



Lean complete External Wall Insulation System for core insulation and rear ventilated facade constructions

LINITHERM PAL W - insulation system of low flammability for exterior walls with maximum insulation performance and minimal panel thickness

Reliable complete External Wall Insulation System...

Excellent insulation values with a minimal panel thickness

Insulates extensively and continuously

Environmentally friendly building material

...quickly installed...

Easy handling thanks to manageable dimensions and a low weight

Can be installed with no thermal bridges

Pressure resistant and inherently stable

...for new and old buildings

Not thicker but better insulation



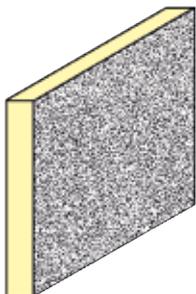
Lean wall construction (TCL 023)

Of low flammability

Fire behaviour class C-s2, d0 according to DIN EN 13501-1

Integrated vapour barrier

LINITHERM PAL W



Insulation core: PUR/PIR rigid foam in accordance with DIN EN 13165, fire behaviour class C-s2, d0 according to DIN EN 13501-1 according to approval Z-23.15-1436 both sides with aluminium foil

Edge connection: round about edgeless cut or with graded notches

Identification according to EN: PUR - EN 13165 - T2 - DS(TH)9 -CS(10/Y)100 - TR40

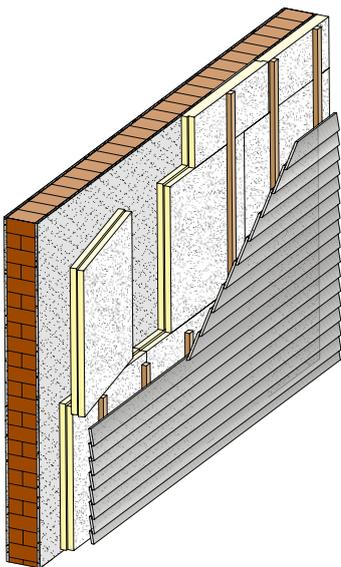
Outside measurement: 1200 x 600 mm (= calculation measurement) (covering measurement with graded notches 2 cm smaller)

Thickness mm	Package contents Qty.	Package contents m ²	Pallet contents Qty.	Pallet contents m ²	TCL PUR/PIR	U-value [W/(m ² K)] Element
80	6	4.32	60	43.2	023	0.27
100	5	3.60	50	36.0	023	0.22
120	4	2.88	40	28.8	023	0.19
140	3	2.16	30	21.6	023	0.16
160	3	2.16	30	21.6	023	0.14

other thicknesses on request / Delivery of complete packages.

40% and more energy saving potential through efficient exterior wall insulation

Curtain walls are a traditional part of construction when it comes to exterior walls. To protect them from the weather buildings are often clad with wood, slate, flagstones, fibre cement or metal.



The insulation elements LINITHERM PAL W are screwed together with the sub-structure onto the facade. This creates a homogenous layer of insulation. The aluminium cladding on both sides acts as a vapour barrier and hinders moisture penetration. The insulation value is maintained.

A house can lose 40% and more warmth due to uninsulated exterior walls. With LINITHERM PAL W you get an excellent external wall insulation system and a lean wall construction. The highly efficient insulation material PUR/PIR rigid foam is of low flammability, the fire behaviour equates to class C-s2, d0 according to DIN EN 13501-1. **Note on fire behaviour: Requirements of the regional building law as well as special approvals are to be taken into consideration!**

The elements achieve a thermal conductivity level (TCL) of 023. The best insulation values can be achieved even with a low panel thickness. An insulation thickness of just 80 mm can achieve a U-value of 0.24 W/(m²K) for the entire structure. The little money spent on the insulation element makes it worth when you see the energy saving potential: 120 mm thick PUR/PIR elements can achieve a U-value of 0.16 W/(m²K) for the entire structure and guarantee a long-term economical solution.

LINITHERM PAL W is ideal as core insulation in clam-shell brickwork

So as to implement a wall construction in clam-shell brickwork leanly and, at the connections, without thermal bridges, a highly efficient thermal insulation is very important. As a core insulation, LINITHERM PAL W also provides an optimal external wall insulation system which fulfils the highest requirements. The clam-shell brickwork can also be implemented as a refurbishment measure.

An existing plaster facade can be implemented as clam-shell, continuously thermally insulated brickwork, by installing a brick wall.

Advantages of economic thermal insulation measures

- Low energy costs and therefore more independency from oil, gas and electrical bills
- More comfortable thanks to higher surface temperatures on the exterior walls in the winter
- No infiltration or draught phenomena on cooled walls
- Heat protection in the summer
- Value increase if letting or selling

* small title photo: Office building with curtain facade - planning group MDP, Regensburger Str. 24, 92224 Amberg, Germany

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