

Declaration of Performance

BauderECO F

DoP-No.: ECO F



1.	Unique identification code of the product-type	ECO F-01
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 assessment and verification of constancy of performance of the construction product	AVCP-System 3
5.	Harmonised standard Notified body	EN13165:2012+A2:2016 FIW München, 0751

6. Declared performance

Essential characteristics		Performance EN13165:2012+A2:2016																		
Thermal resistance	Thermal resistance	Table 1: <table border="1"> <thead> <tr> <th>Nominal thickness dN (mm)</th> <th>RD (m²K/W)</th> </tr> </thead> <tbody> <tr> <td>dN (mm)</td> <td></td> </tr> <tr> <td>60 mm</td> <td>2.20</td> </tr> <tr> <td>80 mm</td> <td>3.30</td> </tr> <tr> <td>100 mm</td> <td>4.15</td> </tr> <tr> <td>125 mm</td> <td>5.40</td> </tr> <tr> <td>160 mm</td> <td>6.95</td> </tr> <tr> <td>180 mm</td> <td>7.80</td> </tr> <tr> <td>200 mm</td> <td>8.65</td> </tr> </tbody> </table>	Nominal thickness dN (mm)	RD (m ² K/W)	dN (mm)		60 mm	2.20	80 mm	3.30	100 mm	4.15	125 mm	5.40	160 mm	6.95	180 mm	7.80	200 mm	8.65
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Thermal conductivity	For other thicknesses: calculation with: $RD = \text{nominal thickness} / \lambda_D$ (rounded downwards to nearest 0,05 m ² *K/W) dN = 20 – 79 mm: $\lambda_D = 0,027 \text{ W/m}^*K$ dN = 80 – 119 mm: $\lambda_D = 0,024 \text{ W/m}^*K$ dN = 120 – 240 mm: $\lambda_D = 0,023 \text{ W/m}^*K$																			
Thickness	dN = 20 - 240 mm																			
Reaction to fire	E																			
Durability of reaction to fire against heat, weathering, ageing/degradation	The fire performance of products placed on the market does not deteriorate with time.																			
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance	R _D see table 1																		
	Thermal conductivity	dN = 20 – 79 mm: $\lambda_D = 0,027 \text{ W/m}^*K$ dN = 80 – 119 mm: $\lambda_D = 0,024 \text{ W/m}^*K$ dN = 120 – 240 mm: $\lambda_D = 0,023 \text{ W/m}^*K$																		
	Durability characteristics	-																		
	Dimensional stability	DS(70,90)3 DS(-20,-)2																		
Deformation under specified compressive load and temperature conditions	NPD																			

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	Determination of the aged value of thermal resistance and thermal conductivity	dN = 20 – 79 mm: $\lambda_D = 0,027 \text{ W/m}^2\text{K}$ dN = 80 – 119 mm: $\lambda_D = 0,024 \text{ W/m}^2\text{K}$ dN = 120 – 240 mm: $\lambda_D = 0,023 \text{ W/m}^2\text{K}$
Compressive strength	Compressive stress	CS(10\Y)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
	Long term water absorption by partial immersion	-
	Long term water absorption by total immersion	-
	Flatness after one sided wetting	-
Water vapour permeability		NPD
Acoustic absorption index		NPD
Release of dangerous substances to the indoor environment		NPD
Continuous Glowing combustion		NPD

NPD = no performance declared

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:

Mark Bauder, Managing Director
Stuttgart, Apr 14, 2021