

Declaration of Performance

DoP-Nr.: 4015

1.	Unique identification code of the product-type	BauderPIR λ 025-026-027/CS120/E/TR80
2.	Intended use/es	Thermal insulation for buildings
3.	Manufacturer	Paul Bauder GmbH & Co. KG, Korntaler Landstrasse 63, 70499 Stuttgart, Germany
4.	System/s of AVCP	AVCP-System 3
5.	Harmonised standard Notified body	EN 13165:2012+A1:2015 FIW München, 0751

6. Declared performance

Essential characteristics		Performance	Harmonized technical specification																																
Thermal resistance	Thermal resistance Thermal conductivity Thickness	Table 1: <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Nominal thickness d_N (mm)</th> <th>R_D (m²K/W)</th> <th>Nominal thickness d_N (mm)</th> <th>R_D (m²K/W)</th> </tr> </thead> <tbody> <tr><td>20</td><td>0,70</td><td>120</td><td>4,80</td></tr> <tr><td>30</td><td>1,10</td><td>140</td><td>5,60</td></tr> <tr><td>40</td><td>1,45</td><td>160</td><td>6,40</td></tr> <tr><td>50</td><td>1,85</td><td>180</td><td>7,20</td></tr> <tr><td>60</td><td>2,20</td><td>200</td><td>8,00</td></tr> <tr><td>80</td><td>3,05</td><td>220</td><td>8,80</td></tr> <tr><td>100</td><td>3,80</td><td>240</td><td>9,60</td></tr> </tbody> </table> <p>For other thicknesses: calculation with: $R_D = \text{nominal thickness} / \lambda_D$ (rounded downwards to nearest 0,05 m²K/W)</p> <p>$d_N = 20 - 79$ mm: $\lambda_D = 0,027$ W/m²K $d_N = 80 - 119$ mm: $\lambda_D = 0,026$ W/m²K $d_N = 120 - 240$ mm: $\lambda_D = 0,025$ W/m²K</p> <p>$d_N = 20 - 240$ mm</p>	Nominal thickness d_N (mm)	R_D (m ² K/W)	Nominal thickness d_N (mm)	R_D (m ² K/W)	20	0,70	120	4,80	30	1,10	140	5,60	40	1,45	160	6,40	50	1,85	180	7,20	60	2,20	200	8,00	80	3,05	220	8,80	100	3,80	240	9,60	EN 13165:2012+A1:2015
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Reaction to fire		E	EN 13501-1																																
Durability of reaction to fire against heat, weathering, ageing/degradation		The fire performance of PU does not deteriorate with time.																																	
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance Thermal conductivity Durability characteristics Dimensional stability Deformation under specified compressive load and temperature conditions Determination of the aged value of thermal resistance and thermal conductivity	R_D see Table 1 $d_N = 20 - 79$ mm: $\lambda_D = 0,027$ W/m ² K $d_N = 80 - 119$ mm: $\lambda_D = 0,026$ W/m ² K $d_N = 120 - 240$ mm: $\lambda_D = 0,025$ W/m ² K NPD DS(70,90)3 DS(-20,-)2 NPD $d_N = 20 - 79$ mm: $\lambda_D = 0,027$ W/m ² K $d_N = 80 - 119$ mm: $\lambda_D = 0,026$ W/m ² K $d_N = 120 - 240$ mm: $\lambda_D = 0,025$ W/m ² K	EN 13165:2012+A1:2015																																
Compressive strength	Compressive stress	CS(10Y)120																																	
Tensile/flexural strength	Tensile strength perpendicular to faces	TR80																																	
Durability of compressive strength against ageing/degradation		NPD																																	
Water permeability	Short term water absorption	NPD																																	
	Flatness after one sided wetting	NPD																																	

Water vapour permeability	NPD	
Acoustic absorption index	NPD	
Release of dangerous substances to the indoor environment	NPD	
Continuous Glowing combustion	NPD	

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/211, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Gerhard Bauder
Managing Director
Stuttgart, 27.08.2015