

# ArmaSound®

SuperSilence Ductliner

HIGH PERFORMANCE ACOUSTIC  
INSULATION FOR A QUIETER  
ENVIRONMENT



- Reduces duct and plant room noise substantially
- 24x7 active anti-microbial protection for better IAQ
- Quick and easy installation - no bitumen, tissue paper or perforated sheet required
- Non- fibrous, no fiber migration

- Extremely high noise absorption per unit thickness
- Built-in 'Microban' protection for product lifetime
- High density to dampen duct rattling & vibration
- High Air Erosion Resistance - up to 10,000 fpm



# Technical Data - ArmaSound® SuperSilence Ductliner

Brief Description	Fibre Free, Super Silent & Microbe resistant easy to apply acoustic insulation material, with very good sound absorption, damping and barrier properties
Material Type	Open cell Elastomeric foam, based on synthetic rubber (NBR)
Colour	Black
Product Range	Available in sheets, in 6 mm, 10 mm, 15 mm, 20 mm, 25 mm, 30 mm, 40 mm & 50 mm thickness . Standard Sheet size - 1 m x 1 m Available in sheets with self adhesive in 6 mm, 10 mm, 15 mm & 20 mm thickness.
Applications	Acoustic insulation for HVAC ducts, air handling systems, plant rooms and architectural acoustics
Special Features	Super Silent, made with Microban®* - Anti-microbial product protection, and easy to install

Property	Value/Assessment								Special Remark
Temperature Range									
Temperature Range	max. service temperature			+ 85 °C	(Min. Temperature in case of Self-Adhesive Sheets will be 0 °C.)			Tested acc. to EN 14706 and EN 14304	
	min. service temperature			- 20 °C					
Thermal Conductivity									
Thermal Conductivity	$\vartheta_m$			0	+20	[°C]		Tested acc. to EN 12667	
	$\lambda$	≤		0.045	0.047	W/(m · K)			
Fire Performance									
Reaction to Fire	Surface spread of flames			Class 1			Tested acc. to BS 476, Part 7		
Other Fire Class	Flammability			UL 94 - HB, V - 0			Tested acc. to UL 94		
Practical Fire Behavior	Self-extinguishing, does not drip and does not spread flames								
Acoustic Performance									
Weighted sound absorption coefficient $\alpha_w$	Practical sound absorption coefficient $\alpha_p$								
Frequency (Hz)	<b>Thickness</b>	<b>125</b>	<b>250</b>	<b>500</b>	<b>1000</b>	<b>2000</b>	<b>4000</b>	(acc. To BS EN ISO 354:2003)	
	<b>6 mm</b>	0	0.05	0.1	0.25	0.55	1		
	<b>10 mm</b>	0	0.05	0.15	0.4	0.85	1		
	<b>15 mm</b>	0	0.1	0.3	0.75	1	0.9		
	<b>20 mm</b>	0.05	0.15	0.4	0.9	1	0.95		
	<b>25 mm</b>	0.05	0.25	0.85	1	0.9	0.95		
	<b>30 mm</b>	0.1	0.35	0.95	1	0.95	1		
	<b>40 mm</b>	0.15	0.5	1	0.9	0.95	0.95		
	<b>50 mm</b>	0.25	0.75	1	1	1	1		
	<b>Thickness</b>	<b>6 mm</b>	<b>10 mm</b>	<b>15 mm</b>	<b>20 mm</b>	<b>25 mm</b>	<b>30 mm</b>		
$\alpha_w$	0.2	0.25	0.35	0.4	0.55	0.65	0.8	1	
Class	E	E	D	D	D	C	B	A	
NRC	0.2	0.35	0.55	0.6	0.8	0.85	0.85	1.05	
Density	Available in range between 140 and 180 Kg/m <sup>3</sup>								
UV Resistance	Shall be protected from direct Sunlight. For outdoors Arma-Chek covering systems shall be applied within 2 days of installation.								
Health Aspects	Dust & Fibre free								
Storage & Shelf life	Shall be stored away from direct Sunlight								
Antimicrobial Behaviour	In-built Microban® active antimicrobial protection: No bacterial growth								Tested acc. to DIN EN ISO 846 METHOD A METHOD C
	<ul style="list-style-type: none"> <li>• No Fungal Growth visible with the naked eye</li> <li>• No Bacterial Growth</li> </ul>								
Air Erosion Resistance	No erosion, cracking or delamination at air velocity of 10,000 fpm								Tested acc. to ASTM C 1071-05

\*Microban is EPA (Environment Protection Agency), USA Approved.

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. Installation instructions are available in our ArmaSound installation manual.

# ARMASOUND APPLICATION AREAS

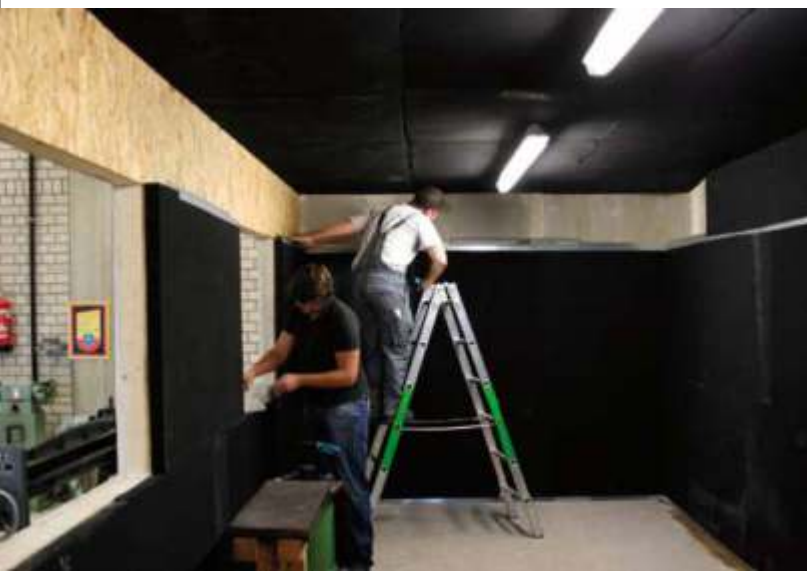


## ACOUSTIC DUCT LINING

- Ducting systems are prone to being noisy and can result in great disturbance throughout the building as the noise/vibrations travels through the ducts
- ArmaSound Super Silence Ducliner application on ducts substantially reduces the noise carriage
- It also helps in dampening the duct rattling thereby resulting in a quieter atmosphere in the interiors

## PLANT ROOM

- Plant Room machineries generate a lot of noise which can be very hazardous to workers in adjacent areas
- ArmaSound substantially reduces the machine generated noise and helps in creating better working atmosphere
- ArmaSound is also available in 240 kg/m<sup>3</sup> for critical applications



## ROOM ACOUSTICS

- Quiet work areas are a important requisite nowadays in various areas of commercial buildings
- ArmaSound has a open cell structure which helps in reducing the dB levels across work areas
- It also dampens vibration in the ducts and helps in quieter room ambience

## GENERATOR ROOMS

- Generators generate a lot of noise and can result in disturbance in surrounding areas and into the building
- ArmaSound application to the Generator Rooms helps reduce the noise carriage and transmission thereby resulting in better working conditions



## HOME THEATRE ACOUSTIC INSULATION

- Home theatres need excellent acoustic room specifications for best experience
- ArmaSound Super Silence Ductliner covers the acoustic insulation needs perfectly and gives a super-silent atmosphere for a comfortable viewing area
- ArmaSound Super Silence Ductliner can be converted to acoustic tiles of different finish for Architecture acoustics

## CINEMA THEATRE ACOUSTICS

- Cinema theatres are privy to elevated sound levels and bad acoustics can ruin the entire viewing experience
- ArmaSound insulation helps in ensuring proper sound absorption for the viewing area thus helping avoid any sound anomalies for an excellent viewing experience



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