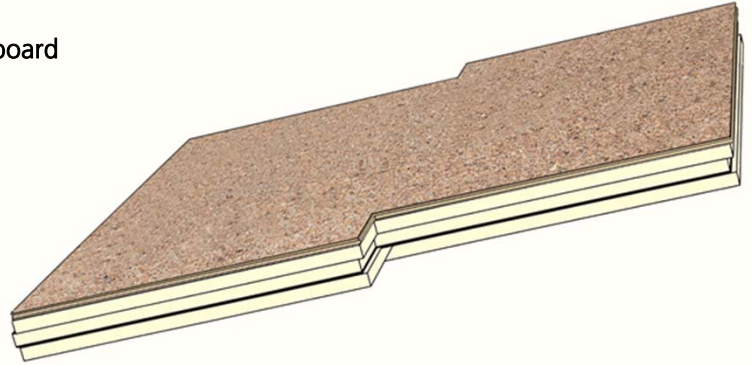


# The insulation system under metal or shale

LINITHERM PAL HW,  
technical data of insulation board



Characteristic	Symbol	unit	Parameter and measured value	Norm
Material	-	-	Polyurethan-Rigid Foam (PU), faced with Aluminium Foil on both sides	-
Identification	-	-	PU-EN 13165-T2-DS (70,90)3-DS(-20,-)2-CS(10W)120	DIN EN 13165
bulk density	$\rho$	kg/m <sup>3</sup>	≥ ca. 33	-
Fire behaviour	-	-	Class E	DIN EN 13501-1
Thermal Conductivity	$\lambda_D$	W/(mK)	0,022	EN 13165
Compression stress	$\sigma_{D10}$	N/mm <sup>2</sup>	≥ 0,12 (at 10% compression)	EN 826
Specific Heat Capacity	c	J/(kg·K)	1400	EN 12524
Water Vapor Diffusion Resistance	$s_d$	m	Aluminium Foil in plain practically vapor tight $s_d > 800m$	EN 12524
water absorption PUR/PIR after 28 days under water storage	-	Vol-%	1,0 to 2,5	EN 12087
Resistance of PUR/PIR	-	-	chemical resitant against benzin, diesel, mineral oil, micro organism, mildew, rotting	-
Thickness incl. 22 mm HW-Board	-	mm	102, 122, 142, 162, 182	-
Edge Connection	-	-	round about tongue & groove pressfit joint	-
Overall Dimensions (= calculation measurement)	-	mm	2420 * 580	-

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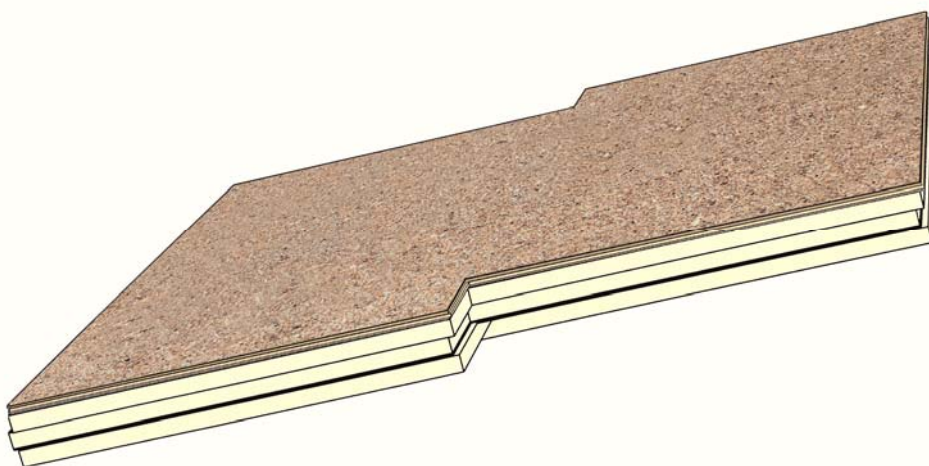
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# Technical Data of the HW-Board from LINITHERM PAL HW

Characteristic	Symbol	unit	Parameter and measured value	Norm
Material	-	-	P5 Particle Board	-
Surface Finish	-	-	Contiprotect Surface Finish	-
Bulk Density	$\rho$	kg/m <sup>3</sup>	650-670	EN 323
Fire Behavior	-	-	D-s2, d0	DIN EN 13501-1
Thermal Conductivity	$\lambda_B$	W/(mK)	0,13	DIN EN 13986
Emission Class	-	ppm	< 0,03	EN 717-1
Application Class	-	-	1 + 2	DIN 1052
Thickness Swelling	-	%	≤ 101	EN 317
Water Vapor Diffusion Resistance	$\mu$	-	100	DIN EN 13162
Nominal Thickness of Derived Timber Board	d	mm	22	-

Note: The above figures apply for the intended use of these products. They are based on the present state of our knowledge and does not constitute a guarantee of properties. Existing legislation / guidelines / rules are to be observed by the user on own responsibility.



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