



LINZMEIER

Insulate with system

Living healthier starts in the basement

Cellar ceiling insulation achieves more living comfort and healthier room air

Cellar ceiling insulation system

LINITHERM®

PAL KD
PAL KD BioZell®



Low construction height – little height loss



With light-reflection film for bright friendly rooms



Odorless and physiologically free

Homogenous thermal insulation
TCL 022

Installed without thermal bridges

Robust surfaces for any type of use in the basement

Quick and easy to assemble



Meets the QNG requirements for prevention of hazardous substances in insulants. "pure life" is a seal of approval issued by the UGRPI association. certification applies to PU insulation board

www.Linzmeier.de

LINITHERM PAL KD for safe insulation of cellar ceilings and for saving heating costs

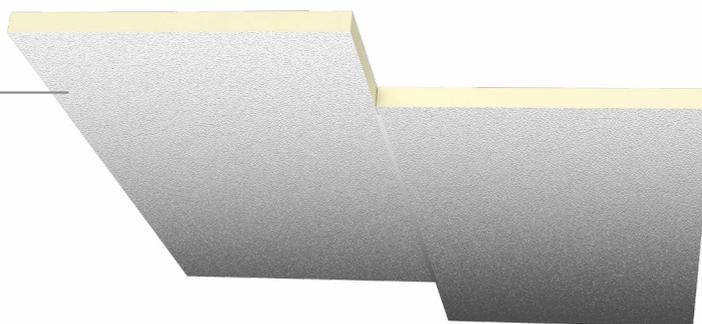


LINITHERM PAL KD prevents cold air from creeping from unheated basement rooms through the ceiling.

Unheated basement rooms increase your heat loss. Since the basement ceiling is not insulated or only a little, the floor surface of the ground floor has a relatively low temperature. What to do? Insulate the basement ceiling from underneath. Usually, however, basement rooms in particular have a low ceiling height so you don't want that to be decreased even more by too much insulation thickness. This is where LINITHERM comes into play, our high performance insulation material – λ_D 0.022 W/(mK).

There are two surfaces to choose from NEW: with ecological surface coating

LINITHERM PAL KD
Thermal insulation panel coated with aluminum film on both sides, round about edgeless cut.



LINITHERM PAL KD BioZell®
Visible side covered with an ecological surface coating on a mineral base, with tongue & groove pressfit joints on all sides.



The new ecological and allergy-friendly cellar ceiling insulation LINITHERM PAL KD BioZell®

LINITHERM PAL KD BioZell® is treated with an ecological surface coating on a mineral base, enables in combination with the PU insulation core healthier living. BioZell® is free of fungicides and biocides and offers no breeding ground for spores, fungus, algae and mould.

Durable and easy to repair

LINITHERM PAL KD BioZell® offers numerous unbeatable advantages:

- Quick and easy installation
- Durable and repairable
- Customizable
- Odorless and physiologically free

Due to high insulation efficiency of PU rigid foam – λ_D 0,022 W/(m²K) and/or λ_B 0,23 W/(m²K) – a high insulation effect is guaranteed by thin boards.

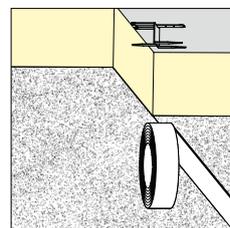


BioZell® repair kit, for covering cutting edges and repairing skips.

The easy way for eliminating thermal bridges between heated and unheated rooms

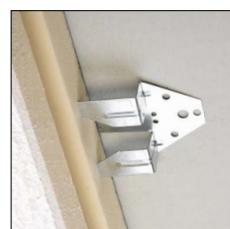
Montage LINITHERM PAL KD

The insulation elements are affixed to the basement ceiling from underneath using two-sided mounting claws. In the process, the claw is pressed into the edge of an already fitted insulation element and anchored to the ceiling. This ensures a good fixing quality no matter the bearing capacity of the existing ceiling surface. The next element is pressed into the still protruding claw. The gaps between the insulation elements can be sealed with LINITHERM butyl rubber tape.



Montage LINITHERM PAL KD BioZell®

The mounting of the elements is done easy and proper, due to the tongue & groove pressfit joints on all sides and the system relevant LINIFIX fixation clamps. Cutting edges and damages due to installation can be repaired by using the BioZell® repair kit.

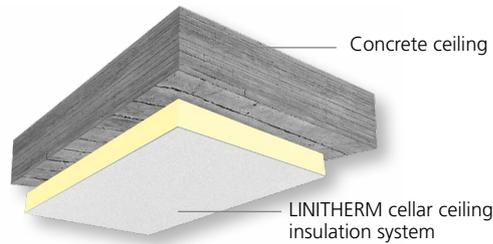


LINITHERM® PAL KD cellar ceiling insulation for maximum energy-efficiency

Maximum insulation performance with the lowest construction heights. A just 80 mm thick, LINITHERM PAL KD elements have a thermal conductivity level of 0.22 and can therefore achieve an U-value of 0.25 W/(m²K) without any further construction. The insulation boards with aluminum cladding on both sides are extremely moisture-resistant, robust and inherently stable.



Insulation of cellar ceiling under concrete ceiling



LINITHERM PAL KD					PH 21101010	
Insulation core	PU rigid foam acc. to EN 13165, coated with aluminum film on both sides silver Thickness 40–60 mm: fire behavior class E acc. to EN 13501-1 Thickness 80–120 mm: fire behavior class C-s2,d0 acc. to EN 13501-1					
Edge joints	Round about edgeless cut					
Overall dimension	1200 × 600 mm (= invoicing measurement)					
Thickness mm PU	Quantity per package Piece	Quantity per package m²	Quantity per pallet Stück	Quantity per pallet m²	λ_D W/(mK)	U-value* [W/(m²K)]
40	12	8.64	120	86.4	0.022	0.46
60	8	5.76	80	57.6	0.022	0.33
80	6	4.32	60	43.2	0.022	0.25
100	5	3.60	50	36.0	0.022	0.21
120	4	2.88	40	28.8	0.022	0.17

LINITHERM PAL KD BioZell®					PH 21101040	
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	Visible side = ecological surface coating on a mineral base, thickness 2 mm					
Edge joints	Tongue & groove pressfit joints on all sides					
Overall dimension	1200 × 600 mm (= invoicing measurement) (coverage with tongue & groove is 2 cm smaller)					
Thickness mm PU	Quantity per package Piece	Quantity per package m²	Quantity per pallet Piece	Quantity per pallet m²	λ_D W/(mK)	U-value* [W/(m²K)]
60	8	5.76	80	57.6	0.022	0.33
80	6	4.32	60	43.2	0.022	0.25
100	5	3.60	50	36.0	0.022	0.21

LINITHERM PAL KD BioZell® cutting board					PH 211010	
Insulation core	PU rigid foam acc. to EN 13165, fire behavior class E acc. to EN 13501-1, coated with aluminium foil on both sides					
Facing	Visible side = ecological fine plaster on a mineral base, thickness approx. 2 mm					
Edge joints	Round about edgeless cut					
Overall dimension	1200 × 600 mm					
Thickness mm PU	Quantity per package Piece	Quantity per package m²	Quantity per pallet Piece	Quantity per pallet m²	λ_D W/(mK)	U-value* [W/(m²K)]
20	5	3.60	50	36.0	0.022	0.83

- Optimal cold protection
- Optimal heat retention
- Moisture resistant
- Thin with maximum insulation
- Easy & pressure resistant
- Odorless & physiologically free
- Recyclable
- Cuts costs, ensures excellent ROI
- Ecological surface coating
- Environmentally friendly
- With light-reflection film
- Fire behavior class C-s2, d0 according to EN13501-1

LINZMEIER

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* U-value calculation takes the thermal resistances $R_{si} = 0.17$ [m²K/W] and $R_{se} = 0.17$ [m²K/W] into account. Building-specific peculiarities for example as per EN ISO 6946 are not taken into account.