LINITHERM®
insulation systems

LINZMEIER
building elements

Over-rafter
insulation system

PAL OSB

Polyurethane
for better insulation

The insulation system under metal

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

Reliable insulation …

Without thermal bridges

Keeps humidity away from the structure

Protection from electrosmog

Pressure resistant

… in perfect professional quality …

Complete with factory-mounted derived wood panel

For installation on boarding

Time-saving and economical installation

Full-surface, uniform thermal insulation

… for saving energy PUR

TCL 023

Keeps out the heat in summer, prevents heat loss in winter

Environmentally friendly building material: High-performance insulation material, PUR/PIR rigid foam, free of fibers

Positive ecobalance

Comprehensive insulation without thermal bridges

Permanently high insulation value TCL 023

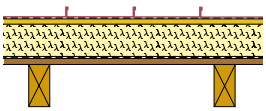
Under metal roofing

Fully enclosed substructure

No searching for attachment points

LINZMEIER **building elements**

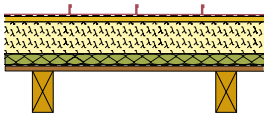
LINITHERM® insulation systems



LINITHERM PAL OSB
on wood boarding

LINITHERM PAL OSB

Insulation core:	PUR/PIR rigid foam acc. to DIN EN 13165, class E, coated with aluminum film on both sides
Outer facing:	derived wood panel, 22 mm thick, coated, for mounting the metal roofing
Edge joints:	Tongue & groove pressfit joints on all sides, plus OSB panel with tongue & groove
Please note:	When constructing the sub-roof and the entire roof structure, the rules, instructions and guidelines in the separate Linzmeier data sheet must be observed.
EN description:	Composite board made of: PUR-EN 13165-T2-DS(TH)9-CS(10\Y)100 plus 22 mm thick derived wood panel
Overall dimensions:	2420 x 580 mm (= calculation measurement)

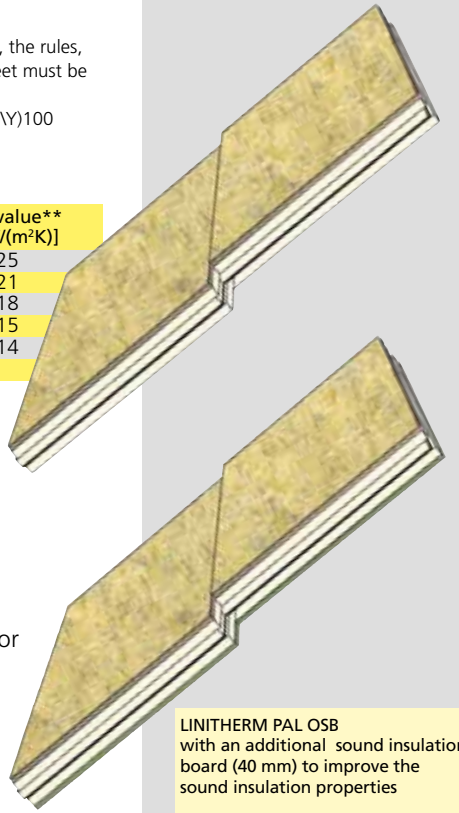


LINITHERM PAL OSB
with sound insulation board (40 mm) to improve the sound insulation properties
on wood boarding

Thickness mm total	Thickness mm PUR/PIR	Thickness mm OSB board	Palette contents Qty.	Palette contents m²	TCL PUR/PIR	U-value** [W/(m²K)]
102	80	22	21	29,5	023	0.25
122	100	22	17	23,9	023	0.21
142	120	22	15	21,1	023	0.18
162	140	22	13	18,2	023	0.15
182	160	22	11	15,4	023	0.14

Other thicknesses on request.

* Thermal conductivity value U takes the thermal resistance (Rsi = 0.13 m2K/W and Rse = 0.04 m2K/W) plus 19 mm wooden boarding into account. Object-specific features according to DIN EN ISO 6946 are not taken into account.



LINITHERM PAL OSB
with an additional sound insulation board (40 mm) to improve the sound insulation properties

LINITHERM PAL OSB – thermal insulation and seamless sub-structure in one working step

In recent years, metal roofs have become increasingly popular with architects, as they permit appealing roof shapes and therefore unusual possibilities of use. Also here, tougher demands for thermal insulation and heat shielding have led to new and improved constructional solutions: For steep roofs, LINITHERM PAL OSB combines thermal insulation, protection against electrosmog and a seamless substructure for the roofing in a single element. Faced with an OSB panel on one side, the elements are designed for use on old or new boarded roofs.

Handling advantages for the professional

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 fiber cement. 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 OSB elements. It ensures fast, reliable drainage of condensate between the metal roof and the membrane. What's more, the additional space reduces structure-borne noise.

LINITHERM PAL OSB under the titanium-zinc roof of the historic stables in Schwerin

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Subject to changes