

Declaration of Performance No. CPR-2025-131

Product-type code:	ArmaPET Eco50
Batch number:	see products label
Intended use:	The foam boards “ArmaPET Eco50” are intended to be used for thermal insulation in walls (including cellar walls), ceilings, floors, roofs, between rafters and timber work.
Manufacturer:	Armacell Benelux S.C.S. Rue des Trois Entites 9 BE-4890 Thimister-Clermont
System/s of AVCP:	3
European Technical Approval	ETA-21/0623 of 27.11.2025

Declared performance/s

Essential characteristics	Performance	Harmonised technical specification
Safety in case of fire		
Reaction to Fire	Euroclass E	EN 13501-1
Hygiene, health and the environment		
Content and/or release of dangerous substances	---	
Water vapour transmission	MU [μ] > 1000	EN 12086/set A.
Safety and accessibility in use		
Compressive stress	>150 kPa	EN826
	CS(10\Y)150	Classification as required by EAD 040179-00-1201
Dimensional stability (23°C, 50% RH)	The relative change in length $\Delta\epsilon_l \leq \pm 1 \%$ The relative change in width $\Delta\epsilon_b \leq \pm 1 \%$	EN 1603
Dimensional stability (48h, 70°C, 90% RH)	<u>For thicknesses 20-200mm:</u> The relative change in length $\Delta\epsilon_l \leq 4 \%$ The relative change in width $\Delta\epsilon_b \leq 4 \%$ The relative change in thickness $\Delta\epsilon_d \leq 4 \%$	EN 1604
Energy economy and heat retention		
Thermal Conductivity	$\lambda_D = 0,032 \text{ W/(m.K)}$ $R_D = \text{see Table 1}$	4.2.1 of EN 13164 and EN 12667
Dimensions: Thickness	T3	EN 823

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Dimensions: Width	±8mm for boards ≤1500mm ±10mm for boards >1500mm	EN 822
Dimensions: Length	±8mm for boards ≤1500mm ±10mm for boards >1500mm	EN 822
Squareness	< 5mm/m	EN 824
Flatness	< 6mm	EN 825
Long-term water absorption by immersion	WL(T)3	EN 12087, method 2A.
Long-term water absorption by diffusion	For thicknesses < 50 mm: No Performance Assessed For thicknesses ≥ 50 mm: WD(V)2 (EAD clause 2.2.15).	EN 12088
Freeze-thaw resistance	For thicknesses < 50 mm: No Performance Assessed For thicknesses ≥ 50 mm: FTCD4 (EAD clause 2.2.16).	EN 12091
Deformation under specified compressive load and temperature conditions	DLT(2)5	EN 1605
Tensile strength perpendicular to faces	For thicknesses ≤ 80 mm: TR400 (EAD clause 2.2.18). For thicknesses > 80 mm: TR100 (EAD clause 2.2.18).	EN 1607

Table 1: thermal resistance R_D ($m^2 \cdot K/W$) with ArmaPET Eco50 $\lambda_D = 0,032 W/(m \cdot K)$

dN (mm)	20	30	40	50	60	70	80	90	100
R_D	0,60	1,20	1,50	1,75	2,05	2,35	2,65	2,95	3,20

dN (mm)	110	120	130	140	150	160	170	180	190	200
R_D	3,50	3,80	4,10	4,40	4,70	4,95	5,25	5,55	5,85	6,15

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 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Stefan Reuterlöf, Technical & Marketing Manager PET Foams
Thimister, 14.01.2026

Stefan Reuterloev

Stefan Reuterloev (Jan 15, 2026 16:18:17 GMT+1)

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