



LINZMEIER

Insulate with system

The optimal insulation system for a rain- and waterproof roof

Over-rafter insulation system

LINITHERM®

PAL 2U Plus



≥ 12°
roof pitch

Sarking membrane class A for roof pitches from 12°



Rainproof and waterproof subroof

Permanently high insulation value – λ_D 0.022 W/(mK)

Thermal insulation and underlay

For creating a rainproof/waterproof subroof (with additional measures)

Suitable as temporary roof covering

Driving-rain-safe according to UDB-A



Meets the QNG requirements for prevention of hazardous substances in insulants. "pure life" is a seal of approval issued by the UGPU association.

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LINITHERM® PAL 2U Plus with premium underlay

The perfectly fitting tongue and groove joint guarantees an insulating surface which is free of thermal bridging and the quick and safe insulation of even large roof spaces. The stable, pressure-resistant insulation core made of PU rigid foam is laminated on both surfaces with aluminum foil. On the top side, a high quality, diffusible and tear-resistant premium sarking membrane with a TPU coating forms the second layer for water transportation.

Rainproof/waterproof subroof

The use of the LINITHERM UD cover strips with TPU coating on both sides is necessary for the creation of rainproof/waterproof subroofs. By solvent welding or heat sealing of the cover strip to the sarking membrane a seamless and force-locked connection is produced and by that homogeneous surface, without material change or self-adhesive tape. This eliminates welding with open flames and the associated fire hazard.

The right insulation solution for every roof construction



Insulation solution for new and old buildings



Insulation solution for passive house
U-Value = 0.09 W/(m²K)

LINITHERM PAL 2U Plus PH 21000025

Insulation core	PU rigid foam acc. to EN 13165, fire behavior class E acc. to EN 13501-1, coated with aluminum film on both sides
Facing	Upper side coated with a diffusible, tear-resistant and slip-resistant membrane, with both sided TPU coating, approx. 10 cm overlap lengthwise and transverse, plus integrated factory made sealing band. Alternatively, the joint area can be welded to one another with LINITHERM solvent-welding equipment or hot air.
Edge joints	Tongue & groove pressfit joints on all sides
Overall dimension	2420 × 1180 mm (= calculation measurement)

Thickness mm	Quantity per pallet		λ_D	U-value**
PU	Piece	m²	W/(mK)	[W/(m²K)]
*80	30	85.7	0.022	0.26
100	24	68.5	0.022	0.21
120	20	57.1	0.022	0.18
140	17	48.5	0.022	0.15
160	15	42.8	0.022	0.13
*180	13	37.1	0.022	0.12
*200	12	34.3	0.022	0.11
*240	10	28.6	0.022	0.09

Rainproof/waterproof subroof possible (with additional measures).

Other thicknesses upon request.

1) Roof pitch as specified, and in accordance with the rules of the ZVDH (Central Association of German Roofers).

* Might have longer delivery times.

** U-value, taking the thermal transfer resistance $R_{Sj} = 0.1$ [m²K/W] and $R_{Se} = 0.1$ [m²K/W] acc. to EN ISO 6946 into account.

- ≥ 12° roof pitch**: From 12° roof pitch
- Optimal cold protection**: Optimal cold protection
- Optimal heat protection**: Optimal heat protection
- Moisture resistant**: Moisture resistant
- Thin with maximum insulation**: Thin with maximum insulation
- Easy & pressure resistant**: Easy & pressure resistant
- Odorless & physiologically safe**: Odorless & physiologically safe
- Protection against electric smog**: Protection against electric smog
- Cuts costs, ensures excellent ROI**: Cuts costs, ensures excellent ROI
- Recyclable**: Recyclable
- Positive building biology**: Positive building biology.
- F30B**: Safety when things heat up. In combination with a 19 mm thick tongue and groove timber formwork (as per DIN 68122-1/2), LINITHERM PAL U PLUS also fulfils the requirements on a F30B construction (certification report P-MPA-E04-025).
- 10 YEARS system warranty**: 10 years of system performance in case of using the LINITHERM accessory products in addition to our LINITHERM upon rafter insulation system (see Product overview).

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