



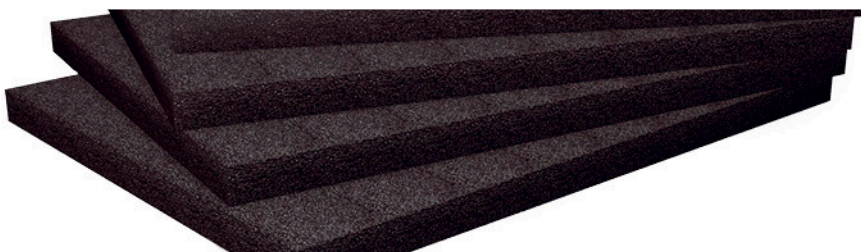
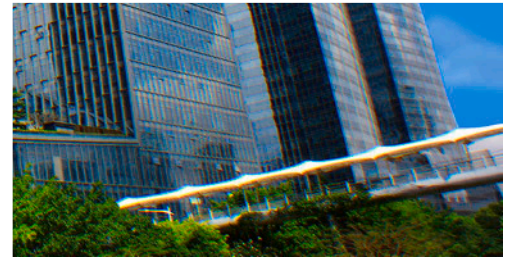
HIGH-PERFORMANCE  
ACOUSTIC ABSORBER FOR A  
QUIETER ENVIRONMENT

# ArmaComfort S

Effective air-borne sound absorption  
across a broad frequency range

- // Fibre-free, open-cell material with complex pore geometry
- // Flexible and light weight
- // Additional barrier performance, vibration damping and de-coupling (isolation) properties

[www.armacell.com.sg](http://www.armacell.com.sg)



 **armacell**<sup>®</sup>  
ArmaComfort<sup>®</sup>

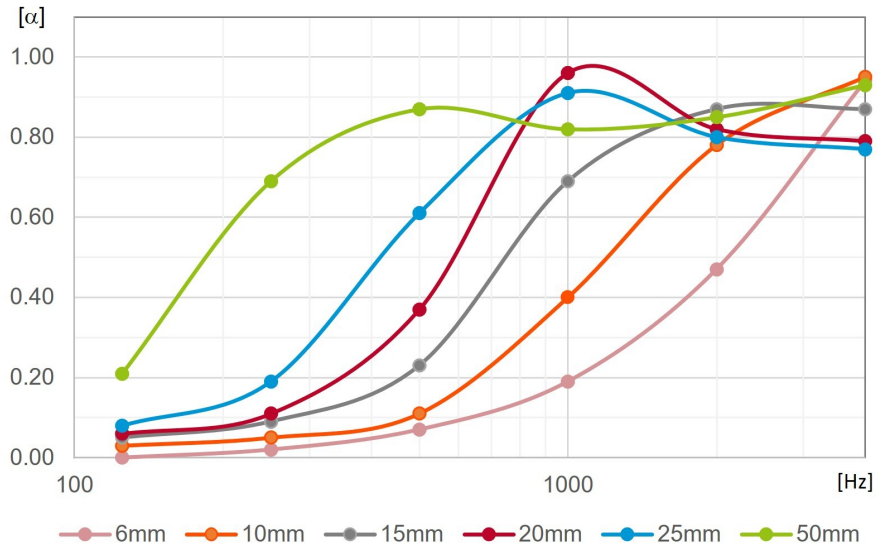
## TECHNICAL DATA - ARMACOMFORT S

Brief description	ArmaComfort is a unique open-cell sound absorber that offers additional barrier (transmission loss) performance and both vibration damping and de-coupling (isolation) properties.
Material type	Open-cell elastomeric foam based on synthetic rubber
Product colour range	Black
Special features	Excellent sound absorption performance.
Applications	Delivering optimal performance at lower thickness than conventional materials, ArmaComfort is the trusted acoustic absorption material for HVAC applications (such as the fan-coil units, duct and cabinet linings and chiller systems), heavy industrial and automotive purposes (such as engine component lining and under-bonnet insulation), enclosures as well as in oil and gas facilities.

Property	Value / Assessment							Standard / Test method
<b>Temperature range</b>								
Service temperature <sup>1</sup>	Min. °C						Max. °C	
	-20						85	
<b>Thermal conductivity</b>								
Declared thermal conductivity <sup>2</sup>	Øm						23 °C	GB/T 10294, ISO 8302
	$\lambda d \leq [W/(m \cdot K)]$						0.047	
<b>Fire Performance and Approvals</b>								
Burning behaviour of building materials and products	Class 1							BS 476 Part 7
<b>Flammability</b>								
Flammability of plastic materials	V-0 rating							UL 94
<b>Physical attributes</b>								
Density	$\geq 140 \text{ kg/m}^3$							ISO 845
<b>Acoustic performance</b>								
Noise reduction coefficient	Thickness (mm)	6	10	15	20	25	50	ASTM C423, ISO 354
	NRC	0.20	0.35	0.45	0.55	0.65	0.80	
Octave band sound absorption coefficient, $\alpha$	Thickness	6mm	10mm	15mm	20mm	25mm	50mm	ISO 354
	125 Hz	0.00	0.03	0.05	0.06	0.08	0.21	
	250 Hz	0.02	0.05	0.09	0.11	0.19	0.69	
	500 Hz	0.07	0.11	0.23	0.37	0.61	0.87	
	1000 Hz	0.19	0.40	0.69	0.96	0.91	0.82	
	2000 Hz	0.47	0.78	0.87	0.82	0.80	0.85	
4000 Hz	0.94	0.95	0.87	0.79	0.77	0.93		

Property	Value / Assessment	Standard / Test method
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Absorption coefficient graph



**Weather and UV resistance**

Outdoor use For outdoor application, the outer layer of the material must be protected within 3 days with an adequate covering like ArmaClad Arma-Chek Silver 350 or metal jacketing. For further information, please contact Technical Services.

**Health and environment**

Health aspects Free of fibre and formaldehyde.

Environmental Product Declaration (EPD) Type III EPD: Declaration number 4789125188.101.1, UL Environment. ISO 14025

**Other technical features**

Adhesion and sealing ArmaFlex Adhesive 520 shall be used for reliable adhesion of joints and seams.

Storage Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.

<sup>1</sup>For temperatures beyond the identified temperature range, please contact Armacell's Sales team for more information.  
<sup>2</sup>For reference only.

Width: 1.0m, Length: 1.0m

Item	Thickness [mm]	Width [m]	Length [m]	Content [metric]
AS06100SMB	6	1	1	8 m <sup>2</sup>
AS10100SMB	10	1	1	5 m <sup>2</sup>
AS15100SMB	15	1	1	3 m <sup>2</sup>
AS20100SMB	20	1	1	2 m <sup>2</sup>
AS25100SMB	25	1	1	2 m <sup>2</sup>
AS50100SMB	50	1	1	1 m <sup>2</sup>

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.

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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)