



LINZMEIER

Insulate with system

The insulation system under metal

Over-rafter insulation system

LINITHERM®

PAL HW
PAL HWM



No searching for attachment points



Also available with increased sound insulation

LINITHERM, permanently high insulation value λ_D 0.022 W/(mK)

Insulation and fully enclosed substructure in one step

Installed directly on the formwork

For new buildings and old buildings renovation

Under metal roofing



pure life is a seal of approval issued by the UGPU association certification applies to PU insulation board

www.Linzmeier.de

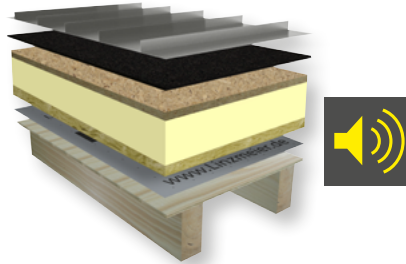
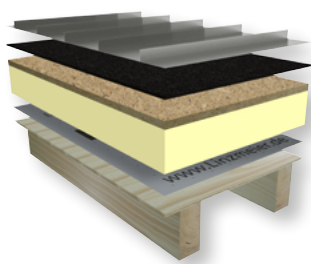
For steep roofs, LINITHERM PAL HW combines thermal insulation, protection against electrosmog and a seamless substructure for the roofing in a single element. Faced with an derived wood panel on one side, the elements are designed for use on old or new boarded roofs.

The polyurethane rigid foam insulation core provides maximum insulation with minimum panel thickness. Thanks to the robust edge joints, quick and efficient installation on the boarding – that has been covered with a suitable vapour barrier – is possible without thermal bridges. The 22 mm thick facing of derived wood is not susceptible to moisture, is hard-wearing and provides a seamless substructure for roofing with metal or shales. No time-consuming searching for the right attachment points is required. The roofing can be mechanically attached at any point. Roof sections are easily cut with standard woodworking tools. Similarly, any fittings can be attached without problems.

By far the best












A suitable separating membrane is fitted over the LINITHERM PAL HW elements. It ensures fast, reliable drainage of condensate between the metal roof and the membrane. By the resulting distance also a reduction of structure-borne noise is achieved.

The right insulation solution for every roof construction



Insulation solution for new and old buildings
Over-rafter insulation LINITHERM PAL HW on wood boarding and visible rafters

Insulation solution for new and old buildings
Over-rafter insulation LINITHERM PAL HWM with sound insulation board on wood boarding and visible rafters

-  optimal cold protection
-  optimal heat protection
-  moisture resistant
-  maximum insulation with minimum panel thickness
-  pressure resistant
-  odorless & physiologically free
-  Recyclable
-  protection against electric smog
-  Cuts costs, ensures excellent ROI
-  Positive building biology
-  **10 YEARS** system warranty

10 years of system performance in case of using the LINITHERM accessory products in addition to our LINITHERM upon rafters insulation system (see Product overview).

LINITHERM PAL HW PH 210010

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	Covered with a 22 mm derived wood panel for attaching the slates or metal roofing					
Edge joints	Tongue & groove pressfit joints on all sides, derived wood panel with T&G and 2 mm expansion joint					
Please note	When building the sub-roof and the entire roof support structure, the specialist rules of the trade as well as the notes and guidelines in the separate Linzmeier leaflet must be observed.					
Overall dimension	2420 x 580 mm (= calculation measurement)					

Thickness mm total	Thickness mm PU	Thickness mm derived wood panel	Quantity per pallet Piece	m ²	λ _D W/(mK)	U-value [W/(m ² K)]
102	80	22	21	29.5	0.022	0.25
122	100	22	17	23.9	0.022	0.21
142	120	22	15	21.1	0.022	0.17
162	140	22	13	18.2	0.022	0.15
182	160	22	11	15.4	0.022	0.13

LINITHERM PAL HWM with soundproofing panel PH 210010

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	Covered with a 22 mm derived wood panel for attaching the slates or metal roofing, lower side with a soundproofing panel, 40 mm					
Edge joints	Tongue & groove pressfit joints on all sides, derived wood panel with T&G and 2 mm expansion joint					
Please note	When building the sub-roof and the entire roof support structure, the specialist rules of the trade as well as the notes and guidelines in the separate Linzmeier leaflet must be observed.					
Overall dimension	2420 x 580 mm (= calculation measurement)					

Thickness mm total	Thickness mm PU	Thickness mm derived wood panel	Thickness mm sound insulation	Quantity per pallet Piece	m ²	λ _D PU	λ _D sound insulation	U-value [W/(m ² K)]
142	80	22	40	15	21.1	0.022	0.039	0.20
162	100	22	40	13	18.2	0.022	0.039	0.17
182	120	22	40	11	15.4	0.022	0.039	0.15
202	140	22	40	10	14.0	0.022	0.039	0.13
222	160	22	40	9	12.6	0.022	0.039	0.12

LINZMEIER

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