

## Technical data

# LINITHERM PGV Gradient

Flat roof insulation system



Property	Formula symbol	Unit	Parameter and measured value	Standard
Material	–	–	Polyurethane rigid foam, coated with mineral fleece on both sides	EN 13165
Application type	–	–	DAA dh	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)	0.029 for panel thickness < 80 mm 0.027 for panel thickness ≥ 80 mm	DIN 4108-4
Thermal conductivity (EU)	$\lambda_D$	W/(mK)	0.028 for panel thickness < 80 mm 0.026 for panel thickness ≥ 80 mm	EN 13165
Temperature resistance	–	°C	– 30 to + 90	–
Compressive stress	$\sigma_{D10}$	N/mm <sup>2</sup> kPa	≥ 0.12 (at 10 % compression) ≥ 120	EN 826
Max. permitted permanent compressive stress	$\sigma_{D2}$	N/mm <sup>2</sup> kPa	≥ 0.02 (at 2 % compression) ≥ 20	–
Tensile strength perpendicular to the panel surface	$\sigma_{mt}$	N/mm <sup>2</sup> kPa	≥ 0.05 ≥ 50	EN 1607
Thermal expansion coefficient	$\alpha$	K <sup>-1</sup>	3 to 7 × 10 <sup>-5</sup>	Based on EN 1604
Specific thermal capacity	c	J/(kg·K)	1400	EN 12524
Water vapour diffusion resistance factor	$\mu$	–	40/200	DIN 4108-4
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	5/30, 30/55, 55/80, 80/105, 105/130	–
Edge connection	–	–	Round about edgeless cut	–
Overlap	–	mm	1200 × 1200 (= 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  
004-LICPR-200801  
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DIN EN 13165  
Inspection: 0751 FIW München



Meets the QMG requirements for prevention of hazardous substances in insulants. "pure life" is a seal of approval issued by the IGPU association.