

# ArmaSound® RD<sub>240</sub>

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
Material Special Information	Self-adhesive coating: pressure-sensitive adhesive coating on modified acrylate basis with mesh structure. Adhesive covered with polyethylene film.
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 provides 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.
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.

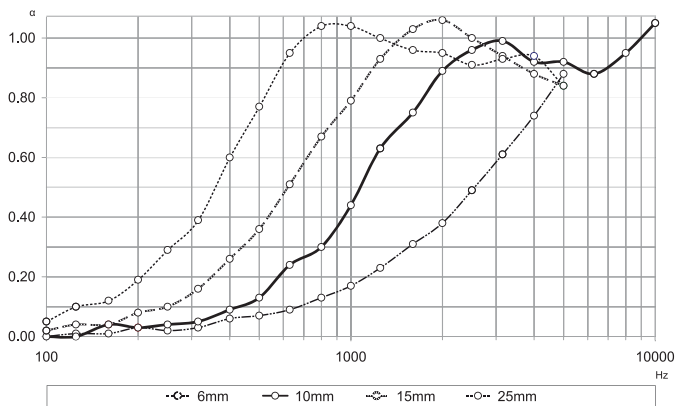
Property	Value/Assessment							Test <sup>1</sup>	Super- vision <sup>2</sup>	Special Remarks
<b>Temperature Range</b>										
Temperature Range	Max. service temperature							+85 °C		
	Min. service temperature							-20 °C		
<b>Thermal Conductivity</b>										
Thermal Conductivity	$\vartheta_m$		0		°C		ES 6591		Tested according to EN 12667 (Equivalent methods ASTM C177 and C518)	
	$\lambda$		≤		0.062					W/(m · K)
<b>Fire performance</b>										
Reaction to fire	Euroclass						E	D 4225	o	
Other fire class <sup>1</sup>	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									
<b>Acoustic performance</b>										
Sound absorption										Tested according to ISO 354 / BS EN 20354
Weighted sound absorption coefficient $\alpha_w$	Dependent on material thickness.									
										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	$a_s$ / 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					
	$\alpha_w$	0.15 (H)	0.25 (H)	0.40 (MH)	0.60 (MH)					
	Class	E	E	D	C					
NRC	0.150	0.400	0.600	0.750						
	(acc. to ASTM C 423)									
<b>Other technical features</b>										
Density	220 to 360 kg/m <sup>3</sup>									Tested according to ISO 845, ASTM D1622

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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
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	1.1 Vol - % (sheet 10 mm) 1.3 Vol - % (sheet 25 mm)			Tested according to ISO 3741 and ISO 15665 (equivalent method ASTM E1222)
Water absorption <sup>1</sup>	4.4 %			Tested according to AGI Q 136

1. Based on single test results which are not monitored in regular frequency. Can be used for information only.
- \*1 Further documents such as test certificates and approvals can be requested using the registration number given.
- \*2 ●: Official supervision by independent institutes and /or test authorities  
○: In-house quality monitoring

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



### Typical Sound Absorption Values of ArmaSound RD 240

All statements and technical information are based on results obtained under typical conditions. It is the responsibility of the recipient to verify with us that the information is appropriate for the specific use intended. 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 <sup>2</sup> /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 available on request.

- Not a stock item. Delivery on request.

## ArmaSound RD240 self-adhesive sheets



Code	Thickness [mm]	Width [m]	Length [m]	m <sup>2</sup> /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 available on request.

- Not a stock item. Delivery on request.