

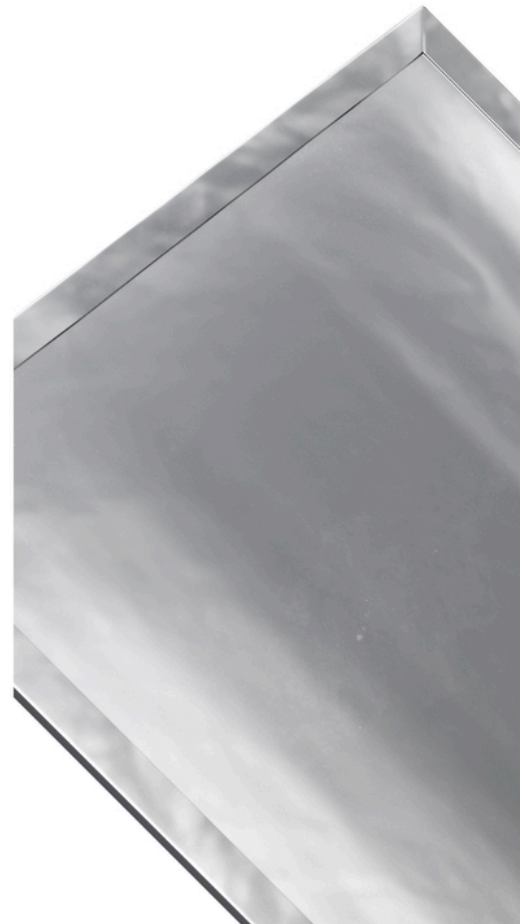


INSULATION JUST GOT BETTER

# 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>  
MAKING A DIFFERENCE AROUND THE WORLD



## 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 color 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>			
1 - Declared thermal conductivity W/(m·K) <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>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.

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract.

At Armacell, your trust means everything to us, so we want to let you know your rights and make it easier for you to understand what information we collect and why we collect it. If you would like to find out about our processing of your data, please visit our Data Protection Policy.

Trademarks followed by © or TM are trademarks of the Armacell Group. © Armacell, 2024. All rights reserved.

ArmaGel | ArmaGel Rail | TDS | 052024 | en-US

## ABOUT ARMACELL

---

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)

