



# LINITHERM PAL

## Ideal as flat roof insulation, under screed, insulating attic floors, terraces etc.

LINITHERM Universal insulation boards are ideally suited for insulating flat roofs (thermal surface protection of waterproofing is required typically), under screed and floor heating, insulation of attic floors, in radiator niches, ...

The PAL universal insulation board is pressure-resistant and coated with protective aluminium film on both sides. The boards achieve excellent insulation values (Thermal Conductivity Level TCL 023).

### LINITHERM PAL, technical data

Property	Symbol	Unit	Parameters and measurements	Standard
Material	-	-	PUR/PIR rigid foam with aluminium film on both sides	-
Application Type	-	-	PUR 024 DAA dh, DEO dh	DIN 4108-10
Description	-	-	PUR-EN 13165-T2-DS(TH)9-CS(10\Y)100-TR40	DIN EN 13165
Density	$\rho$	kg/m <sup>3</sup>	≥ ca. 33	-
Fire Behaviour	-	-	normal flammability, material class E or B2	DIN EN 13501-1 DIN 4102
Thermal Conductivity Value (D)	$\lambda_B$	W/(mK)	0,024	DIN 4108-4
Thermal Conductivity Value (EU)	$\lambda_D$	W/(mK)	0,023	EN 13165
Usable in Temperature Range	-	°C	-30 to +90	-
Compression Strength	$\sigma_{D10}$	N/mm <sup>2</sup>	≥ 0,10 (at 10% Compression)	EN 826
Max. continuous Compression Load	$\sigma_{D2}$	N/mm <sup>2</sup>	≥ 0,02 (at 2% Compression)	-
Thermal Expansion Coefficient	$\alpha$	K <sup>-1</sup>	3 to 7 x 10 <sup>-5</sup>	adaption to EN 1604
Specific Heat Capacity	c	J/(kg·K)	1400	EN 12524
Water vapor Diffusion Equivalent Air Layer Thickness	$s_d$	m	aluminium film in area practically vapour-tight, $s_d > 1500$ m	EN 12524
Water Absorption after 28-day underwater Storage	-	Vol-%	1,0 to 2,5	EN 12087
Resistance of PIR Foam	-	-	chemically resistant to gasoline, diesel, mineral oil, microorganisms, midew, rotproof	-
Thickness	-	mm	20, 30, 40, 50, 60, 70, 80, 100, 120, 140, 150, 160, 180, 200, 220, 240	-
Edge Joints	-	-	thickness 20-40 mm, 150 and 200 mm: round about edgless cut thickness 50-100 mm: round about edgless cut or graded notches thickness 120-140 mm and 160-240 mm: round about graded notches	-
Overall Dimension	-	mm	1200 x 600 (= calculation measurement), covered measurement with graded notches 20 mm smaller	-
Approval Number	-	-	Z-23.15-1436	-

Other thickness on request.

Our brochure and information to represent our knowledge. Technical changes reserved.

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