

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
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- Mean sound reduction index R_w : 28 dB
- Free of lead, unrefined aromatic oils and bitumen
- Integral component of ArmaSound Industrial Systems



Technical Data - ArmaSound® Barrier E [ES]

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	
Applications	Flexible sheet for noise control - designed as an integral component of the ArmaSound Industrial Systems	
Assembly	The ArmaSound Industrial Systems Application manual should be consulted before assembly. Please consult our Customer Service Centre	
Property	Value/Assessment	Special Remark
Temperature Range		
Temperature Range	max. service temperature	+ 65 °C
	min. service temperature	- 20 °C
Fire Performance		
Other Fire Class	FMVSS 302	self-extinguishing
Acoustic Performance		
Reduction of structure-borne sound transmission	Mean sound reduction index R_w for 2 mm	≥ 22 dB
	Mean sound reduction index R_w for 3 mm	≥ 25 dB
	Mean sound reduction index R_w for 4 mm	≥ 28 dB
Other technical features		
Density	2400 to 2750 kg/m ³	Tested according to ISO 845, ASTM D1622
Weight	2mm = 5 kg/m ² 3mm = 7.5 kg/m ² 4mm = 10 kg/m ²	
Tensile strength	MC/CD >1.8 MPa	Tested according to ISO 37
Elongation	MD/CD >25 %	Tested according to ISO 37
Mass per unit area	2mm = 4.8 to 5.5 kg/m ² 3mm = 7.2 to 8.25 kg/m ² 4mm = 9.7 to 11.0 kg/m ²	
Health Aspects	Dust & Fibre free	
Storage & Shelf life	Shall be stored indoors, in clean and dry conditions, away from direct sunlight. Storage: Max. 3 years	
Acoustic Insertion Loss	When used as part of a system ArmaSound Barrier E complies to ISO 15665 Classes A to C and Shell DEP 31.46.00.31-Gen Class D.	Tested according to ISO 3741

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. Armaflex 520 or Armaflex HT 625 Adhesive must be used to guarantee proper installation. 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. 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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