

LINITHERM LOOP

Dämmstark. Nachhaltig. Gesünder.

Flat roof insulation LINITHERM LOOP PAL gradient

- ✓ Suitable for waterproofing with bitumen and synthetic membranes
- ✓ Ecologically healthy and free from harmful substances
- ✓ Around 60% biomass*
- ✓ Provides a wide range of laying and drainage methods

* PU raw materials according to biomass balance methods or bio-based



Erfüllt die QNG-Anforderungen an Schadstoffvermeidung in Dämmstoffen. „pure life“ ist eine Marke der UGPU.



Produkt gelistet im
Navigator



loop.linzmeier.de

LINZMEIER

Insulate with system

Insulating with a gradient. For durable and en

LINITHERM LOOP Our recipe for sustainable, ecological building and living.

The thin and lightweight insulation is made from approximately 60 percent biomass* and achieves a U-value of 0.14 W/(m²K) that qualifies for subsidies, even with a 160 mm insulation panel. A building envelope insulated with LINITHERM LOOP significantly reduces heat loss and lowers CO₂ emissions. This thermal insulation creates a healthy indoor climate and comfortable living environment, while simultaneously saving on heating costs and protecting the climate.

The aluminum facings of LINITHERM LOOP products are recyclable. LINITHERM LOOP maintains its consistently high-efficiency insulation properties for the entire lifespan of a building!

Bevelled insulation panels perfectly complementing each other

LINITHERM LOOP gradient insulation uses bevelled insulation panels to create a slight gradient during installation. Rain and condensate flow to the drain at the lowest point of the roof.

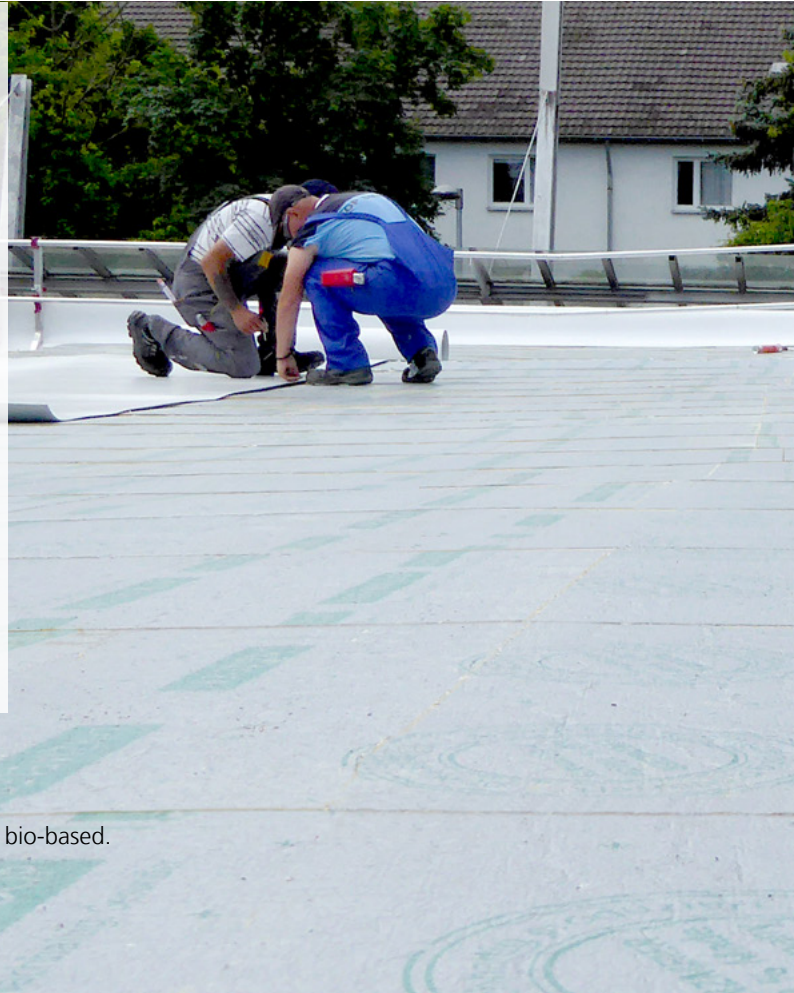
The panels have coordinated start and finish dimensions. Thanks to four different panel thicknesses you can create a tightly insulated space of up to 4.8 m in length. If your roof is longer or wider, use two or more layers of our system. This panel-based design eliminates the need for time-consuming specialised orders, guaranteeing shorter delivery times and a fast installation workflow.

Layering principle: LINITHERM LOOP gradient insulation and flat roof insulation

LINITHERM LOOP PAL gradient
LINITHERM LOOP PAL flat roof insulation
Concrete ceiling



- Around 60% biomass*
- Lowest thermal conductivity of all bio-based insulation materials
- CO₂ neutral production
- QNG ready
- Quick and easy installation
- Thin, yet with excellent insulating properties
- Lightweight
- Resistant to deformation and dimensionally stable
- Humidity- and mildew-resistant
- Recyclable



* PU raw materials according to biomass balance methods or bio-based.

energy saving flat roofs

High-performance PU rigid foam insulation material – for superior thermal insulation at minimal thicknesses.

The composite elements of the LINITHERM LOOP gradient insulation consist of LINZMEIER's high-performance PU rigid foam insulation material. Thanks to their high thermal insulation performance, statutory regulations are met even with minimal assembly heights.

Thickness comparison for a U-value of 0.14 W/(m²K)

LINITHERM
LOOP
160 mm
TCL 023

Rock wool
280 mm
TCL 040

EPS
240 mm
TCL 035

LINITHERM LOOP gradient insulation

One of the greatest challenges of flat roofs is the fact that water may accumulate. As an expert in durable, value-preserving insulation with high energy savings, LINZMEIER has developed a simple yet ingenious solution for this challenge. With a gradient of approximately 2%, the minimum requirements set forth in standards and the ZVDH guidelines are also met.

Healthy for the home and guaranteed low-emission

All LINITHERM LOOP products are certified with the "pure life" environmental quality label. This seal is awarded only to products that meet strict criteria and originate from monitored production processes. Thanks to this certification, these insulation materials are QNG-compliant and meet the requirements set forth in Annex 3.1.3 of the QNG (National Quality Seal for Sustainable Building) regarding the avoidance of harmful substances in insulation materials.



Design without compromise

More space for aesthetically pleasing solutions

Lean layering and lightweight constructions

LINITHERM LOOP gradient insulation eliminates the need for heavy constructions, such as a sloped screed. The excellent thermal insulation of rigid foam enables extremely lean insulation solutions – with all the visual benefits for aesthetically pleasing designs.

Short installation times and layout drawings as a service

Thanks to the well designed installation system, extended planning effort is now a thing of the past. The insulation panels can be delivered at short notice and installed quickly without requiring any numbering. On request we can create a layout drawing for your order as per your measurements.

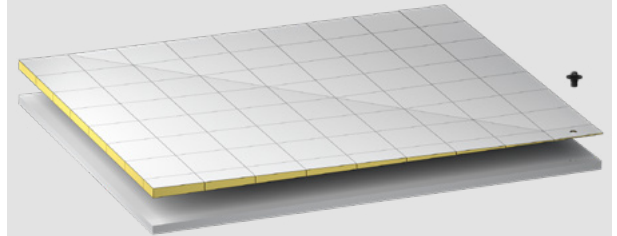
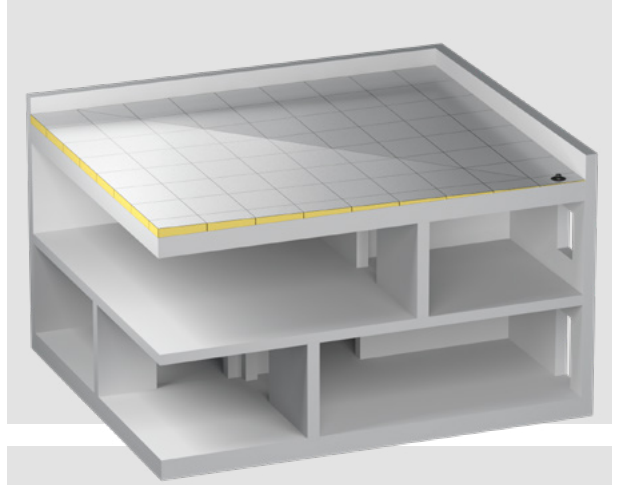


Pressure-resistant ground for more usage options

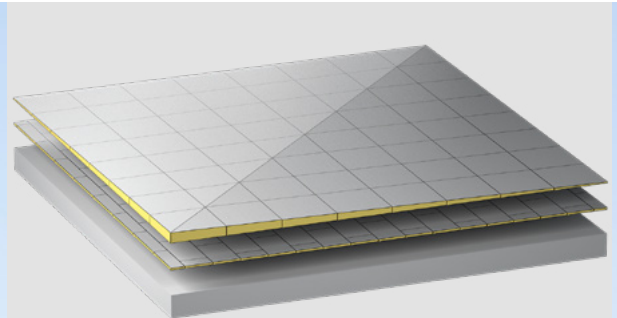
LINITHERM LOOP gradient insulation has excellent pressure resistance and can easily be covered by materials such as gravel or patio boarding. Even when the panels are uncovered you can walk on them without risking any damage or leaving »trails«. This makes them the ideal base for green roofs, patio boarding, or gravel, and an energy-proof solution for storeys not covering the entire floor space.

Customised layering

A single insulation layer already achieves best insulation values. If you require a very high level of thermal insulation or need to cover widths of more than 4.8 m, install two layers: one layer of LINITHERM LOOP flat roof insulation and one layer of LINITHERM LOOP gradient insulation.



LINITHERM LOOP gradient insulation with valley boards from 130 mm to 30 mm, 1 layer for up to 4.8 m and gully drainage

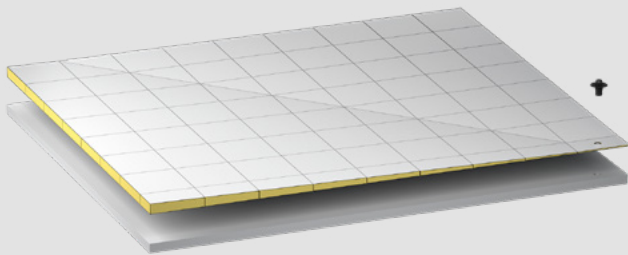


LINITHERM LOOP gradient insulation with ridge boards from 130 mm to 30 mm, for improved U-value with end-to-end base for gutter drainage

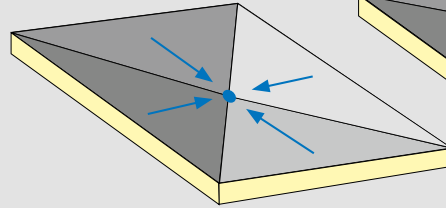


Perfection on all sides

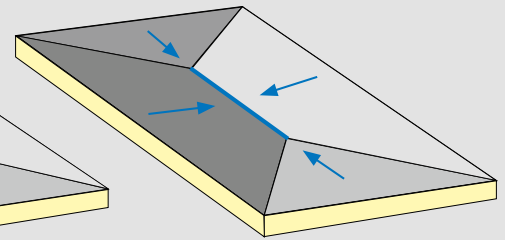
Modular system for a variety of installation options



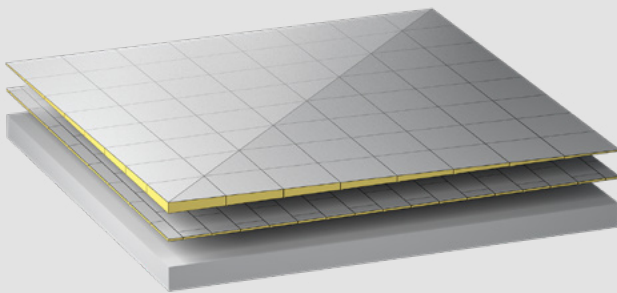
Inside drainage with LINITHERM LOOP gradient insulation and valley boards



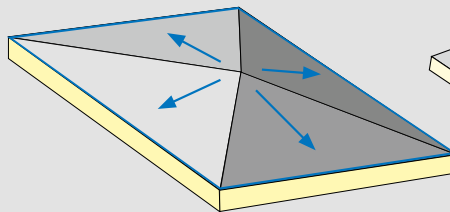
Point drainage with LINITHERM LOOP gradient insulation and valley boards



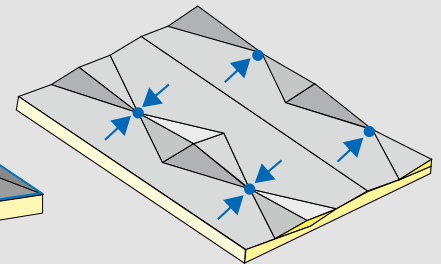
Inside drainage with LINITHERM LOOP gradient insulation and valley boards



Outside drainage with LINITHERM LOOP gradient insulation and ridge boards

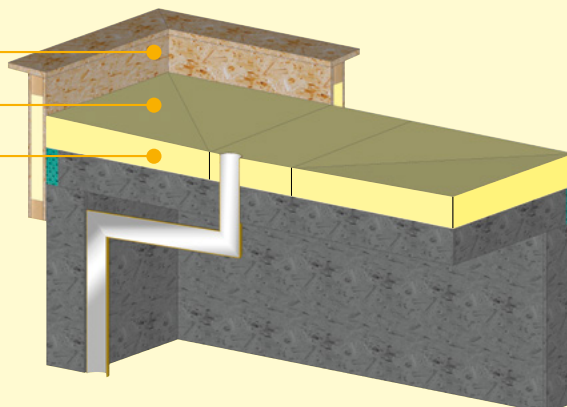


Outside drainage with LINITHERM LOOP gradient insulation and ridge boards



Point drainage with LINITHERM LOOP gradient insulation and ridge turret

- LITEC parapet element
- LINITHERM LOOP PAL gradient
- LINITHERM LOOP PAL flat roof insulation



For flat roof constructions »in one pour«:
LITEC parapet element and LINITHERM LOOP gradient insulation

LINITHERM plus LITEC – the perfect duo

For quick and safe edge-of-roof designs, LITEC offers a two-piece parapet element. It is very robust, bears mechanical stress, and is easy to install. Fixing is done through wooden part.

Lightweight and handy

Quick and safe installation

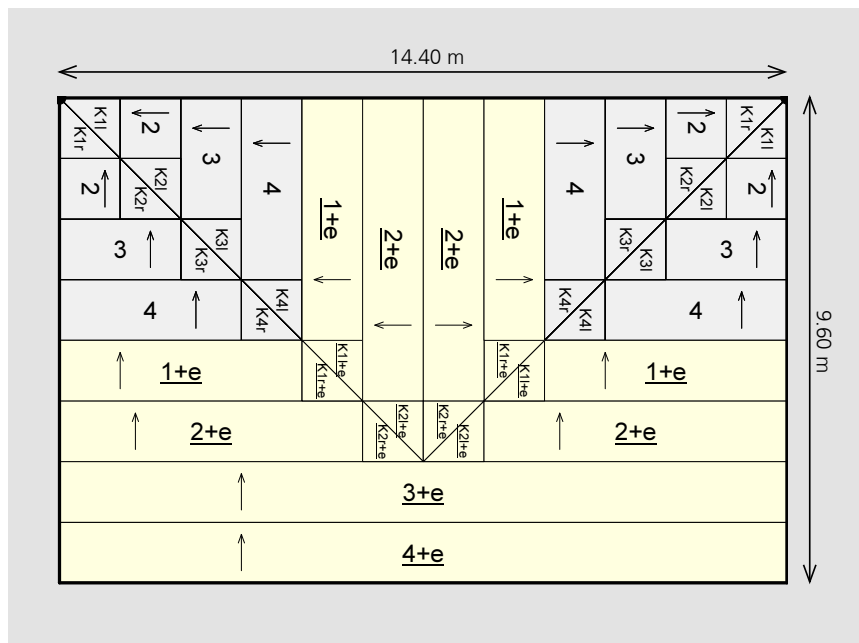
Good-bye numbering – hello ease of installation

The gradient required by technical regulations is automatically created during the installation process. A simple and intuitive layout drawing is all you need. Our walk-in pressure-resistant insulation panels are another plus for efficient installation workflows. In no time at all you will have covered large areas. If necessary you can easily cut all the insulation panels to size, for example, to allow space for skylights.

Including planning by LINZMEIER

You can request a checklist for measuring your roof area from your Linzmeier specialist advisor. Sketch the positions of light domes, chimneys, or other structures such as lift shafts accurate to size. We will create an exact layout drawing based on these dimensions and sketch.

Plan example with valley boards



Example

Layout drawing for LINITHERM LOOP gradient insulation with valley boards

1-layer installation up to 4.80 m, afterwards 2-layer installation with LINITHERM LOOP PAL flat roof insulation

Gradient: 2.08%
Min. height: 30 mm
Max. height: 230 mm

Roof surface: 138.24 m²
Weight: 685 kg
U-value 0.18 W/(m²K)

Plan example with ridge boards

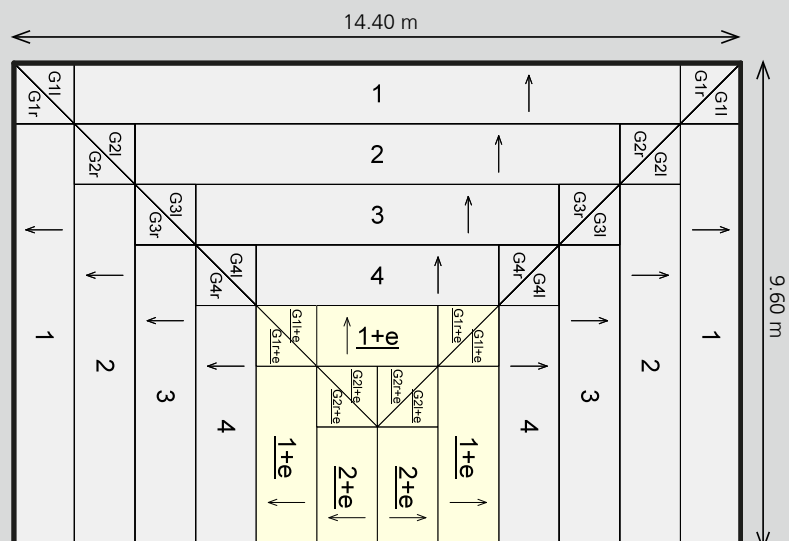
Example

Layout drawing for LINITHERM LOOP gradient insulation with ridge boards

2-layer installation with LINITHERM LOOP PAL flat roof insulation as first insulation layer up to 4.80 m, afterwards 2-layer installation

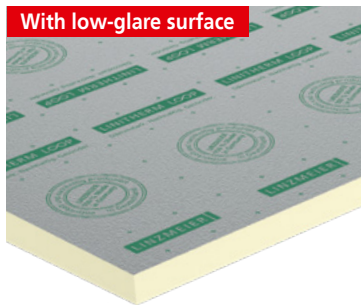
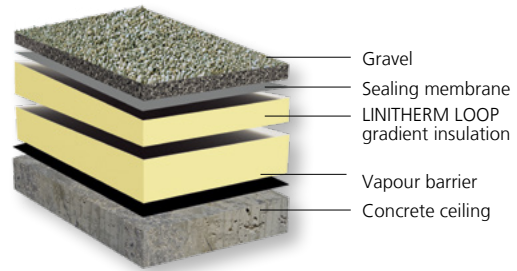
Gradient: 2.08%
Min. height: 80 mm
Max. height: 280 mm

Roof surface: 138.24 m²
Weight: 633 kg
U-value: 0.18 W/(m²K)



Suitable for waterproofing with bitumen and synthetic membranes, this tapered insulation stands out thanks to its dimensional stability and a low-glare surface on one side. The integrated standard slope of 2 percent meets the requirements of the flat roof guidelines and ensures reliable drainage. With a thermal conductivity rating (TCL) of 023, these insulation boards enable a fully bonded, exceptionally slim overall roof assembly. Simple gradient plans and order-specific kitting facilitate both planning and installation.

Gradient insulation LINITHERM LOOP PAL with gravel on concrete

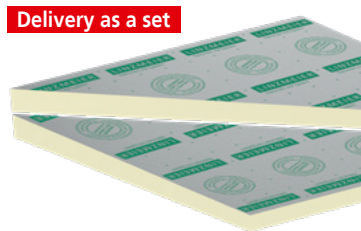


With low-glare surface

LINITHERM LOOP PAL gradient PH 22502010

Insulation core	PU rigid foam acc. to DIN EN 13165, class E acc. to DIN EN 13501-1, coated with aluminum film on both sides, low-glare on one side
Edge joints	Round about edgeless cut
Overall dimension	1200 × 1200 mm

Thickness mm total	Gradient approx. %	Quantity per pallet Piece	PU λ _D W/(mK)
30/55	2	48	0.022
55/80	2	32	0.022
80/105	2	24	0.022
105/130	2	20	0.022

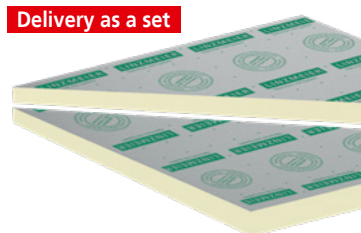


Delivery as a set

LINITHERM LOOP PAL gradient ridge board 45° angle PH 22502020

Set consisting of ridge board left and ridge board right, low-glare on one side

Thickness mm total	Gradient approx. %	Quantity per pallet Sets	PU λ _D W/(mK)
30/55	2	32	0.022
55/80	2	24	0.022
80/105	2	20	0.022
105/130	2	16	0.022



Delivery as a set

LINITHERM LOOP PAL gradient valley board 45° angle PH 22502020

Set consisting of valley board left and valley board right, low-glare on one side

Thickness mm total	Gradient approx. %	Quantity per pallet Sets	PU λ _D W/(mK)
30/55	2	32	0.022
55/80	2	24	0.022
80/105	2	20	0.022
105/130	2	16	0.022



Approx. 2 % gradient



Optimal cold protection



Optimal heat protection



Moisture resistant



Maximum insulation with minimum panel thickness



Pressure resistant



Odorless & physiologically safe



Recyclable



Positive building biology



Cuts costs, ensures excellent ROI

Linzmeier Bauelemente GmbH
Industriestraße 21
88499 Riedlingen
Tel.: +49 (0) 73 71 18 06-0

Linzmeier Bauelemente GmbH
Schortentalstraße 24
07613 Königshofen/Thüringen
Tel.: +49 (0) 3 66 91 7 22-0

Info@Linzmeier.de
www.Linzmeier.de



QR code: Link to the installation instructions



QR code: Link to the technical data sheet



LINZMEIER
Insulate with system