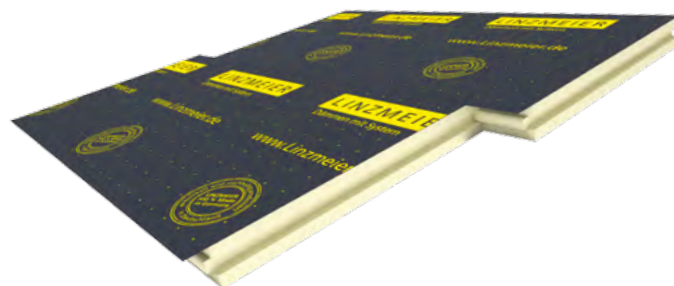


## Technical data

### LINITHERM PAL 2U Plus

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	$\rho$	kg/m <sup>3</sup>	≥ approx. 33	-
Fire behaviour	-	-	Class E or normally inflammable	EN 13501-1
Thermal conductivity (D)	$\lambda_B$	W/(mK)	0.023	DIN 4108-4
Thermal conductivity (EU)	$\lambda_D$	W/(mK)	0.022	EN 13165
Compressive stress	$\sigma_{D10}$	N/mm <sup>2</sup> 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 grades	-	mm	80, 100, 120, 140, 160, 180, 200, 240	-
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  
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DIN EN 13165  
Inspection: 0751 FIW München

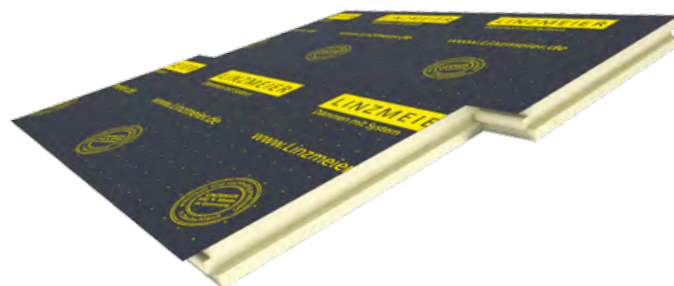


pure life is a seal of approval issued by the USPU association

## Technical data

# Sarking membrane

from LINITHERM PAL 2U Plus



Property	Formula symbol	Unit	Parameter and measured value	Standard
Material	-	-	PES fleece with TPU coating	-
Colour, top side	-	-	Grey with printed grid pattern	-
Protrusion to insulation panel	-	-	Transverse and lengthwise approx. 10 cm plus integrated factory-made sealing band	-
Classification acc. to ZVDH (Central Organisation of the German Roofing Trade)	-	-	UDB-A from a roof pitch of 12°	-
Watertightness test Technical University of Berlin	-	-	Passed	-
Water vapour diffusion equivalent air layer thickness	$s_d$	m	Approx. 0.15	EN ISO 12572
Maximum tensile strength	-	N/5 cm	Longitudinal: 300 Transverse: 350	EN 12311-1
Maximum tensile strength and deformation	-	%	Longitudinal: 50 +/- 10 Transverse: 50 +/- 10	EN 12311-1
Tear resistance (nail shaft)	-	N	Longitudinal: 225 Transverse: 225	EN 12310-1
Operating temperature range	-	°C	- 40 / + 80	-
UV stability	-	Month	Max. 3	-
Temporary roof covering	-	Week	Max. 4	-
Fire behaviour	-	-	Class E or normally inflammable	EN 13501-1
Web width	-	m	1.26	-
Weight	-	g/m <sup>2</sup>	≥ 330	-
Resistance against water penetration	-	-	W1	EN 1928

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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.