

Declaration of Performance

BauderPIR M

DoP-No.: M



1.	Unique identification code of the product-type	M-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:			
		Nominal thickness dN (mm) dN (mm)	RD (m ² K/W)	Nominal thickness dN (mm) dN (mm)	RD (m ² K/W)
		20 mm	0.70	120 mm	4.80
		30 mm	1.10	140 mm	5.60
		40 mm	1.45	160 mm	6.40
		50 mm	1.85	180 mm	7.20
		60 mm	2.20	200 mm	8.00
		80 mm	3.05	220 mm	8.80
		100 mm	3.80	240 mm	9.60
	Thermal conductivity	For other thicknesses: calculation with: RD = nominal thickness/λ _D (rounded downwards to nearest 0,05 m ² K/W)			
		dN = 20 – 79 mm: λ _D = 0,027 W/m*K			
		dN = 80 – 119 mm: λ _D = 0,026 W/m*K			
		dN = 120 – 240 mm: λ _D = 0,025 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 PU does not deteriorate with time.			
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance	RD see Table 1			
	Thermal conductivity	dN = 20 – 79 mm: λ _D = 0,027 W/m*K			
		dN = 80 – 119 mm: λ _D = 0,026 W/m*K			
		dN = 120 – 240 mm: λ _D = 0,025 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: $\lambda_D = 0,026 \text{ W/m}^2\text{K}$ dN = 120 – 240 mm: $\lambda_D = 0,025 \text{ W/m}^2\text{K}$
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:

A handwritten signature in blue ink that reads 'Mark Bauder'.

Mark Bauder, Managing Director
Stuttgart, Apr 14, 2021