



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

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 **armacell**[®]
ArmaGel[®]

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 (0.20, 0.39, 0.59, 0.79 in) thickness and width of 1.5 m (59.00 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
Temperature range			
Service temperature ¹	Max. °C	Max. °F	
	110	230	
Thermal conductivity			
Declared thermal conductivity ²	θm	24°C, 75°F	ASTM C177
	λd ≤ [W/[m·K]]	0.021	
	λd ≤ [Btu-in/(h-ft ² -°F)]	0.14	
Resistance to water			
Hydrophobic	Yes		
Water absorption	Maximum 8%		ASTM C1763
Physical attributes			
Density	160 to 240 kg/m ³ 10 to 15 lb/ft ³		ASTM C303
Other technical features			
Shelf life ³	Max. 3 years		
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.		

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

²For use in temperatures beyond the published value, please contact Technical Services.

³Shelf 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.

Roll – jumbo precovered

Item	Thickness [mm]	Thickness [Inch]	Width (m)	Width [inch]	Length [m]	Length [ft]	EAN	Primary content [metric]	Primary content [imperial]
AGR-10-00/150 P	10	0.39	1.5	59	40	131.24	7612207483055	60 m ²	645.848 ft ²

Other information

Thickness tolerance	5 mm (0.20 in) nominal thickness: 5.0 - 7.0 mm 10 mm (0.39 in) nominal thickness: 10.0 - 12.5 mm 15 mm (0.59 in) nominal thickness: 15.0 - 17.5 mm 20 mm (0.79 in) nominal thickness: 20.0 - 22.5 mm								
Length tolerance	± 5%								
Width tolerance	± 3%								
Remarks	5mm /15mm / 20mm thick blankets are available on request								

OUR CUSTOMERS EXPECT THE BEST. WE WORK HARD TO GO BEYOND THAT AND EXCEED THEIR EXPECTATIONS.

At Armacell we want to create a unique customer experience. We understand the challenges of today's construction industry and support you in the successful delivery of your projects. From planning to delivery, our 360° service supports you throughout the entire process.



SERVICE AND TECHNICAL INFORMATION AVAILABLE 24/7

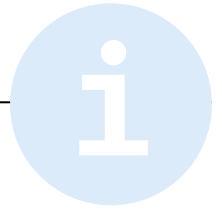
At Armacell, we do everything we can to ensure your project runs smoothly. This is why the information about the Armacell services you benefit from is available 24/7 from Armacell.com website as well as from our planning tools (BIM, specification documents, ArmaWin, as well as our sustainable building policy)

DEDICATED LOCAL CONTACTS

We aim to create open lines of communication with our customers. From on-site trainings and webinars by our Armacell technical experts advising on project planning and safety instructions to our local dedicated sales and customer services, your local Armacell dedicated team is working in partnership with you to achieve more together.

DIGITAL INFORMATION FLOWS

From order to delivery, we also provide you with digital information flows such as EDI and other well-known data formats that are widely used in the construction sector worldwide.



OUR STANDARD LOGISTICS SERVICES INCLUDE

- // Material ordered will be shipped from our facilities within 48 hours after order confirmation
- // Full truck loads and full pallets (not mixed – 1 SKU per pallet)
- // List prices in this document are based on Ex Works
- // Container loading with standard goods
- // Customs clearance (including documentation) for standard deliveries outside EU
- // Dangerous goods process for road freight

WE GO BEYOND STANDARD SERVICES AND ALSO PROPOSE YOU ADDITIONAL SERVICES*

OPIMISED PACKAGING

- Edge protection
- Strapping
- Doubled stretching
- Reinforced cardboard with extra layer
- Additional warning tape

LABELLING

- Extra label for transport instructions

EXTRA DELIVERY SERVICES

- Just in time delivery
- Delivery with lifting platform for partial or complete load
- Express and direct shipments
- Booking a delivery time slot via your EDP system
- Forklift truck for unloading at construction site
- Air and sea freight deliveries
- Dangerous goods shipment process for air and sea freight



To mitigate cost increases and reduce waste generation, we also propose a pallet return service* by which pallets can be handed at Armacell collection points.

* Please contact your local Customer Service Centre to see which of these services apply to your country.

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.

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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 3200 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 information, please visit:
www.armacell.com