



TRAC-LOC

VERTICAL LOCK-SEAM TANK INSULATION



Pole to pole, for every heat management need, one undisputed industry leader !

As the world's largest provider of complete electrical heat management systems, we provide innovative products and turnkey solutions that offer full life cycle support ranging from front-end engineering and installation to maintenance, repair, and operation services for projects of any size and scope.

Our operation u-in 48 countries, and world-wide experience, uniquely positions us to meet and exceed your project needs. We can bring solutions to all your tank farm heat management needs.



TRAC-LOC SYSTEM

The Trac-Loc system is a double-locking standing seam insulation panel system that delivers structurally superior, maintenance-free, and lower cost insulation than conventional tank insulation methods. Trac-Loc is ideal for large, flat-bottomed tanks used for storing materials that are sensitive to temperature fluctuations and require a covering of insulation and jacketing to reduce heat loss or gain.

The Trac-Loc Vertical Lock-Seam Tank Insulation system is unique in its design, panel construction and installation techniques. Trac-Loc is provided as a complete installed system.



VERTICAL LOCK-SEAM TANK INSULATION

WHY TRAC-LOC?

- Has a very robust system able to withstand the most severe weather conditions
- Reduces time spent for construction
- Avoiding use of scaffolding resulting in better safety statistics
- Long lifetime
- None fibrous materials (closed cell structure, no water absorption, better K-Value compared to mineral wool)
- High energy savings
- Reduced moisture ingress leads to minimised under insulation corrosion
- Minimized maintenance
- Repairable, single panels may be replaced if damaged
- Environmental nicely in carbon footprint law registration

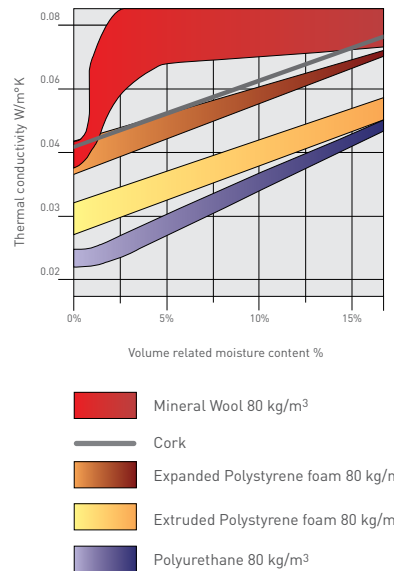


The benefits of the Trac-Loc system result in highly reduced Total Cost of Ownership (TCO) compared to conventional insulation systems!

The TCO calculation is based on the investment cost and all incorporated operational costs over the life time of a tank insulation system:

1. The Total Investment Cost (TIC)
2. The energy cost to maintain the tank temperature
3. The maintenance cost of the insulation system

Pentair has a calculation programme that can be easily loaded with client and market specific data after which the potential financial savings based on the TCO can be calculated. The history and executed projects have proved that these savings can be substantial.



The graph shows 5% increase in water contents results in 200% increase in thermal conductivity of mineral wool.

Polyisocyanurate (PIR) insulation materials

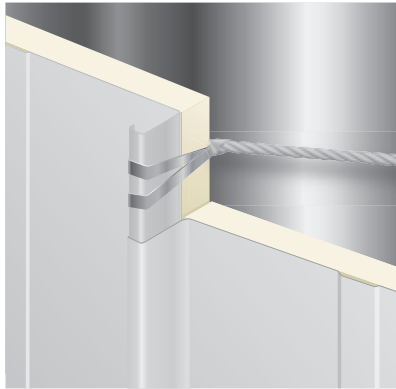
- PIR is a load bearing hard foam material that does not degenerate, resulting in stable insulation behavior over the full life time.
- The Trac-Loc panels with PIR have lower K-values (higher thermal resistance) compared to conventional insulation materials.

The superior insulation behaviour of PIR material results in:

- Less energy needed to maintain the content of the tank at the required temperature.
- Longer cool down cycle.
- High energy savings.

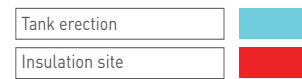


The Trac-Loc advanced interlock panel system consists of prefabricated panels of laminated insulation and jacketing material. Panels can be the entire height of the tank eliminating horizontal joints and jacketing penetrations. The panels are easily installed by closing the full standing seam creating a homogenous jacket that not only secures the panel to the tank but also reduces moisture ingress.



Certified cables are placed around the tank. Stainless steel clips fixed on this cable are captured within the seam made between two panels resulting in a mechanically superior system that has inherent expansion and contraction properties.

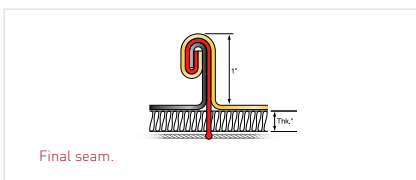
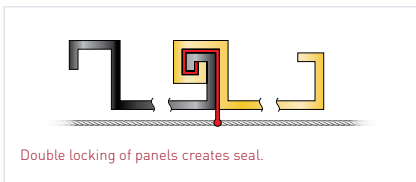
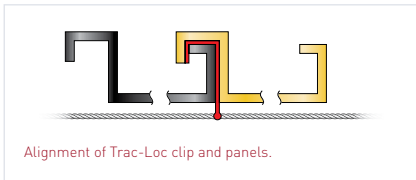
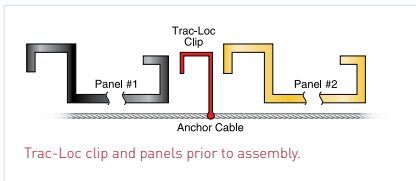
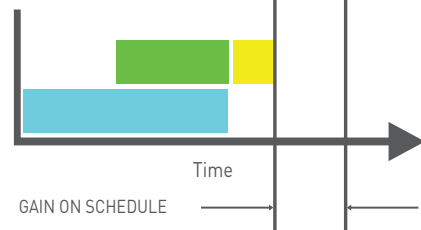
Prefabricated panels are stored in containers or a warehouse on site. From there the panels are easily installed by using a hanging basket or cherry picker eliminating scaffolding requirements.



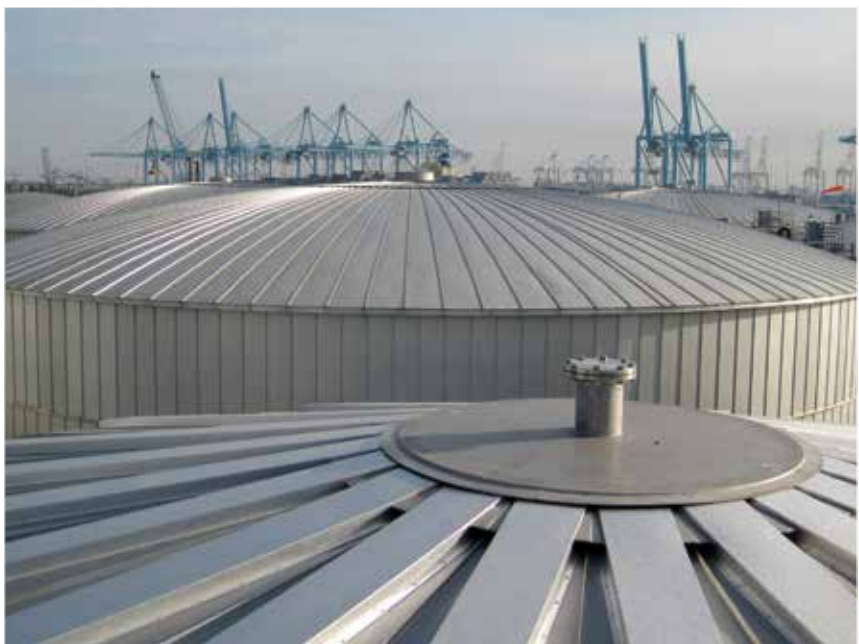
Conventional Insulation



Trac-Loc Insulation



Time usually spent on site and related to construction is transferred to manufacturing activities in a controlled workshop environment.





CLIENTS/PROJECTS

- **IOI Loders Croklaan Oils BV**
- The Netherlands
- **Neste Latvija Riga Oil terminal** - Latvia
- **Kanab Terminals BV** - The Netherlands
- **SvG Intermol Ltd** - United Kingdom
- **Statoil Norge AS** - Norway
- **EDF/Tissot** - France
- **Shell Chemical Company** - USA
- **BASF** - USA
- **Total** - USA
- **Vopak** - USA
- **BP** - USA
- **Mulgrew Oil** - USA
- **Reliance Petroleum Ltd.** - India
- **Saudi International Petrochemical Co. (SIPCHEM)** - Saudi Arabia
- **Terminals Pty. Ltd.** - Australia
- **Al Takreer** - UAE
- **Sumatec Corporations Sdn. Bhd.**
- Malaysia
- **Cargill** - The Netherlands
- **Total** - The Netherlands
- **BP REFINERY ROTTERDAM** - The Netherlands
- **OILTANKING** - The Netherlands
- **PREEMRAFF** - Sweden
- **VESTA TERMINALS** - Belgium





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