

## Technical data

### LINITHERM PAL HWM

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	–
Edge connection	–	–	Tongue & groove pressfit joints on all sides, derived wood panel with T&G and 2 mm expansion joint	–
Overlap	–	mm	2420 × 580 (= 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 UGPU association

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

## Technical data

# Derived wood panel

from LINITHERM PAL HWM



Property	Formula symbol	Unit	Parameter and measured value	Standard
Material	–	–	Derived wood panel P5	–
Surface finish	–	–	Heat-coated contiprotect surface	–
Gross density	$\rho$	kg/m <sup>3</sup>	650–670	EN 323
Fire behavior	–	–	Class D-s2, d0 or normally inflammable	EN 13501-1
Thermal conductivity	$\lambda_B$	W/(mK)	0.13	EN 13986
Emission class	–	ppm	< 0,03	EN 717-1
Gluing	–	–	PMDI	–
Thickness swelling	–	%	≤ 10	EN 317
Water vapour diffusion resistance factor	$\mu$	–	100	–
Nominal thickness of the plywood panel	d	mm	22	–
Usage class	–	–	1 + 2	DIN 1052

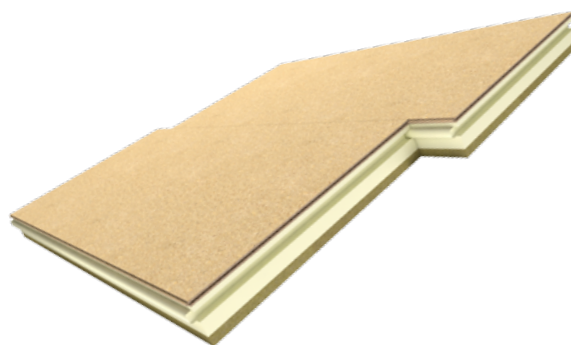
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## Technical data

# Sound insulation panel

from LINITHERM PAL HWM



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	$\rho$	kg/m <sup>3</sup>	Approx. 135	–
Fire behaviour	–	–	Class A1	EN 13501-1
Thermal conductivity	$\lambda_D$	W/(mK)	0.039	EN 13162
Compressive stress	$\sigma_{D10}$	N/mm <sup>2</sup> kPa	≥ 0.06 (at 10 % compression) 60	EN 826
Water vapour diffusion resistance factor	$\mu$	–	1	EN 12086
Thickness of the sound insulation panel	d	mm	40	–

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