

Declaration of Performance No. CPR-2022-109

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 26.10.2022

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	CS(10\Y)150	EN826
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 20-40mm:</u> The relative change in length $\Delta\epsilon_l \leq 6 \%$ The relative change in width $\Delta\epsilon_b \leq 6 \%$ The relative change in thickness $\Delta\epsilon_d \leq 6 \%$ <u>For thicknesses 41-200mm:</u> The relative change in length $\Delta\epsilon_l \leq 5 \%$ The relative change in width $\Delta\epsilon_b \leq 5 \%$ The relative change in thickness $\Delta\epsilon_d \leq 5 \%$	EN 1604

Energy economy and heat retention		
Thermal Conductivity	$\lambda_D = 0,035 \text{ W/(m.K)}$ $R_D = \text{see Table 1}$	4.2.1 of EN 13164 and EN 12667
Dimensions: Thickness	T3	EN 823
Dimensions: Width	$\pm 8\text{mm}$ for boards $\leq 1500\text{mm}$ $\pm 10\text{mm}$ for boards $> 1500\text{mm}$	EN 822
Dimensions: Length	$\pm 8\text{mm}$ for boards $\leq 1500\text{mm}$ $\pm 10\text{mm}$ for boards $> 1500\text{mm}$	EN 822
Squareness	$< 5\text{mm/m}$	EN 824
Flatness	$< 6\text{mm}$	EN 825
Long-term water absorption by immersion	WL(T)3	EN 12087, method 2A.
Deformation under specified compressive load and temperature conditions	DLT(2)5	EN 1605

*for 50mm thickness

Table 1: thermal resistance R_D ($\text{m}^2\text{K/W}$) with ArmaPET Eco50 $\lambda_D = 0,035 \text{ W/(m.K)}$

dN (mm)	20	30	40	50	60	70	80	90	100
R_D	0,55	0,85	1,10	1,40	1,70	2,00	2,25	2,55	2,85

dN (mm)	110	120	130	140	150	160	170	180	190	200
R_D	3,10	3,40	3,70	4,00	4,25	4,55	4,85	5,10	5,40	5,70

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 Reuterlöv, Technical & Marketing Manager PET Foams

Thimister, 21.11.2022



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