

ArmaSound®

Barrier E

HIGH PERFORMANCE NOISE BARRIER
FOR ARMASOUND INDUSTRIAL SYSTEMS



- Excellent at reducing the transmission of airborne sound
- Enhances the insertion loss performance of pipe insulation
- Flexible, easy to install
- Mean sound reduction index $R_w \geq 28$ dB
- Free of lead, unrefined aromatic oils and bitumen
- Integral component of ArmaSound Industrial Systems
- Compliant to ISO 15665 Class C and Shell DEP 31.46.00.31-Gen Class D
- Satisfies acoustic class 8 according to NORSOK R-004

Technical Data - ArmaSound Barrier E

Brief description	High performance mass loaded sound barrier for a quieter environment.
Material type	Vinyl sound barrier mat. Thermoplastic polymer compound.
Colour	Black
Material special information	The material is free of lead, unrefined aromatic oils and bitumen.
Product range*1	Sheets / rolls, 2, 3 and 4 mm thickness.
Applications	Flexible sheet for noise control in industrial applications - designed as an integral component of the ArmaSound Industrial Systems.
Installation	The ArmaSound® Industrial Systems installation manual should be consulted before installation. Please consult our Customer Service Centre.

Property	Value / Assessment			Standard / Test method
Temperature range				
Service temperature	Max. service temperature	+65 °C	+149 °F	
	Min. service temperature	-20 °C	-4 °F	
Fire performance & approvals				
International standards	Self-extinguishing, burn rate (flame progression) < 100 mm/min.			Tested according to FMVSS 302
Weight				
Mass per unit area	for 2 mm thickness: 4.8 to 5.5 kg/m²		0.98 to 1.13 lb/ft²	
	for 3 mm thickness: 7.2 to 8.25 kg/m²		1.47 to 1.69 lb/ft²	
	for 4 mm thickness: 9.7 to 11.0 kg/m²		1.99 to 2.25 lb/ft²	
Acoustic performance				
Acoustic insertion loss	When used as part of a system ArmaSound Barrier E complies to ISO 15665 Class C and Shell DEP 31.46.00.31-Gen Class D.			Tested according to ISO 3741 (Equivalent method ASTM E1222) Classified according to ISO 15665
Reduction of structure-borne sound transmission	for 2 mm thickness: Mean sound reduction index $R_w \geq 22$ dB			Tested according to ISO 10140-2
	for 3 mm thickness: Mean sound reduction index $R_w \geq 25$ dB			
	for 4 mm thickness: Mean sound reduction index $R_w \geq 28$ dB			
Mechanical properties				
Tensile strength (MD/CD)	≥ 1.8 MPa		≥ 261 psi	Tested according to ISO 37
Elongation (MD/CD)	≥ 25 %			Tested according to ISO 37
Other technical features				
Health aspects	Free of lead			
Application and handling conditions*2	Ambient temperature:	+5 °C to +35 °C	+41 °F to +95 °F	
	Max. relative humidity:	80%		
Adhesion and fixing	Armaflex Adhesive 520 or Adhesive HT625 shall be used for reliable adhesion. 19 mm wide stainless steel bands with wing clips (or blind rivets) shall be used for fixing and final securing. 50 mm long x 0.5 mm thick x 19 mm wide - stainless steel 'S' clips are also required on vertical piping and vessels.			
Storage	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.			
Shelf (storage) life*3	Max. 3 years			

1. Nominal values.
2. For environmental conditions outside the given range please contact our Customer Service Centre.
3. Shelf life (maximum storage time) is limited in order to make sure that only currently manufactured products are applied 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 typical application conditions. Recipients of this information should, in their own interest and responsibility, clarify with us in due time whether or not the data and information apply to the intended application area. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct. However, Armacell cannot guarantee that the data are 100 % accurate. Furthermore, minor deviations in colour, quality and dimensions are unavoidable and in most cases do not influence the performance of the product. Armacell expressly disclaims any and all liability in relation to any results obtained or arising from any use of the product or reliance on such information. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the goods described or the information provided herein. Please consult our Customer Service Centre before insulating stainless steels. Installation instructions are available in our Armaflex installation manual. All the statements and technical information within this document should be read in conjunction with the customer's own specification. It is the responsibility of the recipient to inform all involved parties about the content of these documents. The described and recommended methods should be strictly followed. If there is a requirement to deviate from our recommendations, please contact us in advance to discuss possible suitable alternatives. Armacell will not be liable for any claim resulting from a failure to observe our specification or any other agreed solutions and from non-observance of the customer's specification.

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