to be used in vertical storage tanks.

By using VACONODECK to cover the stored product, evaporation can be reduced by up to 99 %. This allows an exceptionally short payback time compared to other vapour reducing technologies.

The system thereby not only ensures a substantial increase in tank operation profitability but also protects the atmosphere, thus making an effective contribution towards the elimination of environmental pollution.

UNIVERSAL APPLICATION

VACONO *DECK* can be installed in new or existing tanks. It is compatible with almost all known storage products as it is made either of aluminium, stainless steel or a mixture of both. The low construction guarantees minimal loss of tank capacity while still allowing personnel to pass over its entire surface during inspection.

A wide range of seals and accessories is available to suit all possible requirements.

LOW ERECTION COSTS

The **VACONO** *DECK* is designed as a modular system which can be easily erected on site by local crews in compliance with the provided erection documents – our specialists can supervise the on-site erection worldwide, if this is required.

No welding is required for any of the **VACONO** *DECK*'s during installation. Most variants will pass through a standard 24" tank manhole.

MAINTENANCE FREE

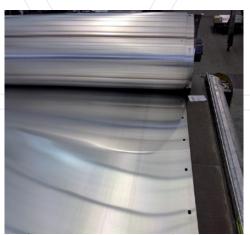
Due to its unique design, the **VACONO***DECK* is practically maintenance free throughout its life cycle.

NATIONAL AND INTERNATIONAL STANDARDS

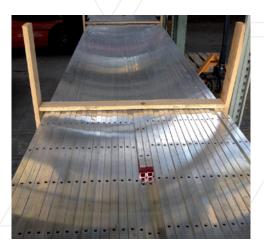
Each **VACONO** *DECK* is individually designed and tailor-made to fit the corresponding tank in compliance with national and international industrial standards, such as API 650 App.H, which are used within the petroleum and chemical industry.

It goes without saying that all the materials used have been carefully selected in accordance with the aspects of quality, duration and compatibility with the products to be stored.









VACONO DECK

VACONO QE² - QUICKNESS AND EFFICIENCY, QUALITY AND EXCELLENCE

VACONO's new trademark when it is about exceeding international market levels and setting new standards in terms of Quick Assembly, Efficiency in the use of materials, Quality of Installation and Excellence in operation.

The **VACONO** *DECK* **QE²** comes with a range of innovative and unique features that allow quick installation and most efficient operating conditions.

QUICK ASSEMBLY AND QUALITY OF INSTALLATION

- Supporting beams perfectly cut to length and angle can be installed without field trimming
- SS bolts pressed into the supporting beams every 250 mm and pre-drilled clamp bars can be installed without drilling on site
- Cover sheets perforated on the edges can be rolled over the supporting structure like a red carpet quickly and safely by one person
- Extruded circumferential profiles, pre-bent to the required radius can be installed without adding extra angles etc.
- Framing spacers prefabricated and welded in the workshop do not need trimming in the field
- All floating compartments are prefabricated and pressure tested in the workshop
- Quality control in the field is easy as all connections are prefabricated
- Overall installation time of under 0,5 hrs/m² for AL-P QE²
 (> 20 m diameter) is world class and by far leading in the industry

EXCELLENCE IN OPERATION AND EFFICIENCY IN THE USE OF MATERIALS

- Supporting legs in the structure every approx. 16 m² only and every 3,5 m on the edge deliver best-in-class weight distribution and stability
- The overall deck height is the lowest on the market for Aluminium pontoon type decks with only 8" (for Aluminium) float diameter that also ensure an optimal buoyancy distribution
- Optionally, Cladded Cover sheets can be used if the VACONODECK QE² is used in tanks with fixed steel roofs to avoid spot corrosion of rust particles falling from the steel roof and mixing with condensed water on the surface of the VACONODECK QE²

OVERVIEW OF DESIGN FEATURES OF THE VACONO DECK:

1. Choice of Materials:

- Aluminium (AL) for most storage products such as Gasoline or light crude
- Hybrid (MIX) for products with aggressive liquid phase or high water content (Alcohols, Bio Fuels). All wetted parts are made from Stainless Steel (PE Element optional)
- Stainless Steel (SS) for aggressive media (aromatics, chemicals)

2. Floater Design:

- Pontoon (P) for best cost/benefit ratio
- Full Contact (FC) for best efficiency and performance

3. Prefabrication and Efficiency of Use:

- Standard fabrication under QC systems according to industry standard
- QE² for Quick assembly, Quality of Installation, Efficiency in the use of materials and Excellence in operation

4. Deck Skin:

- Standard AL mill finish 3003 grade for AL Decks
- CLAD: Cladded Skin to prevent spot corrosion from rust particles falling off the steel roof (if applicable) and the tank wall

THE RESULT ARE 9 VARIANTS OF THE VACONODECK:

VACONO DECK AL-P: VACONO's standard AL Deck that

wacono DECK AL-P QE²: where the sall relevant industry standards VACONO's best selling AL Deck with

market leading installation time and

unbeatable use efficiency

VACONODECK AL-P QE² CLAD: AL-P QE² for tanks with steel roofs to

ensure a lifelong resistance to rust

particles from the roof

VACONO'S Full Contact AL Deck is the

most cost efficient in the market from

European production

VACONO DECK MIX-P: VACONO's standard Mix type Deck that

VACONODECK MIX-P QE2:

meets all relevant industry standards
VACONO's best selling Mix Deck with
market leading installation time and

unbeatable use efficiency

VACONO DECK MIX-P QE² CLAD: MIX-P QE² for tank with steel roofs to

ensure a lifelong resistance to rust

particles from the roof

VACONO DECK SS-P QE²: VACONO's stainless steel Pontoon

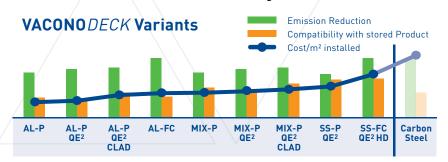
Deck for cost efficient covering of

aggressive storage media

VACONO DECK **SS-FC QE² HD:** Top of the line when it comes to

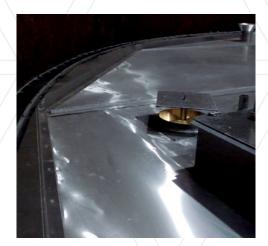
product compatibility, efficiency and Heavy Duty Service. No more excuses

not using a VACONODECK.















VACONO SEAL RTS











VACONO DECK SEALS AND ACCESSORIES

• VACONOSEAL PE / DOUBLE PE

The most popular wiper seal for gasoline storage made from a closed cell polyethylene material

VACONOSEAL T/DOUBLE T
 A teflon wrapped PU wiper seal with high corrosion resistance

VACONOSEAL RTS
 A spring type light weight seal made from teflon

VACONOSEAL CSH
 A mechanical shoe seal for rough environments and the
 VACONODECK SS-FE QE². Is available with PE secondary seal.

ACCESSORIES for VACONODECK

In addition to basic features such as antirotation or antistatic systems the **VACONO***DECK* can be equipped with a large variety of accessories; the most common are described below.

- Adjustable Legs: Allows manual adjustment of the IFR from a safe erection and inspection level to a lower operating level maximizing the usable tank volume.
- Hanging System: Allows the deck to be hung from the tank for interim storage of an incompatible product or for tank cleaning operations. Available in stainless or galvanized steel.
- Pipe Negotiations: Allows effective and safe penetration of columns, pipes and ladders of all sizes, through the VACONODECK.
- Gauging Funnels: Allows safe manual gauging as well as sampling of the product from the tank roof through the IFR keeping vapour losses to a minimum at the same time.
- Valve Manhole Combination: Functions not only as a manhole to ease entry onto the IFR from the tank floor but also as a vacuum breaker in that it opens before the IFR supports touch the tank floor.
- Pressure Vents: Fitted on the IFR in the vicinity of the inlet pipe/ diffuser, designed to pop up should a large volume of gas or air enter the tank thereby avoiding possible damage to the IFR itself.
- Vacuum Breakers: Ensuring that the VACONODECK is not harmed when product is let out of the tank.

PLEASE CONTACT US AT

www.vacono.com













GERMAN QUALITY WORLDWIDE