



Flat roof

■ PAL

■ PGV

LINITHERM - for economical and long-term thermal insulation of flat roofs

LINITHERM Universal insulation boards are ideally suited for insulating flat roofs. They are pressure resistant and feature long-term resilience to temperature.



The safe insulation...

- Low construction height
- High insulation performance
- Hot bitumen resistant, short-term up to 250°C (LINITHERM PGV)
- Does not decompose
- Recyclable

...in perfect professional quality...

- Light and manageable
- Quick to install
- Other usage possibilities, e.g. roof garden or terrace

... for PUR(e) saving energy

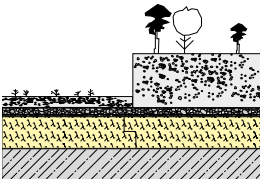
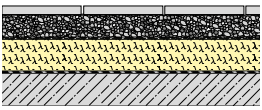
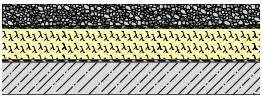
- Protection from heat in the summer
- Thermal protection in the winter
- Insulation core made of PUR/PIR rigid foam
- Positive ecobalance

Constantly high insulation values

Thin insulation, maximum effect

High pressure resistance

Easy handling and laying



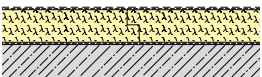
LINITHERM PAL or LINITHERM PGV flat roof insulation under gravel, terrace or green roof

LINITHERM PAL

- Insulation core:** PUR/PIR rigid foam according to DIN EN 13165, class E, both sides with aluminium foil
- Edge joints:** Thickness 20 - 40: round about edgeless cut
Thickness 50-100, 200 mm: round about edgeless cut or with graded notches
Thickness 120-240 mm: with graded notches
- Overall dimension:** 1200 x 600 mm (= calculation measurement)
(covered measurement with graded notches 2cm smaller)

Thickness mm PUR/PIR	Package contents Qty.	m ²	Pallette contents Qty.	m ²	TCL PUR/PIR	U value** [W/(m ² K)]
20	25	18.00	250	180.0	022	0.95
30	16	11.52	160	115.2	022	0.67
40	12	8.64	120	86.4	022	0.51
50	10	7.20	100	72.0	022	0.41
60	8	5.76	80	57.6	022	0.35
70	7	5.04	70	50.4	022	0.30
80	6	4.32	60	43.2	022	0.27
100	5	3.60	50	36.0	022	0.21
120	4	2.88	40	28.8	022	0.18
140	3	2.16	36	25.9	022	0.15
160	3	2.16	30	21.6	022	0.14
*180	2	1.44	28	20.2	022	0.12
*200	2	1.44	24	17.3	022	0.11
*220	2	1.44	20	14.4	022	0.10
*240	2	1.44	20	14.4	022	0.09

other thicknesses on request / Delivery of complete packages



LINITHERM PGV Flat roof insulation under sealing

LINITHERM PGV

- Insulation core:** PUR/PIR rigid foam according to DIN EN 13165, class E, on both sides with mineral fleece
- Edge joints:** Thickness 20 - 40: round about edgeless cut
Thickness 50-100, 200 mm: round about edgeless cut or with graded notches
Thickness 120-240 mm: with graded notches
- Overall dimension:** 1200 x 600 mm (= calculation measurement)
(covered measurement with graded notches 2cm smaller)

Thickness mm PUR/PIR	Package contents Qty.	m ²	Pallette contents Qty.	m ²	TCL PUR/PIR	U value** [W/(m ² K)]
20	25	18.00	250	180.0	028	1.17
30	16	11.52	160	115.2	028	0.83
40	12	8.64	120	86.4	028	0.64
50	10	7.20	100	72.0	028	0.52
60	8	5.76	80	57.6	028	0.44
80	6	4.32	60	43.2	026	0.31
100	5	3.60	50	36.0	026	0.25
120	4	2.88	40	28.8	025	0.20
140	3	2.16	36	25.9	025	0.17
160	3	2.16	30	21.6	025	0.15
*180	2	1.44	28	20.2	025	0.14
*200	2	1.44	24	17.3	025	0.12
*220	2	1.44	20	14.4	025	0.11
*240	2	1.44	20	14.4	025	0.10

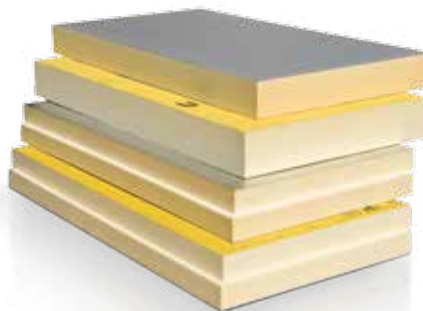
other thicknesses on request / Delivery of complete packages

* These products may have longer delivery periods
** Thermal conductivity coefficient U takes the thermal resistance (R_{si} = 0.1 m²K/W and R_{se} = 0.04 m²K/W).
Object-specific features according to DIN EN ISO 6946 are not taken into account.

LINITHERM PAL and LINITHERM PGV
- efficient thermal insulation for flat roofs

LINITHERM ideally fulfils the highest material requirements posed by insulating flat roofs. Due to the high insulation effect the construction height remains low. The insulation panels are moisture-resistant, inherently stable, true to size and age-resistant.

LINITHERM PGV is even able to resist high temperature deviations from -30°C in winter to up to 90°C in summer. In the short-term it is resistant to temperatures of up to 250°C. Therefore building up sealing layers is no problem. LINITHERM flat roof insulation panels are lightweight and easy to handle. Even large roof areas are installed quickly.



Further usage options

The flat roof is one of the most economical amongst the range of different roof constructions. It allows for optimal use of space and provides additional usage options. Therefore it is not just an interesting alternative for residential buildings but also for commercial properties. LINITHERM flat roof boards are so pressure resistant that they are best suited for laying underneath gravel embankment, holohedral placed patio slabs and green roofs.

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