

# Declaration of Performance

No.: 002-LICPR-161015

1.	Unique identification code of the product type	LINITHERM PAL 022 / dh / CS120 / TR40 / E
2.	Type, batch or serial number for the identification of the construction product as required under Article 11 paragraph 4 of EU BauPVO	See label on product
3.	Intended use	Thermal insulation for buildings
4.	Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11 paragraph 5	LINITHERM Dämmsysteme Linzmeier Bauelemente GmbH Industriestr. 21 88499 Riedlingen, Germany T +49 (0)7371 1806-0 F +49 (0)7371 1806-96 Info@Linzmeier.de www.Linzmeier.de
5.	Where applicable, name and address of the authorised representative whose mandate covers the tasks specified in Article 12 paragraph 2.	--
6.	System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V of EU BauPVO	System 3
7.	In the case of a Declaration of Performance about a construction product defined in a harmonised standard.	The notified certification body FIW Munich No. 0751 has performed the product type determination, initial inspection of the production plant and the plant's production control as well as ongoing monitoring, assessment and evaluation of the plant's production control and issued the certificate of constancy of performance for fire behaviour. The notified test laboratory FIW Munich No. 0751 issued the test reports for further significant and explanatory properties.

8. Declared performance

Essential characteristics		Performance	Harmonised technical specification																																				
Thermal resistance	Thermal resistance	Table 1: <table border="1"> <thead> <tr> <th>Nominal thickness <math>d_N</math>(mm)</th> <th><math>R_D</math> (m<sup>2</sup>K/W)</th> <th>Nominal thickness <math>d_N</math>(mm)</th> <th><math>R_D</math> (m<sup>2</sup>K/W)</th> </tr> </thead> <tbody> <tr><td>10</td><td>0,45</td><td>100</td><td>4,55</td></tr> <tr><td>20</td><td>0,90</td><td>120</td><td>5,45</td></tr> <tr><td>30</td><td>1,35</td><td>140</td><td>6,35</td></tr> <tr><td>40</td><td>1,80</td><td>160</td><td>7,25</td></tr> <tr><td>50</td><td>2,25</td><td>180</td><td>8,15</td></tr> <tr><td>60</td><td>2,70</td><td>200</td><td>9,05</td></tr> <tr><td>70</td><td>3,15</td><td>220</td><td>10,00</td></tr> <tr><td>80</td><td>3,60</td><td>240</td><td>10,90</td></tr> </tbody> </table> for all thicknesses: Calculated using formula: $R_D = \text{nominal thickness} / \lambda_D$ (round down to 0.05m <sup>2</sup> K/W)	Nominal thickness $d_N$ (mm)	$R_D$ (m <sup>2</sup> K/W)	Nominal thickness $d_N$ (mm)	$R_D$ (m <sup>2</sup> K/W)	10	0,45	100	4,55	20	0,90	120	5,45	30	1,35	140	6,35	40	1,80	160	7,25	50	2,25	180	8,15	60	2,70	200	9,05	70	3,15	220	10,00	80	3,60	240	10,90	EN 13165: 2012+A2:2016
	Nominal thickness $d_N$ (mm)	$R_D$ (m <sup>2</sup> K/W)	Nominal thickness $d_N$ (mm)	$R_D$ (m <sup>2</sup> K/W)																																			
	10	0,45	100	4,55																																			
	20	0,90	120	5,45																																			
30	1,35	140	6,35																																				
40	1,80	160	7,25																																				
50	2,25	180	8,15																																				
60	2,70	200	9,05																																				
70	3,15	220	10,00																																				
80	3,60	240	10,90																																				
Thermal conductivity	$\lambda_D = 0.022\text{W/m}^2\text{K}$																																						
Thickness	$d_N = 10\text{--}240\text{mm}$ , T2																																						
Reaction to fire	E	EN 13501-1																																					
Stability of fire behaviour under the influence of heat, weather, ageing / erosion	Stability of fire behaviour of the marketed product	Products made from rigid polyurethane foam do not change their fire behaviour.	EN 13165: 2012+A2:2016																																				
Stability of thermal resistance under the influence of heat, weather, ageing / erosion	Thermal resistance and thermal conductivity	$R_D$ see Table 1 $d_N = 10\text{--}240\text{mm}$ : $\lambda_D = 0.022\text{W/m}^2\text{K}$																																					
	Stability properties	NPD																																					
	Dimensional stability	DS(70,90)3 DS (-20,-)2																																					
	Dimensional stability under defined pressure and temperature conditions	NPD																																					
	Determination of values for thermal resistance thermal conductivity after ageing	$d_N = 10\text{--}240\text{mm}$ : $\lambda_D = 0.022\text{W/m}^2\text{K}$																																					
Compressive strength	Compressive stress or compressive strength	CS(10\Y)120																																					
(Bending) tensile strength	Tensile strength perpendicular to the panel surface	TR40																																					
Stability of compressive strength under the influence of ageing / erosion	Creep behaviour under compressive stress	NPD																																					
Hydraulic permeability	Short-term water absorption Long-term water absorption	NPD																																					
	Planarity after humidifying one side	NPD																																					
Sound absorption level	Sound absorption	NPD																																					
Release of hazardous substances, emission into building interior	Release of hazardous substances	NPD																																					
Smoulder behaviour	Smoulder behaviour	NPD																																					

NPD: No performance determined

## 9. Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

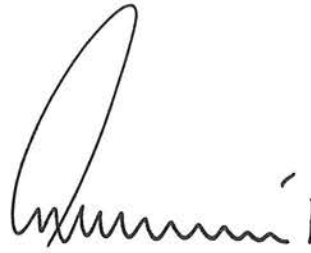
Signed for and on behalf of the manufacturer by:

.....  
Dipl. Ing. Andreas Linzmeier, Managing Director

(name and function)

.....  
Riedlingen, 15/10/2016

(place and date of issue)



.....  
(signature)