

AEROFOAM[®]

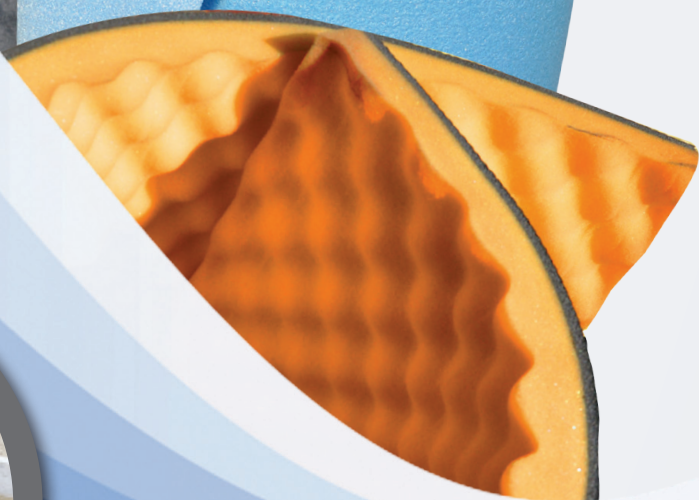
ACOUSTIC SOLUTIONS

CLASS 0 ASTM E84

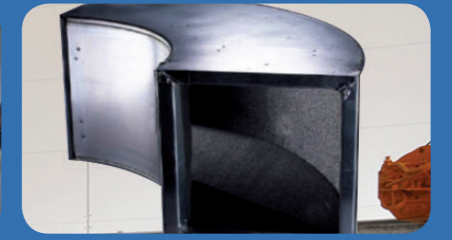


**ONE BRAND MANY
ACOUSTIC SOLUTIONS FOR
PIPES & DUCTS, WALLS & FLOORS
EASY TO INSTALL**

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AEROFOAM® ACOUSTIC SOLUTION

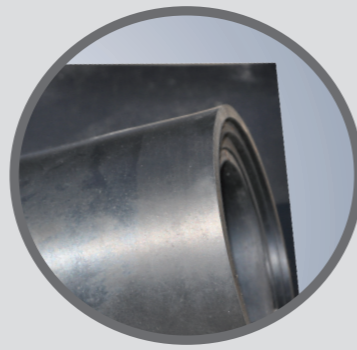


ACOUSTIC COMFORT



During the construction of a home or an office, we focus our attention to the appropriate standard of the building, air conditioning, proper ventilation, orientation towards cardinal points of the compass, sun exposure or the distance from noise sources, such as busy roads. But often we forget about the thing that is imperceptible – the acoustic comfort. The sounds of ventilation, sanitation, equipment such as lifts and compressors, and of course the sounds generated by our neighbors or even precipitation – all this can cause noise disruption.

Providing adequate acoustic comfort has a substantial impact on our well-being at home, as well as efficiency and concentration at work. The most effective solution is to ensure sound isolation of each room at the stage of construction of the building and use of sound absorptive materials. However, thanks to modern technology, it is possible to increase the acoustic comfort even in projects already completed. For the best results it is worth to entrust this matter to professionals who will select the appropriate materials and install them expertly.

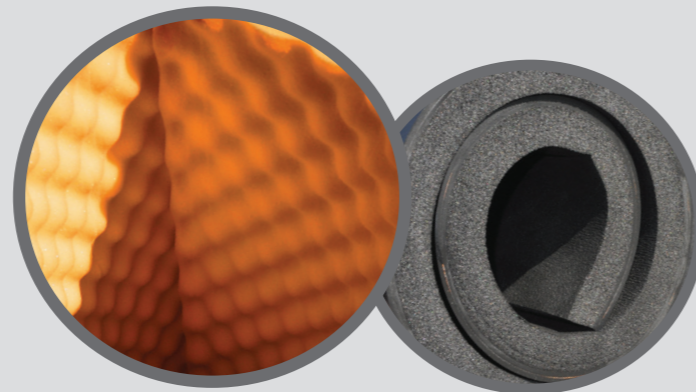


Aerofoam Acoustic High Mass Barrier (AA HD)

Aerofoam Acoustic Barrier is a solid flexible rubber 4.5 – 5 kg/m² weight and 3mm thickness rendering high performance as a sound barrier as the product itself or along with other Aerofoam products. The limp and tough structure resist sound waves reducing noise transmission. Aerofoam Acoustic barrier is produced and supplied considering big number of applications and market requirements.

The Aerofoam acoustic barrier is ideal to use in hotels and manufacturing facilities. It can reduce road noise and this coming from compressors and generators. Does not contain bitumic components.

Thickness (3mm, ±1mm Tolerance) + Size (1x1m), (1x2m)

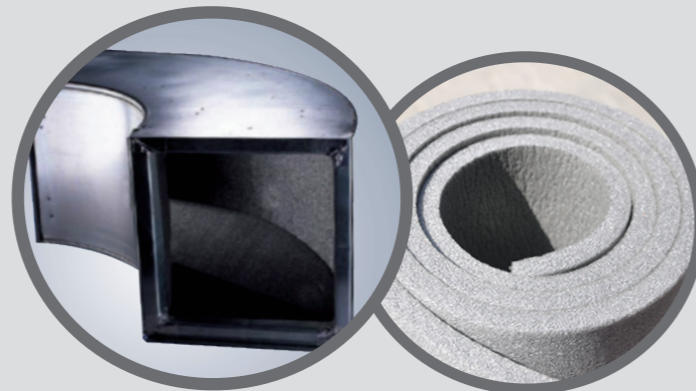


Aerofoam Acoustic Lagging (AA DS)

Semi-open cell elastomeric foam covered with solid high mass rubber. Both layers are integrated during production process. Product is designed to reduce sound propagation coming from various sources. Product can be an excellent sound barrier as it is, or as an additional layer on existing partition. Can be used as a single product or in combination with other Aerofoam products. Moreover product AA DS can be used when thermal and acoustic insulation are required at the same time PU open cell foam can be used as a product variant. Examples of applications: covering waste water or drainage pipes, garbage pipes, walls and kind of partition, ventilation fan covering, compressors units covering, engine compartments, air duct sound insulation (outside).

Thickness (8,13,20, 25*mm) + Size (1x1m,1x2m)

***25mm thickness are available upon request.**



Aerofoam Acoustic Liner

(AA LX) - XLPE Based

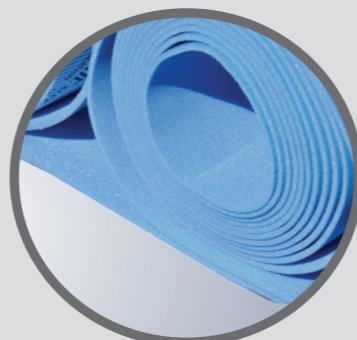
(AA LN) - NBR Based

XLPE - Aerofoam Acoustic Liner is a flexible cross-linked semi open cell polyolefin foam with or without pressure sensitive adhesive on one side. Acoustic Duct Liner is designed to reduce the sound pressure level inside air ducts, but it can be successfully used in operating cabins, silencers, decompression boxes and all kind of casing. Aerofoam acoustic duct liner is free of harmful irritants making it safe to handle and install. Aerofoam Acoustic duct liner is an inherently fire resistant and high temperature foam with excellent sound absorption properties. NBR - Aerofoam Acoustic Liner is flexible elastomeric foam. Acoustic duct liner has a semi open cell structure which is suitable for thermal insulation and sound absorption, mainly inside the ducts. Due to the high chemical and biological resistance, product has a long technical life.

Thickness (15mm, 25mm) + Size (1,2x20m & 1.2 x 2.88m)

***Both products are available as Self-Adhesive.**

***Other thickness are available upon request.**



Aerofoam Acoustic Silent Floor (AA SF)

Aerofoam Acoustic Silent Floor is a flexible cross linked closed cell polyolefin foam with good quality, medium density underlay for all floating floor applications.

Acoustic Silent Floor is designed to reduce impact of sound in floating floor systems. Designed for use in both commercial and residential buildings, such as apartments, hotels, hospitals, schools and universities to reduce the sound transmission level to below floors. Usual application is to separate concrete base floor from final screed or screed from final finishing. Used in corners (between wall and floor) for this same reason.

Thickness (3,5,8,10mm) + Size (1,2x20m)

***Other thickness upon request.**

TECHNICAL DATA

Aerofoam Acoustic Lagging - sheet (AA DS - 8,13,20, 25mm)

Property	Value/ Assesment	Tested acc. to:
Color	Black	
Available size	1mx1m or 1mx2m (+/-2.5% tolerance)	
Thickness	8,13,20,25mm (+/-1.5mm tolerance)	
Density of eastomeric foam	45-65 kg/m ³	
Density of solid rubber	1560-2000kg/m ³	
Weight	8mm (5.27kg/m ² -5.32kg/m ²) 13mm (5.45kg/m ² -5.75kg/m ²) 20mm (6.00kg/m ² -6.2kg/m ²) 25mm (6.12kg/m ² -6.3kg/m ²)	
Sound reduction	R _w (C;Ctr) = 27 dB (-1;-4)dB	as per EN ISO - 140-3
Sound reduction {waste water system}	12-17 dB	as per EN ISO 14366
Thermal Conductivity of foam core	0.034 W/mK at 23°C	as per ASTM C518 standard

Aerofoam Acoustic Duct Liner - sheet (AA LX, AA LN - 15,25mm)

Property	Value/ Assesment		Tested acc. to:																			
	AA LX - XLPE Based	AA LN - NBR Based																				
Color	grey (other colors on request)	black																				
Available size	1,2mx20m (+/-20mm tolerance)																					
Thickness	15,25mm (-1mm+1.5mm tolerance)																					
Density of foam	30kg/m ³ (+/-10% tolerance)	60kg/m ³ (+/-10% tolerance)																				
1sq. m weight	15mm (0.34kg/m ² -0.41kg/m ²) 25mm (0.56kg/m ² -0.69kg/m ²)	15mm (0.81kg/m ² -0.99kg/m ²) 25mm (1.35kg/m ² -1.65kg/m ²)																				
Noise reduction coefficient α	<table border="1"> <thead> <tr> <th colspan="2">XLPE - AALX</th> <th colspan="2">NBR - AA LN</th> </tr> <tr> <th>Thickness</th> <th>NRC</th> <th>Thickness</th> <th>NRC</th> </tr> </thead> <tbody> <tr> <td>15mm</td> <td>0.20</td> <td>15mm</td> <td>0.35</td> </tr> <tr> <td>25mm</td> <td>0.30</td> <td>25mm</td> <td>0.40</td> </tr> <tr> <td>40mm</td> <td>0.40</td> <td>40mm</td> <td>0.50</td> </tr> </tbody> </table>	XLPE - AALX		NBR - AA LN		Thickness	NRC	Thickness	NRC	15mm	0.20	15mm	0.35	25mm	0.30	25mm	0.40	40mm	0.40	40mm	0.50	As per ISO 354
XLPE - AALX		NBR - AA LN																				
Thickness	NRC	Thickness	NRC																			
15mm	0.20	15mm	0.35																			
25mm	0.30	25mm	0.40																			
40mm	0.40	40mm	0.50																			
Fire resistance	Class O (FSI: 15 & SDI: 25)	Class O (FSI: 25 & SDI: 30)	as per BS 476 Part 6 & 7 and ASTM E84																			
Maximum air velocity	20.3 m/s (4000fpm)																					
VOC level	<4 μ g/m ² /hr		(as per ASTM D5116)																			
Antifungal	Yes		as per ASTM G21																			

Aerofoam Acoustic Silent Floor - sheet (AA SF - 3,5,8,10mm)

Property	Value/ Assesment				Tested acc. to:
Color	blue (other colors on request)				
Available size	1,2mx20m (+/-20mm tolerance)				
Available thickness	3,5,8,10mm (-1mm+1.5mm tolerance)				
Density of foam	25 kg/m ³ (+/-10% tolerance)				
Max. load	400kg/m ²				
Water asorption	0.05%				BS EN 12087:1997
Impact sound reduction improvement Δ L	3mm 15dB	5mm 19dB	8mm 21dB	10mm 24dB	ASTM E 1007 ISO 140-7

PRODUCT	APPLICATION							
	Waste Water pipes/industrial pipelines	Air Ducts inside	Air Ducts Outside	Sound Attenuators	Partition Walls	Floating floor	Fan/compressor housing	Pump/ engine casing
AA HD High Mass Barrier	Yes		Yes		Yes	Yes	Yes	Yes
AA DS Acoustic Lagging	Yes		Yes		Yes		Yes	Yes
AA LX Acoustic Liner (XLPE Based)		Yes		Yes			Yes	Yes
AA LN Acoustic Liner (NBR Based)		Yes		Yes			Yes	Yes
AA SF Acoustic Silent Floor						Yes		

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