Raychem

*excellence is everything*

# Trac-Loc Tank Insulation System

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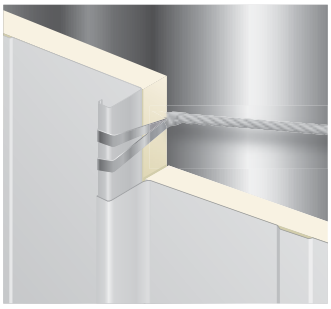
## Industrial Solutions

As the world's largest provider of complete electrical heat management systems, primarily for the general process, oil and gas, chemical and power generation industries, we provide innovative products and turnkey solutions under market-leading brands—Raychem and Tracer. Our premier turnkey solutions include full life cycle support—ranging from front-end engineering and installation, to maintenance and operation services. Our operations in 48 countries, and worldwide experience, uniquely positions us to manage the heat you need for projects of any size and scope. We are the experts.

## The Heart of Our Solutions

The Raychem Trac-Loc system is thermally efficient and a cost effective solution to help reduce a customer's total installed and operating costs. It delivers structurally superior, maintenance free, and a lower insulation cost than conventional tank insulation methods. Raychem Trac-Loc is ideal for large, flat-bottomed tanks used for storage of materials that are sensitive to temperature fluctuations and require a covering of insulation and jacketing to reduce heat loss or gain. With its unique design, panel construction and installation techniques, Trac-Loc is provided as a complete installed heat management system.

# Panel Design



## PANEL CONSTRUCTION

Trac-Loc panels are fabricated by laminating insulation material to a preformed metal jacket. Panels can be the entire height of the tank eliminating jacketing penetrations and reducing the total installation cost. They are manufactured in one continuous piece equal to the height of the tank, eliminating horizontal joints. The panels can be made from one or more industrial insulating materials. Jacket materials come in a wide range of colors and conform to industry standards.

## MATERIALS

### Jacket*:

| | |
|---|---|
| Aluminum | .024 in (0.6 mm) |
| Stainless steel | .016 in (0.4 mm) |
| Coated steel | .024 in (0.6 mm) |

*Jacket material can be coated for corrosive environments and colored for aesthetics.

### Insulation:

| | | |
|---|---|---|
| Polyisocyanurate | K = .19 BTU • In/Hr • Ft • °F | Tmax = 250°F (121°C) |
| Fiberglass | K = .24 BTU • In/Hr • Ft • °F | Tmax = 850°F (454°C) |
| Mineral Wool | K = .26 BTU • In/Hr • Ft • °F | Tmax = 1200°F (649°C) |
| Cellular Glass | K = .30 BTU • In/Hr • Ft • °F | Tmax = 900°F (482°C) |
| Calcium Silicate | K = .34 BTU • In/Hr • Ft • °F | Tmax = 1200°F (649°C) |
| Expanded Perlite | K = .34 BTU • In/Hr • Ft • °F | Tmax = 1200°F (649°C) |

K-Factor based on 100°F (38°C) mean temperature, per manufacturer data sheets.

See the Engineering Specification for Trac-Loc Panel Systems (H57589) for detailed temperature range information.

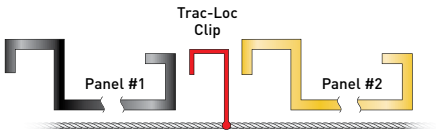
# Advanced Interlock Panel System for Tank Insulation

## DESIGN

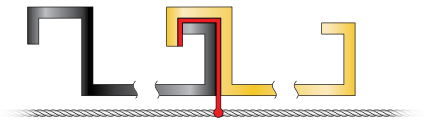
The Trac-Loc advanced interlock panel system consists of prefabricated panels of insulating and jacketing material. These panels, fabricated to the height of the storage tank, include mating seams that are mechanically folded together. This mechanical seam creates a homogenous jacket that not only secures the panels to the storage tank, but also reduces moisture ingress, has superior wind resistance, and has inherent expansion and contraction properties.

## INSTALLATION

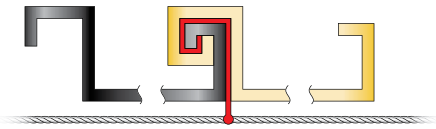
Installing the Trac-Loc tank insulation does not require conventional scaffolding or horizontal bands, making the installation cost effective and maintenance free.



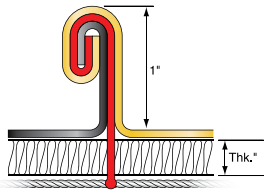

Trac-Loc clip and panels prior to assembly.



Alignment of Trac-Loc clip and panels.



Double locking of panels creates seal.




Final seam.

# System Benefits

## WHY TRAC-LOC?

The unique construction methods used with Trac-Loc offer many advantages over conventional insulation systems.

### Cost effective

Eliminating scaffolding results in lower installed cost and schedule compression.

### Superior structure

Continuous 360° interlocking seams provide rigidity that reduces moisture ingress and delivers superior wind resistance.

### Maintenance free

Interlocking panels eliminate the use of external horizontal bands that require maintenance over time. Screws are not required, so jacket penetrations are eliminated.

### Repairable

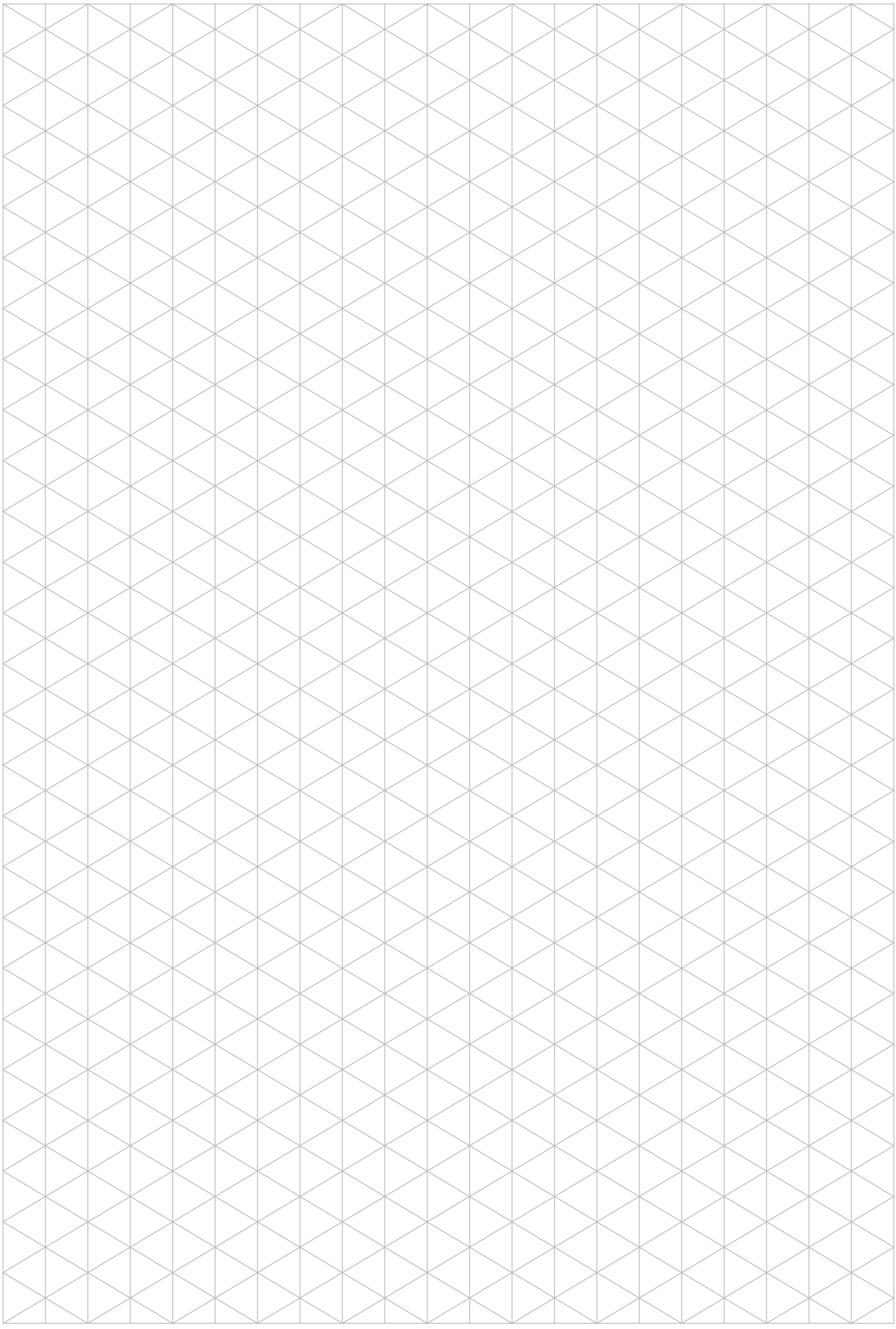
Single panels may be replaced if damaged.

### Aesthetically Superior

Trac-Loc panels offer a wide range of colors for a clean finished look.

### Design Ingenuity

Incorporating expansion/contraction joints for all operating temperatures. Designing solutions to fit your unique applications.



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