



ARMASOUND RD240

HIGH PERFORMANCE SOUND ABSORPTION FOR A QUIETER ENVIRONMENT



- Optimal performance at lower thickness
- Excellent sound absorption behaviour
- Easy application and low maintenance
- Designed for use in demanding environments

- Compliant to ISO 15665 Classes A to C and Shell DEP 31.46.00.31-Gen Class D
- Meets NORSOK R-004 Classes 6, 7 and 8
- Highly hydrophobic, open-cell structure designed to resist water ingress
- Optimum density, air-flow resistivity and complex pore geometry for maximum acoustic benefit

Technical Data - ArmaSound RD240

Brief description	Highly-flexible, hydrophobic, open-cell acoustic insulation material with complex pore geometry.
Material type	Elastomeric foam based on synthetic rubber.
Colour	Black
Product Range	Sheets, 10, 15, 20, 25, 30, 40 and 50 mm thickness / width 500 and 1000 mm / length 1000 and 2000 mm
Applications	In general applications ArmaSound® RD240 is used as acoustic insulation material with excellent sound absorption performance in a variety of different applications, e.g. fan-coil units, duct linings, cabinet linings, chiller systems, enclosures, pipelines. In industrial applications ArmaSound® RD240 is used as an important component of Arma-Sound Industrial Systems to provide acoustic insulation on industrial pipework and vessels ensuring reduction of sound transmission. Further industrial application area is sound absorption performance of enclosures.
Special Features	Excellent sound absorption performance.
Assembly	For industrial applications it is recommended to consult the ArmaSound Industrial Systems Application manual and other relevant Armacell installation instructions and application manuals. Please consult our Customer Service Centre

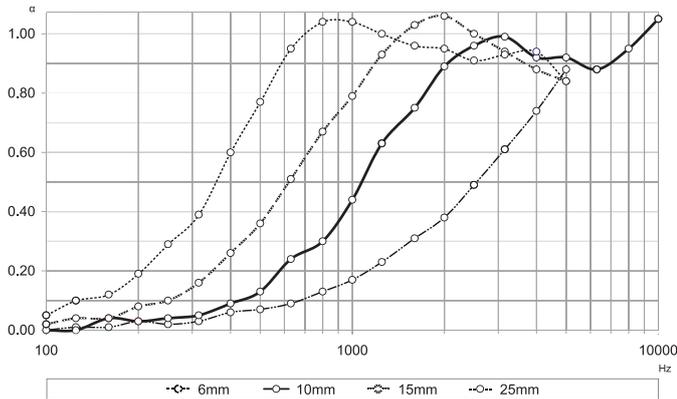
Property	Value/Assessment							Special Remark	
Temperature Range									
Temperature Range	max. service temperature							+85 °C	
	min. service temperature							-20 °C	
Thermal Conductivity									
Thermal Conductivity	ϑ_m		0				°C	Tested according to EN 12667 (Equivalent methods ASTM C177 and C518)	
	λ		≤		0,062		W/(m · K)		
Fire performance									
Other Fire Class ¹	BS 476 Part 7		Class 1				BS 476 Class 1	Approved by Lloyds	
	ASTM E84		< 25 Flame Spread Index						
Practical Fire Behaviour	Self-extinguishing, does not drip, does not spread flames								
Acoustic Performance									
								Tested according to EN ISO 354	
								Rated according to EN ISO 11654	
								Tested according to ISO 345. rated according to EN ISO 11654	
Calculated broadband insertion loss	α_s / Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Tested according to ISO 354. Rated according to EN ISO 11654	
	6 mm	0,010	0,030	0,070	0,180	0,390	0,740		
	10 mm	0,010	0,040	0,150	0,460	0,870	0,940		
	15 mm	0,030	0,110	0,380	0,800	1,030	0,890		
	25 mm	0,090	0,280	0,770	1,030	0,940	0,900		
	Thickness	6 mm	10 mm	15 mm	25 mm				
	α_w	0.15 (H)	0.25 (H)	0.40 (MH)	0.60 (MH)				
	Class	E	E	D	C				
NRC (acc. to ASTM C 423)	0,150	0,400	0,600	0,750					
Other technical features									
Density	220 to 360 kg/m ³							Tested according to ISO 845, ASTM D1622	
Dimensions and tolerances	l:1000 mm (+/- 15 mm)							Tested according to producer's quality control	
Tear strength	0.4 - 1.4 kN/m							Tested according to ISO 34-1	
Tensile strength	MD 70 to 190 kPa							Tested according to ISO 1798	
Elongation	MD 50 - 90 %							Tested according to ISO 1798	

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Health aspects	Fibre dust free	
Storage & Shelf life	Material shall be stored indoors, in clean and dry conditions, away from direct sunlight.	
Acoustic Insertion Loss	When used as part of a system ArmaSound RD 240 complies to ISO 15665 Classes A to C and Shell DEP 31.46.00.31-Gen Class D	Tested according to ISO 3741 and ISO 15665 (equivalent method ASTM E1222)
Water absorption ¹	4.4 %	Tested according to AGI Q 136

1. Based on single test results. Can be used for information / reference only

Typical Sound Absorption Behaviour of ArmaSound RD 240 (ISO 354)



Typical Sound Absorption Values of ArmaSound RD 240

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.

ArmaSound RD240 sheets



Code	Thickness [mm]	Width [m]	Length [m]	m ² /carton
ASD-240-06	6	1.0	1.0	8
ASD-240-10 •	10	1.0	1.0	5
ASD-240-15 •	15	1.0	1.0	3
ASD-240-20	20	1.0	1.0	2
ASD-240-25 •	25	1.0	1.0	2

Remark

Further dimensions and insulation thicknesses on request.

- Item not in stock. Delivery on request. [MTO]

ArmaSound RD240 sheets self-adhesive



Code	Thickness [mm]	Width [m]	Length [m]	m ² /carton
ASD-240-06/A	6	1.0	1.0	8
ASD-240-10/A	10	1.0	1.0	5
ASD-240-15/A	15	1.0	1.0	3
ASD-240-20/A	20	1.0	1.0	2
ASD-240-25/A	25	1.0	1.0	2

Remark

Further dimensions and insulation thicknesses on request.