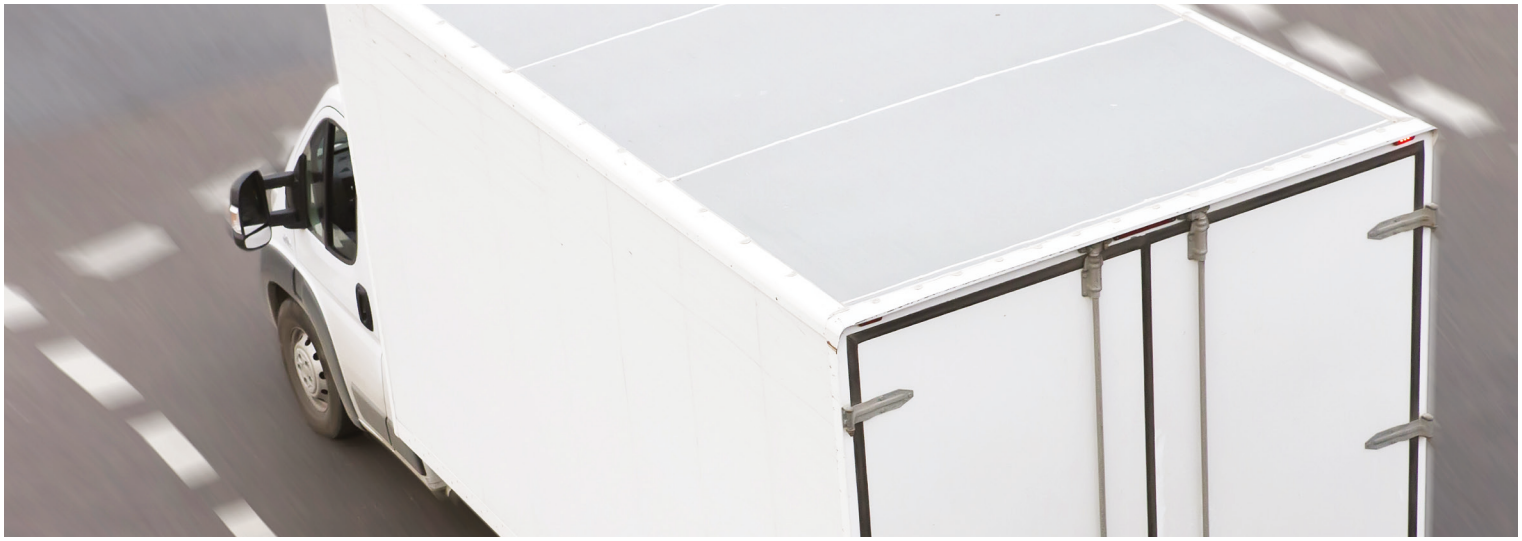

TECHNICAL DATA

ArmaPET® Eco50

ArmaPET Eco50 insulation structural panels solution looks beyond product performance and supports energy-efficient sustainable solutions with improved comfort and safety.

// Reliable lifetime insulation performance
// 100% recycled material supports environmental directives
// Fully recyclable foam boards and cut-offs
// Prevents degradation by moisture, rodents and insects
// Robust material allows fast and easy handling
// Direct extrusion for optimised insulation performance from 20 mm to 80 mm
// Thickness up to 200 mm and flexible dimensions
// Superior chemical compatibility

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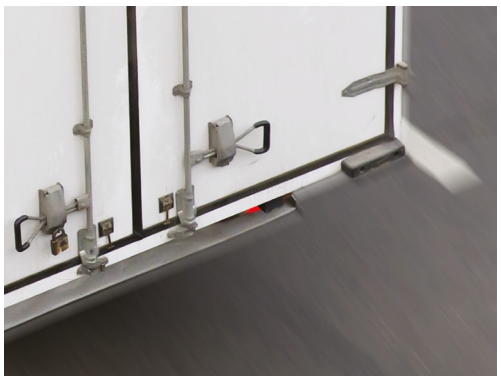

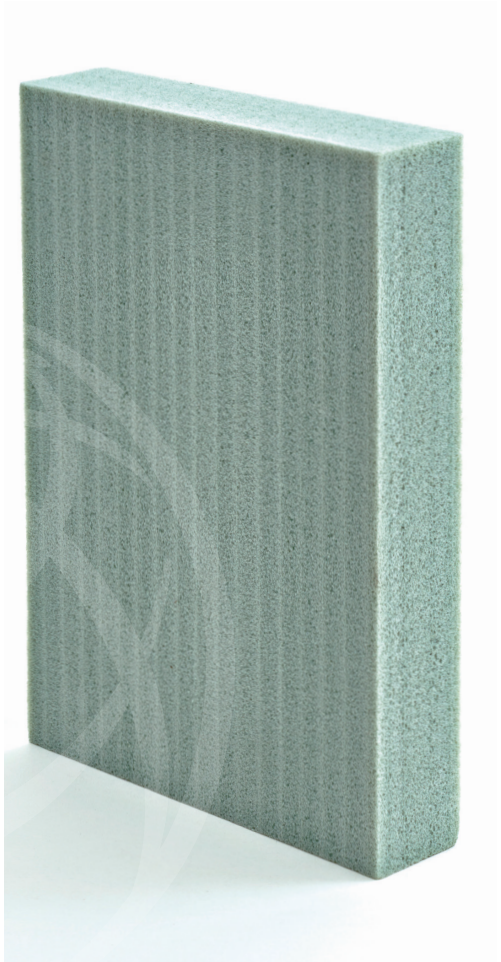

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INSULATION STRUCTURAL PANELS

ARMAPET ECO50

Technical Data

Density	EN 1602	kg/m³	50 +/- 10
Compressive Stress	EN 826	kPa	>165
Compressive Stress after freeze-thaw (wet) [1]	EN 12091 EN 826	kPa	>165
Compressive Stress after freeze-thaw (dry) [1]	EN 12091 EN 826	kPa	>165
Tensile Strength perpendicular to the faces [1]	EN 1607	kPa	50 mm: 400 100 mm: 250
Bending Strength	EN 12089 method B	kPa	50 mm: >400 100-200 mm: <400
Deformation at 40-kPa load and 70°C for 168 hours	EN 1605	%	⩽5
Water Vapour Transmission	EN 12086	μ	>1000
Water Absorption 24h partial immersion	EN 1609 method A	kg/m²	⩽0.2
Water Absorption long-term, total immersion	EN 12087 method 2A	vol%	⩽3
Dimensional Stability at 70°C and 90% RH	EN 1604	%	<5
Reaction to fire	EN 13501-1	Class	E

[1] Preliminary values based on 50 mm extrusion thickness.

BOARD DIMENSIONS

at room temperature

Length	
500 mm	+/- 8 mm
600 mm	+/- 8 mm
2448 mm	+/- 10 mm
3000 mm	+/- 10 mm

Width	
500 mm	+/- 8 mm
600 mm	+/- 8 mm
1000 mm	+/- 8 mm
1220 mm	+/- 8 mm

Thickness [2]	
20 mm	+/- 1mm
25 mm	+/- 1mm
30 mm	+/- 1mm
50 mm	+/- 1mm
100 mm	+/- 1mm
150 mm	+/- 1mm
200 mm	+/- 1mm

[2] Further thicknesses in the range (20 to 200) are available on request.

THERMAL CONDUCTIVITY & RESISTANCE

MEASURED according to EN 12667:

λ = W/m•K	20-200 mm
λ at 10 °C	0.030
λ at 23 °C	0.029
λ at 40 °C	0.028

R = (m²•K)/W	20 mm	25 mm	30 mm	50 mm	100 mm	150 mm	200 mm
R at 10 °C	0.67	0.83	1.00	1.67	3.33	5.0	6.67
R at 23 °C	0.69	0.86	1.03	1.72	3.45	5.17	6.9
R at 40 °C	0.71	0.89	1.07	1.78	3.57	5.36	7.14

DECLARED according to EN 13164 and EN 12667:

λ_D = W/m•K	20-200 mm
λ_D at 10 °C	0.035

R_D = (m²•K)/W	20 mm	25 mm	30 mm	50 mm	100 mm	150 mm	200 mm
R_D at 10 °C	0.55 [3]	0.70 [3]	0.85 [3]	1.40 [3]	2.85 [3]	4.25 [3]	5.70 [3]

[3] Rounded downwards to the nearest of 0.05 (m²•K)/W.

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ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,200 employees and 27 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For more company information, please visit:
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