

Technical data

LINITHERM PAL FD

Flat roof insulation system



Property	Formula symbol	Unit	Parameter and measured value	Standard
Material	-	-	Polyurethane rigid foam, coated with aluminium film on both sides, low-glare on one side	EN 13165
Application type	-	-	DAA dh	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
Temperature resistance	-	°C	-30 to +90	-
Compressive stress	σ_{D10}	N/mm ² kPa	≥ 0.12 (at 10 % compression) ≥ 120	EN 826
Max. permitted permanent compressive stress	σ_{D2}	N/mm ² kPa	≥ 0.02 (at 2 % compression) ≥ 20	-
Tensile strength perpendicular to the panel surface	σ_{mt}	N/mm ² kPa	≥ 0.05 ≥ 50	EN 1607
Thermal expansion coefficient	α	K ⁻¹	3 to 7 x 10 ⁻⁵	Based on EN 1604
Specific thermal capacity	c	J/(kg·K)	1400	EN 12524
Water vapour diffusion equivalent air layer thickness	s_d	m	Aluminium film area practically vapour-proof $s_d > 1500$	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	-
Edge connection	-	-	Round about rebated joint	-
Calculation measurement	-	mm	2440 x 1200 (coverage width 2 cm smaller)	-

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



DIN EN 13165
Inspection: 0751 FIW München



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