

# Declaration of Performance

## DoP-Nr.: 4006

1.	Unique identification code of the product-type	BauderPIR $\lambda$ 022/CS120/E/TR40/DLT/WSP
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	Table 1: <table border="1" style="margin-left: 20px;"> <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>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>80</td><td>3,60</td><td>220</td><td>10,00</td></tr> <tr><td>100</td><td>4,50</td><td>240</td><td>10,90</td></tr> </tbody> </table> <p>For other thicknesses: calculation with: <math>R_D = \text{nominal thickness} / \lambda_D</math> (rounded downwards to nearest 0,05 m<sup>2</sup>K/W)</p> <p>Thermal conductivity: <math>\lambda_D = 20 - 240 \text{ mm}: \lambda_D = 0,022 \text{ W/m}^*K</math></p> <p>Thickness: <math>d_N = 20 - 240 \text{ mm}</math></p>	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)	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	80	3,60	220	10,00	100	4,50	240	10,90	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	$R_D$ see Table 1	EN 13165:2012+A1:2015																																
	Thermal conductivity	$d_N = 20 - 240 \text{ mm}: \lambda_D = 0,022 \text{ W/m}^*K$																																	
	Durability characteristics	NPD																																	
	Dimensional stability	DS(70,90)3 DS(-20,-)2																																	
	Deformation under specified compressive load and temperature conditions	DLT(2)5																																	
	Determination of the aged value of thermal resistance and thermal conductivity	$d_N = 20 - 240 \text{ mm}: \lambda_D = 0,022 \text{ W/m}^*K$																																	
Compressive strength	Compressive stress	CS(10Y)120																																	
Tensile/flexural strength	Tensile strength perpendicular to faces	TR40																																	
Durability of compressive strength against ageing/degradation		NPD																																	
Water permeability	Short term water absorption	WS(P)0,10																																	
	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	
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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