

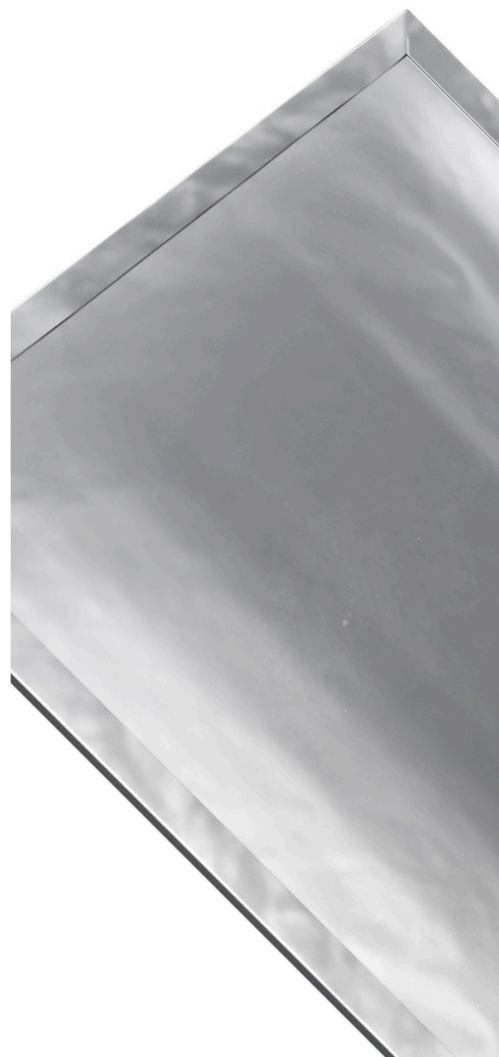


INSULATION JUST GOT BETTER

# ArmaGel Rail

Double-side laminated flexible aerogel insulation blanket

- // Approved in accordance with EN45545 HL3
- // Reduced space requirements to achieve exceptional thermal insulation properties in hot and cold climates
- // Improved sound absorption properties



 **armacell**<sup>®</sup>  
ArmaGel<sup>®</sup>

## TECHNICAL DATA - ARMAGEL RAIL

Brief description	ArmaGel Rail is a double side laminated flexible aerogel insulation blanket suitable for rail applications,
Material type	Aerogel insulation blanket with integrated zero-perm vapour barrier.
Additional material information	ArmaGel Rail is intended for use as an efficient thermal insulation to maintain comfortable ambient temperatures inside the train in all conditions. The product is suitable for use in multi-layer applications with other products.
Product colour range	Silver
Product range	Sheets in rolls, 5, 10, 15 and 20 mm (0.2, 0.4, 0.6, 0.8 in) thickness and width of 1.5 m (59 in). For further details, please refer to the product range tables at the end of this document.
Applications	ArmaGel Rail can be used in HVAC systems, Walls, Ceilings, Floor and Door applications for efficient thermal insulation at very low thickness.
Remarks	Please consult our Technical Services for further information and support.

Property	Value / Assessment	Standard / Test method	
<b>Temperature range</b>			
Service temperature <sup>1</sup>	Max. °C	Max. °F	
	110	230	
<b>Thermal conductivity</b>			
Declared thermal conductivity <sup>2</sup>	θm	24°C, 75°F	ASTM C177
	λd ≤ [W/[m·K]]	0.021	
	k ≤ [Btu-in/[h-ft <sup>2</sup> -°F]]	0.14	
<b>Transportation</b>			
Reaction to fire - hazard level	HL3 acc. R1 HL3 acc. R7 HL3 acc. R17	EN 45545-2	
<b>Resistance to water</b>			
Hydrophobic	Yes		
Water absorption	Maximum 8%	ASTM C1763	
<b>Physical attributes</b>			
Density	Nominal 190 kg/m <sup>3</sup> (11.86 lb/ft <sup>3</sup> )	ASTM C303	
<b>Health and environment</b>			
Health aspects	Neutral		
<b>Other technical features</b>			
Shelf life <sup>3</sup>	Max. 3 years		
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.		

<sup>1</sup>For use in temperatures beyond the maximum and minimum service temperature range indicated in the technical data table, please contact our Customer Service Centre.

<sup>2</sup>For use in temperatures beyond the published value, please contact Technical Services.

<sup>3</sup>Shelf life (maximum storage time) is limited to ensure that only currently manufactured products are installed on projects. This limitation is restricted solely to storage of the product and does not affect the lifetime of product after it has been installed.

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## ABOUT ARMACELL

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal 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 3,300 employees and 25 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 acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.



For more information, please visit:  
[www.armacell.com](http://www.armacell.com)