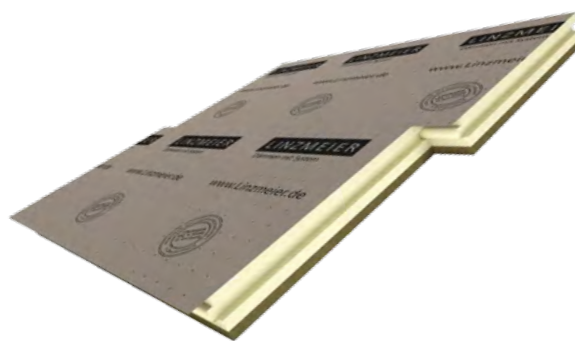


Technical data

LINITHERM PAL 2UM

Over-rafter Insulation system



Property	Formula symbol	Unit	Parameter and measured value	Standard
Material	-	-	Polyurethane rigid foam, coated with aluminium film on both sides	EN 13165
Application type	-	-	DAD	DIN 4108-10
Gross density	ρ	kg/m ³	≥ approx. 33	-
Fire behaviour	-	-	Class E or normally inflammable	EN 13501-1
Thermal conductivity (D)	λ_B	W/(mK)	0.023	DIN 4108-4
Thermal conductivity (EU)	λ_D	W/(mK)	0.022	EN 13165
Compressive stress	σ_{D10}	N/mm ² kPa	≥ 0.12 (at 10 % compression) ≥ 120	EN 826
Specific thermal capacity	c	J/(kg·K)	1400	EN 12524
Water vapour diffusion equivalent air layer thickness	s_d	m	> 1500 (see examination report A3-04/03, FIW München)	EN 12524
Water absorption of polyurethane rigid foam after 28 days of sub-water storage	-	Vol-%	1.0 to 2.5	EN 12087
Resistance of polyurethane rigid foam	-	-	Chemically resistant to petrol, diesel mineral oil, micro-organisms, mould, rot-proof	-
Thickness incl. 40 mm sound insulation panel	-	mm	120, 140, 160, 180, 200	-
Edge connection	-	-	Tongue & groove pressfit joints on all sides	-
Overlap	-	mm	2420 x 1180 (= calculation measurement)	-

Our brochures and information material are meant to provide advice to the best of our knowledge. Subject to technical modifications.



Declaration of Performance
001-LICPR-200801
www.linzmeier.de/downloads



DIN EN 13165
Inspection: 0751 FIW München



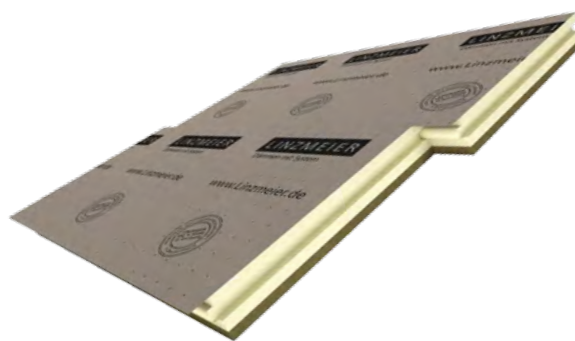
pure life is a seal of approval issued by the UGPU association

* „pure life“-certification applies to PU insulation board

Technical data

Sound insulation panel

from LINITHERM PAL 2UM



Property	Formula symbol	Unit	Parameter and measured value	Standard
Material	-	-	Mineral wool insulation material	-
Designation	-	-	MW EN 13162 T5-DS(T+)-CS(10)60-WS	EN 13162
Gross density	ρ	kg/m ³	Approx. 135	-
Fire behaviour	-	-	Class A1	EN 13501-1
Thermal conductivity	λ_D	W/(mK)	0.039	EN 13162
Compressive stress	σ_{D10}	N/mm ² kPa	≥ 0.06 (at 10 % compression) 60	EN 826
Water vapour diffusion resistance factor	μ	-	1	EN 12086
Thickness of the sound insulation panel	d	mm	40	-

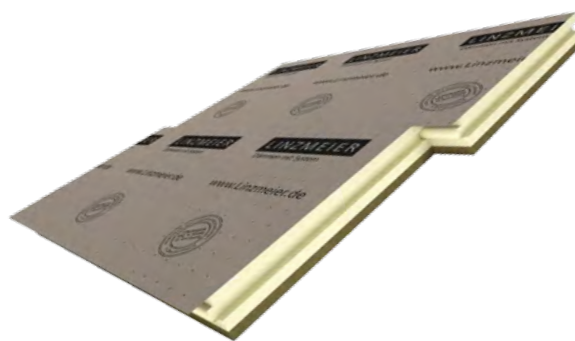
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Note: The details stated above apply under normal conditions of use of the products. They are based on our experience to date and do not represent an assurance of properties. Existing laws/directives/provisions are to be followed by the user at his own responsibility.

Technical data

Sarking membrane

from LINITHERM PAL 2UM



Property	Formula symbol	Unit	Parameter and measured value	Standard
Material	-	-	3-layer PP fleece-foil combination	-
Colour top side	-	-	Grey with printed grid pattern	-
Protrusion to insulation panel	-	-	Transverse and lengthwise approx. 8 cm plus integrated factory-made sealingband	-
Classification acc. to ZVDH (Central Organisation of the German Roofing Trade)	-	-	UDB-A from a roof pitch of 20°	-
Watertightness test Technical University of Berlin	-	-	Passed	-
Water vapour diffusion equivalent air layer thickness	s_d	m	Approx. 0.02	EN ISO 12572
Maximum tensile strength	-	N/5 cm	Longitudinal: 360 Transverse: 270	EN 12311-1
Maximum tensile strength and deformation	-	%	Longitudinal: 70 Transverse: 50	EN 12311-1
Tear resistance (nail shaft)	-	N	Longitudinal: 220 Transverse: 290	EN 12310-1
Operating temperature range	-	°C	- 40 / +100	-
Temporary roof covering	-	Week	4	-
Fire behaviour	-	-	Class E or normally inflammable	EN 13501-1
Web width	-	m	1.26	-
Weight	-	g/m ²	Approx. 165	-
Resistance against water penetration	-	-	W1	EN 1928

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