

**LINITHERM®**

insulation systems

**LINZMEIER**

building elements

Flat roof

■ **PAL Gradient**■ **PGV Gradient**

## Insulation with inclination - for durable, energy-saving flat roofs

LINITHERM „gradient“ insulation systems were developed specifically for flat roofs. Simply by laying slanted insulation boards an inclined plane is created, ensuring that water flows to the low point of the roof.



TCL 022 or TCL 028/026

Thin insulation, maximum effect

High pressure resistance

Easy processing and laying

**Greater safety**

Easy laying without numbering

Lightweight, easily handled insulation elements

Short-term resistance to hot bitumen up to 250 °C (LINITHERM PGV Gradient)

High pressure resistance

Can be combined with LITEC parapet

**More options**

Ideal basis for: planted roofs, terrace slabs, gravel layers etc.

**Save more energy with PUR**

High insulation performance with low height

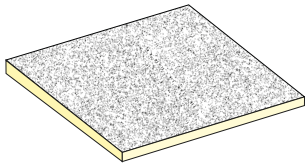
Heat protection in summer, thermal insulation in winter

Insulating core of PUR/PIR rigid foam

Does not decay, can be recycled

Positive ecological balance

PAL Gradient

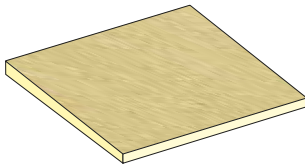


**LINITHERM PAL Gradient**

**Applications:** Roof with 2% gradient  
**Insulating core:** PUR/PIR rigid foam acc. to DIN EN 13165, class E, aluminium foil on both sides = vapour barrier  
**Edge joints:** round about edgeless cut  
**Coverage dimension:** 1200 x 1200 mm

Total thickness mm	Gradient %	Pallet contents Qty.	m <sup>2</sup>	TCL PUR/PIR
30/55	2	48	69,1	022
55/80	2	30	43,2	022
80/105	2	22	31,7	022
105/130	2	18	25,9	022

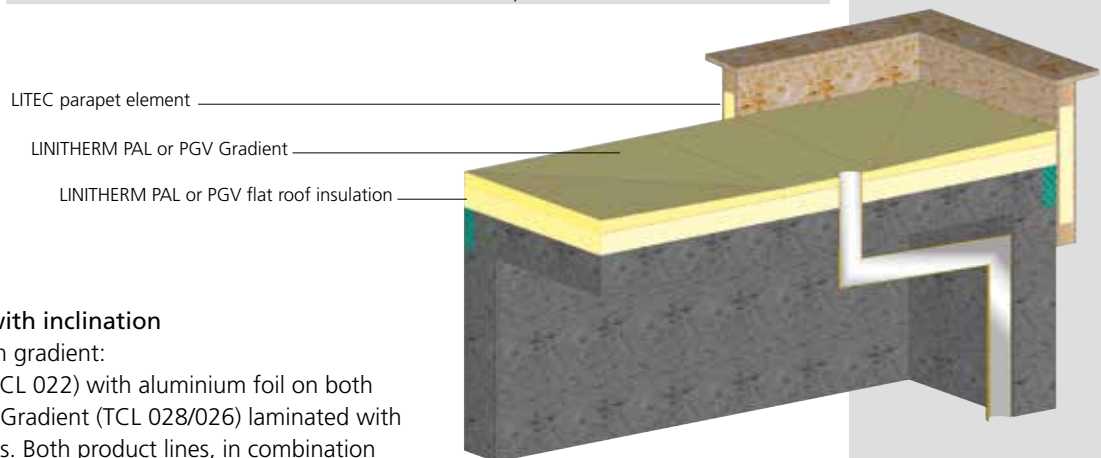
PGV Gradient



**LINITHERM PGV Gradient**

**Applications:** Roof with 2% gradient  
**Insulating core:** PUR/PIR rigid foam acc. to DIN EN 13165, class E, mineral fleece on both sides (thickness 5/30 mm unlaminated)  
**Edge joints:** round about edgeless cut  
**Coverage dimension:** 1200 x 1200 mm

Total thickness mm	Gradient %	Pallet contents Qty.	m <sup>2</sup>	TCL PUR/PIR
5/30	2	116	167,0	028
30/55	2	48	69,1	028
55/80	2	30	43,2	028
80/105	2	22	31,7	026
105/130	2	18	25,9	026



**LINITHERM - insulation with inclination**

Two insulation systems with gradient:

LINITHERM PAL Gradient (TCL 022) with aluminium foil on both sides, and LINITHERM PGV Gradient (TCL 028/026) laminated with mineral fleece on both sides. Both product lines, in combination with LINITHERM flat roof insulating boards, meet the tough requirements of flat roof insulation. The gradient is created as the slanted insulating boards are laid. Heavy constructions, such as an inclined screed, are unnecessary. Optimum insulation with low thickness is guaranteed the same time.

**LINITHERM Gradient - the pressure-resistant substrate**

The insulation boards from the LINITHERM Gradient range are highly resistant to pressure. Materials such as gravel or terrace slabs can be laid on top of them without difficulty. It is even possible to walk on the insulation boards when they are uncovered. A "beaten path" does not develop on the roof surface.

**LINITHERM - for flat roofs with extra value**

The flat roof is one of the most economical and versatile of the many kinds of roof construction. In addition to optimum space utilisation, they offer additional usage options in both residential and commercial buildings, such as terraces, planted roofs or as accessible roof gardens.

**LINITHERM plus LITEC - the perfect pair**

LITEC offers a two-piece parapet element for fast, secure roof edge construction. It is extremely strong, can accept mechanical stress, and is easy to process. It is attached using wooden concealed edge band. We would be pleased to send you further information.

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