



AEROSOUND[®]

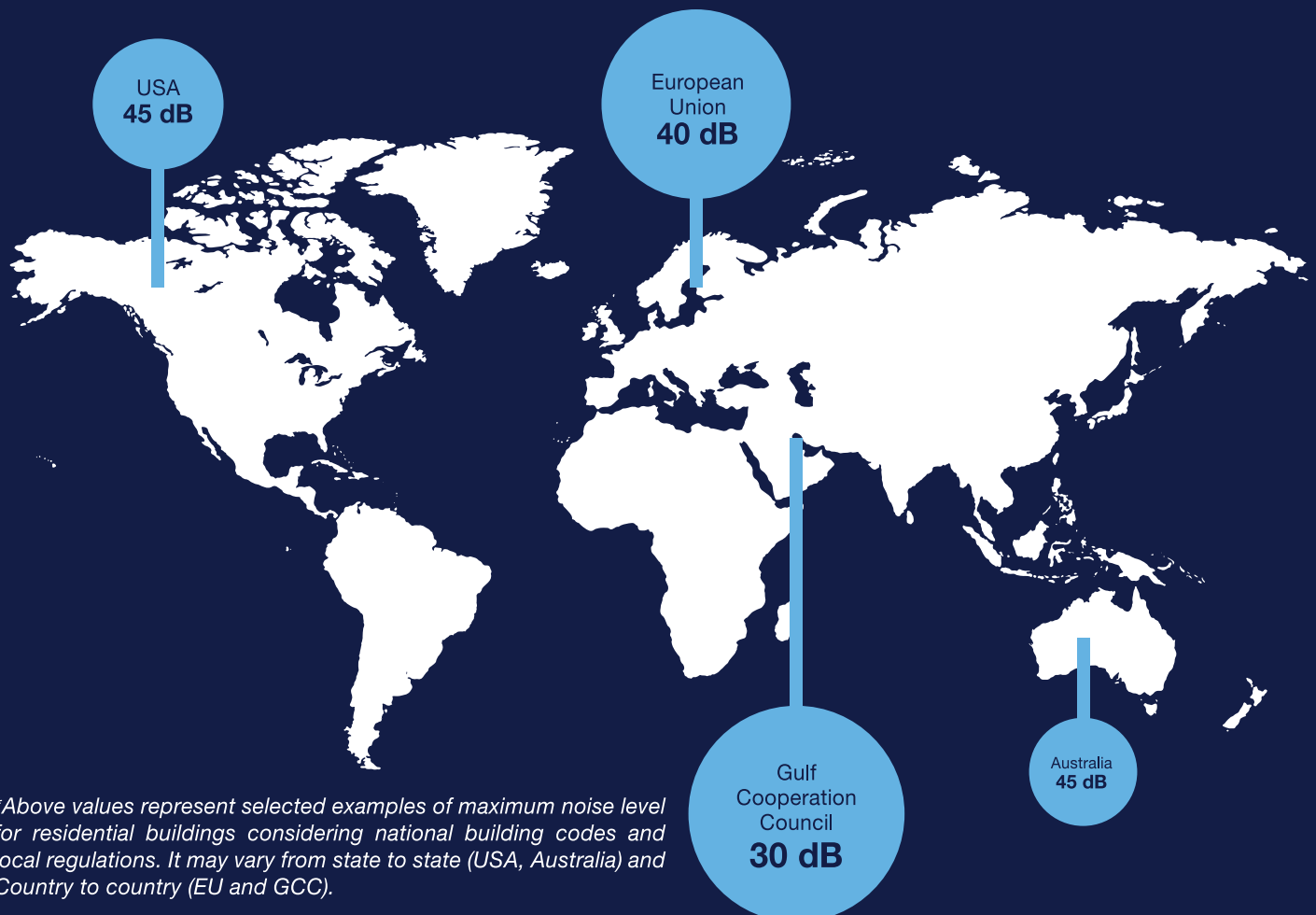
 www.aerofoam.ae

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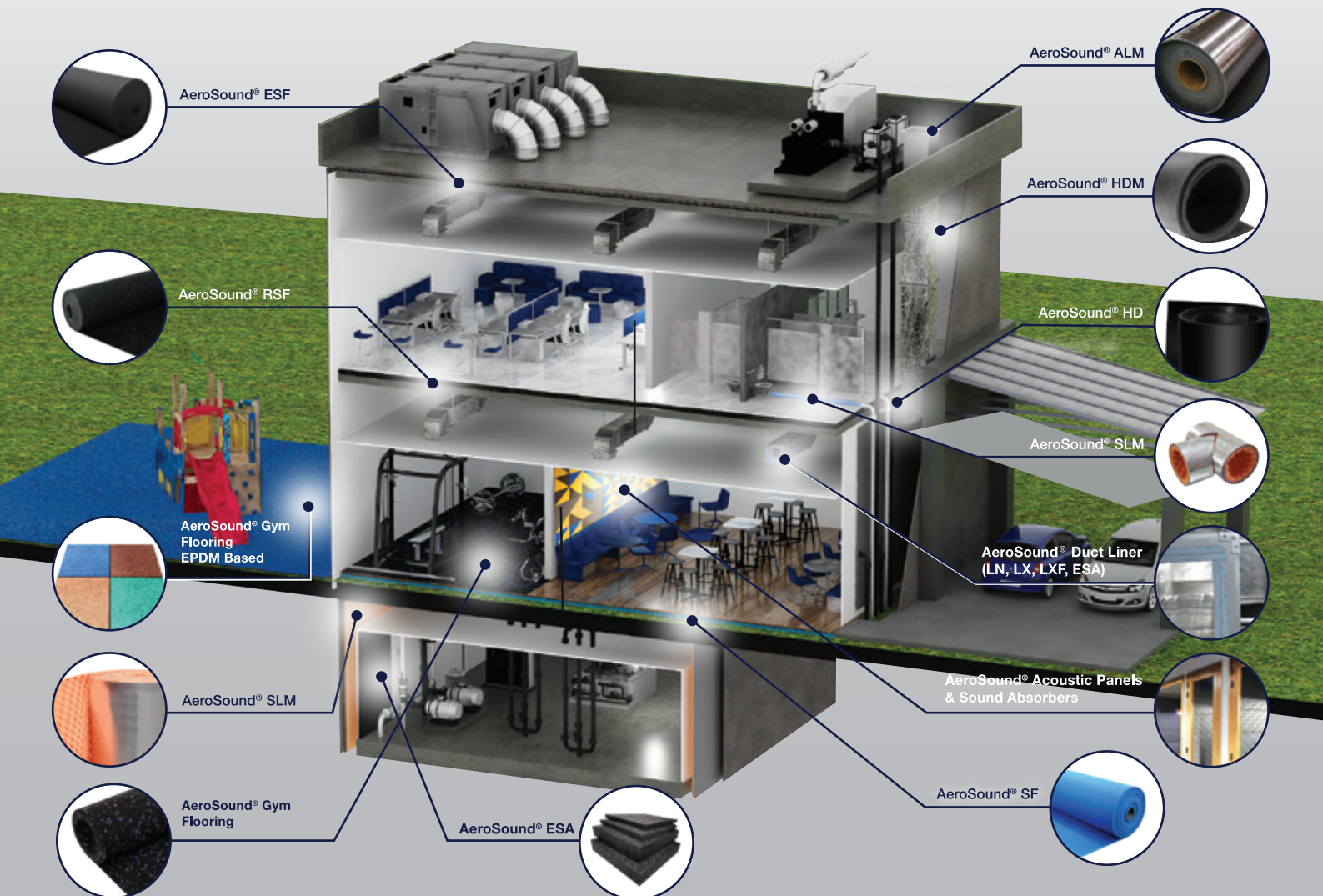
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DID YOU KNOW?

International building codes indicate minimum requirements for design, construction and operations of buildings. That includes acoustic comfort of building's end users. Each country may follow their own standards for maximum allowable noise level in residential buildings, hotels, schools, etc.



Annoyed by the loud noises in your building? It's time to take noise pollution seriously!



Noise pollution can have adverse effects on all of us. Constant exposure to loud noise or impact sound can cause increased tiredness, lack of concentration, disturbed sleep and compromised acoustic comfort of building users. Sound reduction solutions should be considered during design and construction stage to assure the highest performance.

AeroSound® Acoustic Solutions are designed to absorb or block the unwanted sound in your building. Properly selected material can control impact noise or airborne sound depending on the application, which as a result provides necessary acoustic comfort for the residents of the building.

AEROSOUND[®]

Duct Liners & Sound Absorbers

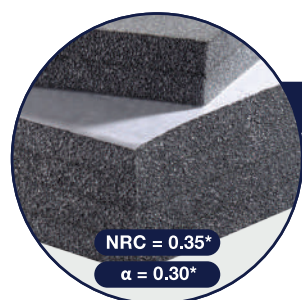


Acoustic absorbers and duct liners are designed especially to absorb unwanted airborne sound from multiple sources.

AEROSOUND[®]

Acoustic Duct Liners & Sound Absorbers

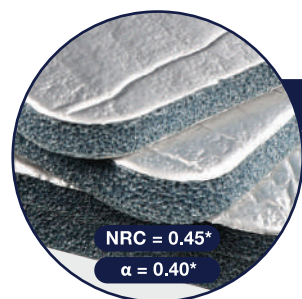
AeroSound[®] Duct Liners are a wide range of sound absorbers developed to reduce noise in different applications. Advanced technologies utilized during the manufacturing of AeroSound[®] Duct Liners assure high quality of materials which are durable, easy to install, safe, hygienic and odor free.



AeroSound[®] LX

Polyolefin based
Semi open cell
With or without self-adhesive
*Applicable for 25 mm.

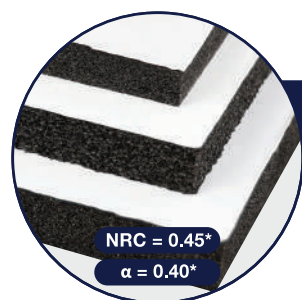
NRC = 0.35*
 $\alpha = 0.30^*$



AeroSound[®] LXF

Polyolefin based
Aluminum foil facer
Semi open cell
With or without self-adhesive
*Applicable for 25 mm.

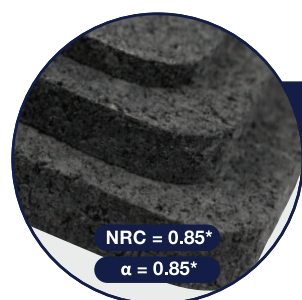
NRC = 0.45*
 $\alpha = 0.40^*$



AeroSound[®] LN

Elastomeric based
Semi open cell
With or without self-adhesive
*Applicable for 25 mm.

NRC = 0.45*
 $\alpha = 0.40^*$
















AeroSound[®] ESA








Elastomeric based
Open cell
With or without self-adhesive
*Applicable for 50 mm.

NRC = 0.85*
 $\alpha = 0.85^*$

FEATURES

-  Excellent sound absorption
-  Dust and fiber free
-  Does not absorb unwanted odors
-  Hygienic & easy to clean
-  Safe to handle
-  Easy to install
-  Resistant to water & cleaning detergents
-  Resistant to bacteria
-  Resistant to mold and mildew
-  Excellent thermal properties
-  Lightweight
-  Long technical life
-  Environment friendly

APPLICATIONS

-  Duct liners
-  Wall partitions
-  Decorative acoustic panels
-  Machinery casing
-  Operating cabins
-  Silencers
-  Decompression Plenum boxes

ACCESSORIES

Accessories are available with or without self-adhesive layer. Additional accessories are not required. For easy installation, remove the release liner and glue the material to the surface. Refer to AeroSound[®] Installation Manual for more information.

TECHNICAL PROPERTIES

		AeroSound® LX XLPE Plain			AeroSound® LXF XLPE with foil			AeroSound® LN Elastomeric			AeroSound® ESA Elastomeric			
Properties		Value/Assessment											Tested acc. to:	
Acoustic	Noise Reduction Coefficient (NRC) α_w	Thickness	NRC	α_w	Thickness	NRC	α_w	Thickness	NRC	α_w	Thickness	NRC	α_w	ISO 354
		15 mm	0.35	0.20	15 mm	0.25	0.20	13 mm	0.35	0.30	10 mm	0.35	0.25	
		25 mm	0.35	0.30	25 mm	0.45	0.40	15 mm	0.45	0.40	15 mm	0.55	0.35	
								25 mm	0.45	0.45	25 mm	0.70	0.50	
										50 mm	0.85	0.85		
Other	Density of foam	30 kg/m³ (±10% tol.)			30 kg/m³ (±10% tol.)			60 kg/m³ (±10% tol.)			ESA 160 - above 120 kg/m³ ESA 240 - 220 to 260 kg/m³			
	Thermal Conductivity	0.036 W/m•K at 23 °C			0.036 W/m•K at 23 °C			0.033 W/m•K at 23 °C			0.041 W/m•K at 23 °C			ASTM C518
	Reaction to fire	<0.5 mg.m³			Class 0						Class 1			BS 476 Part 6 & 7
	Class A										ASTM E84			
	VOC level	<0.5 mg.m³			<0.5 mg.m³									ASTM D5116
	Water absorption	2.03% - 2.7%			2.03% - 2.7%			0.28% - 0.99%						ASTM D570
	Max. operating temp.	105 °C, +85 °C (adhesive)			105 °C, +85 °C (adhesive)			110 °C, +85 °C (adhesive)			105 °C, +85 °C (adhesive)			ASTM C411
	Max. air velocity	25.4 m/s (5000 fpm)												Internal test
Antifungal	Yes												ASTM G21	
Physical	Color	Gray			Blue-Gray			Black			Black-Gray			
	Available size	12 mm - 1.2 m x 20 m (W: ±20 mm; L: ±50 mm tolerance)			12 mm - 1.2 m x 20 m (W: ±20 mm; L: ±50 mm tolerance)			13 mm - 1 m x 12 m (W: ±20 mm; L: ±50 mm tolerance)			1 m x 1 m (±20 mm tolerance)			
		15 mm - 1.2 m x 20 m (W: ±20 mm; L: ±50 mm tolerance)			15 mm - 1.2 m x 20 m (W: ±20 mm; L: ±50 mm tolerance)			15 mm - 1 m x 12 m (W: ±20 mm; L: ±50 mm tolerance)						
		20 mm - 1.2 m x 20 m (W: ±20 mm; L: ±50 mm tolerance)			20 mm - 1.2 m x 20 m (W: ±20 mm; L: ±50 mm tolerance)			19 mm - 1 m x 10 m (W: ±20 mm; L: ±50 mm tolerance)						
		25 mm - 1.2 m x 2.4 m (W: ±20 mm; L: ±50 mm tolerance)			25 mm - 1.2 m x 2.4 m (W: ±20 mm; L: ±50 mm tolerance)			25 mm - 1 m x 8 m (W: ±20 mm; L: ±50 mm tolerance)						
	Thickness	12,13,15, 20, 25 mm (-1 mm + 1.5 mm tolerance), other thicknesses are available upon request										6, 10, 15, 20, 25, 30, 40, 50 mm		

EXAMPLE OF APPLICATIONS

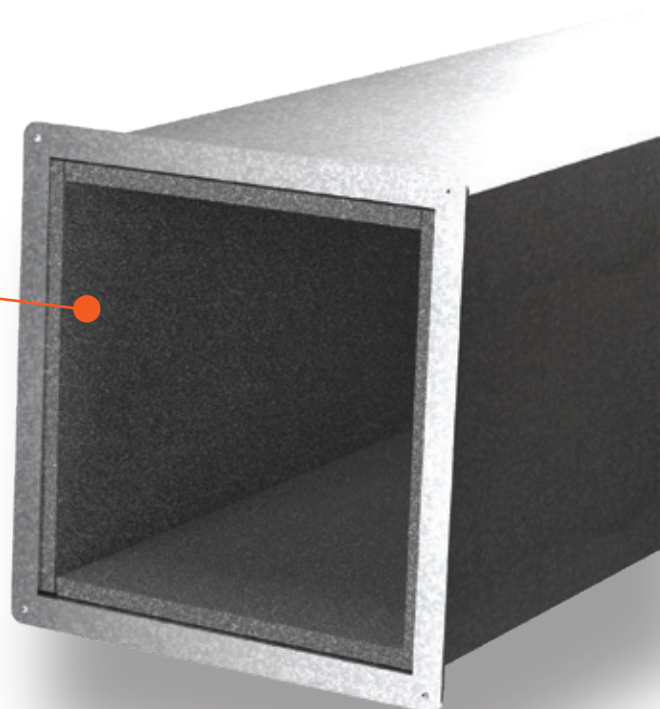
AeroSound® Duct Liners are easy to install and do not require use of any additional accessories as they are supplied a self adhesive layer. Additionally, they pose no harm to installers as they are free of fiber and dust.

1. Cut the sheets into the desired size and shape
2. Remove the release liner
3. Glue the material to the surface

Refer to AeroSound® Installation Manual for more information.



Scan the QR code to view the installation manual.



How to calculate the final noise output?
AeroSound® Acoustic Software can be used to calculate the final approximate noise level from ventilation and air conditioning duct systems while using selected thickness of AeroSound® Duct Liners.

Visit our website: www.aerofoam.ae

Scan the QR code to download the desktop app.



OTHER EXAMPLES OF APPLICATIONS

Generators



Air Handling Units



Engine Compartments

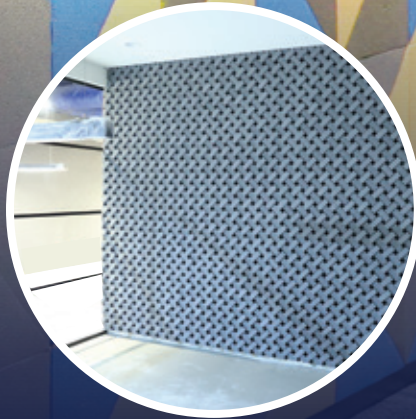


Special Utility Vehicle



AEROSOUND[®]

Acoustic Panels



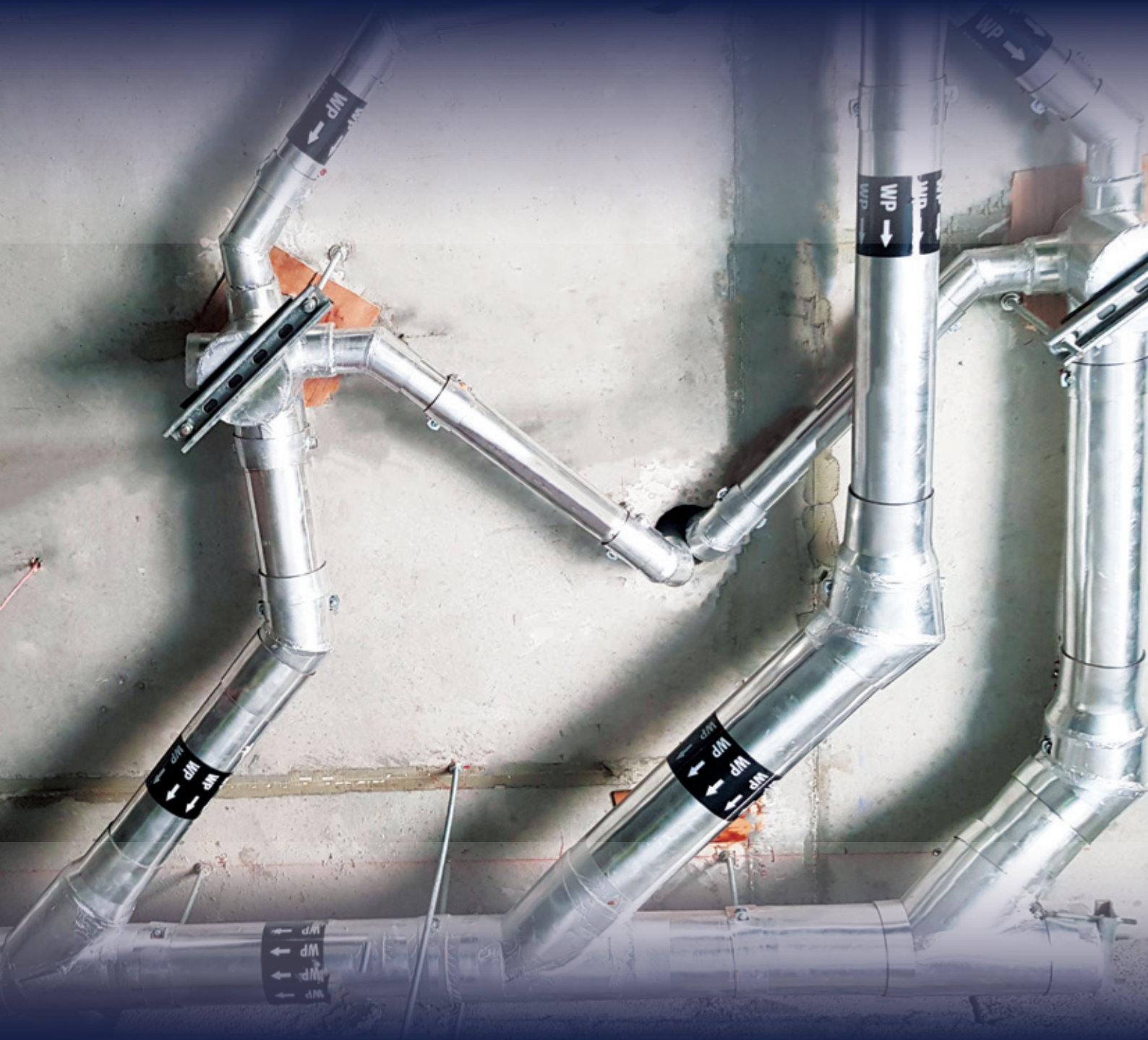
Acoustic panels can be highly effective solutions at solving acoustic issues that can be observed in offices, schools, auditoriums, restaurants, hotels, meeting rooms, or any other place where large amount of people are situated.

AeroSound[®] Acoustic Panels are not only great sound absorbers that can be placed on the walls or ceilings, but can also be considered as personalized décor in your surroundings!

The solutions can be customized to a variety of sizes, colors, shapes and designs! Moreover, it they can be part of interior design and can be custom manufactured as per the designers concept.

AEROSOUND[®]

Sound Lagging Material & Barriers



Sound lagging materials and sound barriers help block unwanted sound and noise from wastewater and drain pipes but also create walls, ceilings, or enclosures that are soundproof for noisy equipment.

AEROSOUND[®]

Sound Lagging Material & Sound Barriers

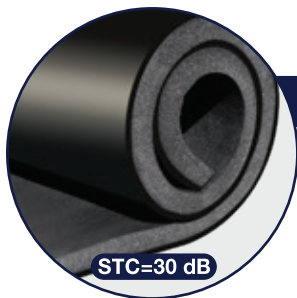
AeroSound[®] Sound Lagging Materials are designed to reduce sound propagation coming from various sources. They have been designed for covering wastewater of drainage pipes, but act as an excellent sound barrier that can be installed as an additional layer for wall partitions.



AeroSound[®] SLM

Convoluted PU foam
Bonded to flexible MLV (mass loaded vinyl) acoustic barrier
With pure aluminum foil facer
Available with glasswool (AeroSound[®] SLM/GW)

STC=30 dB











AeroSound[®] SL+

Semi open cell elastomeric foam
Bonded to solid high mass rubber








STC=30 dB



FEATURES

-  Excellent acoustic properties
-  Dust & fiber free
-  Safe to handle
-  Easy to install
-  Hygienic & easy to clean
-  Excellent thermal properties
-  Long technical life
-  Environment friendly

APPLICATIONS

-  Wastewater pipes
-  Garbage chutes
-  Engine compartments
-  Air ducts (outer surface)
-  Wall partitions
-  Ventilation fans coverings
-  Compressor units' coverings
-  Machinery castings

ACCESSORIES

Tapes & Adhesive



Templates



Refer to AeroSound[®] Installation Manual for more information.

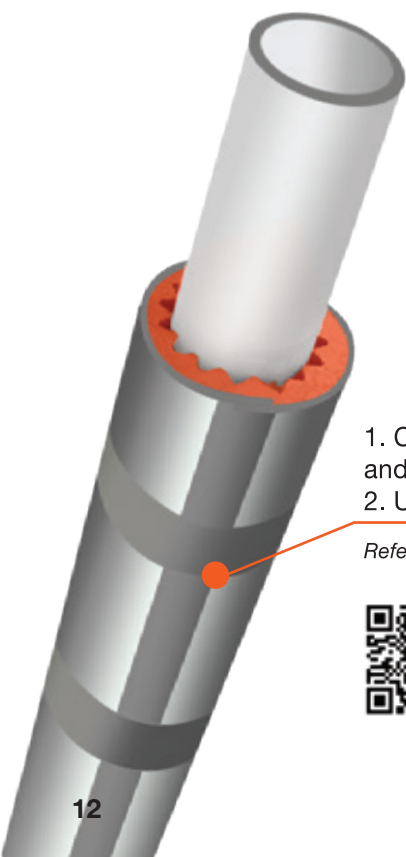
TECHNICAL PROPERTIES

		AeroSound® SLM	AeroSound® SL+	
Properties		Value/Assessment		Tested acc. to:
Acoustic	Sound Transmission Class (STC)	30 dB	30 dB	ASTM E90 ASTM E413
	Sound Reduction Index R_w	(C;Ctr) = 30 dB (-1; -4) dB	(C;Ctr) = 30 dB (-1; -4) dB	EN ISO 10140-2
	Wastewater Sound Reduction	12 dB to 17 dB	12 dB to 17 dB	EN ISO 14366
Other	Operating temperature	-40 °C to +100 °C	-40 °C to +100 °C	
	Thermal conductivity	0.042 W/m•K at 23 °C		ASTM C518
	Reaction to fire	FSI<25, SDI<50		ASTM E84
		Class 0	Class 0	BS 476 Part 6 & 7
		Ignitability - 0 Flame propagation - 0 Heat release - 0 Smoke developed index - 1		AS 1530.3
	TVOC - Emission rate	<0.5 mg/m²/hr		ASTM D5116
Physical	CFC, HCFC, dust, fibers & asbestos	Free	Free	
	Color	Foam - orange Barrier - silver	Foam - black Barrier - black	
	Size	W: 1350 mm (±20 mm) L: 2.5 m & 5 M (±50 mm)	1 m x 1 m or 1 m x 2 m (W: ±20 mm, L: ±50 mm)	
	Thickness	25 mm (±5 mm)	8, 13, 20, 25 mm (±1.5 mm)	
	Weight	4.5 ÷ 5 kg/m²	From 5.27 kg/m² to 6.3 kg/m² <small>(depending on thickness)</small>	
	Customized Weight	2.5 kg/m², 3 kg/m², 6 kg/m², 8 kg/m²*		
	Density		Density of foam: 45-65 kg/m³ Density of solid rubber: 1560-2000 kg/m³	depending on thickness

*Customized product weight upon request, thickness of the MLV barrier will be adjusted accordingly (1.2 mm ÷ 5 mm).

EXAMPLE OF APPLICATIONS

1. Wastewater pipe



1. Apply the material over the metal frame

2. Close the structure with gypsum board

1. Cut the sheets into the desired size and shape and apply it over the surface.
2. Use tape to cover the joints.

Refer to AeroSound® Installation Manual for more information.

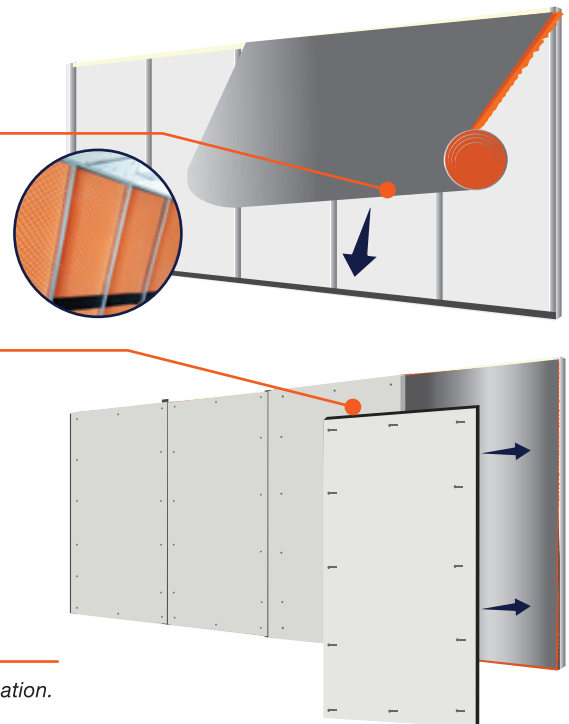


Scan to watch installation video



Scan the QR code to view the installation manual.

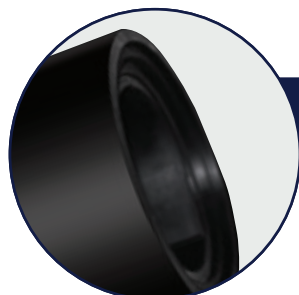
2. Wall partitions



AEROSOUND®

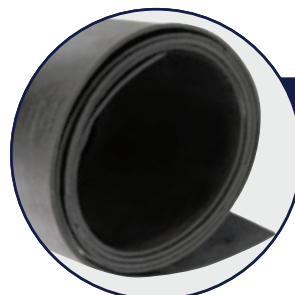
Acoustic Barriers

AeroSound® Acoustic Barriers are designed to reduce sound transmission. It can be installed by itself or along with other AeroSound® products. Especially recommended for industrial/automotive applications and machinery where high mechanical strength of material is expected.



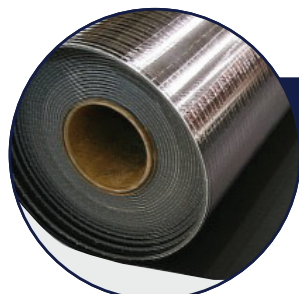
AeroSound® HD

Solid flexible rubber



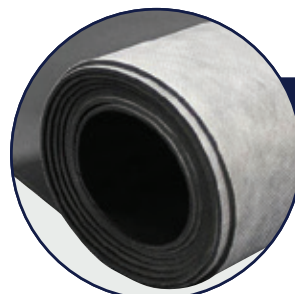
AeroSound® HDM

Flexible MLV
(Mass Loaded Vinyl)



AeroSound® ALM


Flexible MLV
(Mass Loaded Vinyl)
With aluminum foil facing




AeroSound® RFM


Flexible MLV
(Mass Loaded Vinyl)
Reinforced with non-woven
fiber glass cloth

FEATURES


 Excellent acoustic properties

 Dust & fiber free


 Safe to handle

 Easy to install

 Flexible

 Hygienic & easy to clean

 Resistant to chemicals

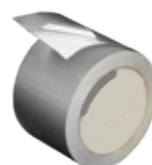
 Long technical life

 Environment friendly

	AeroSound® HD	AeroSound® HDM	AeroSound® ALM	AeroSound® RFM
Properties				
Thickness	3 mm	4 mm	2-4 mm	2-4 mm
Size	1 m x 1 m 1 m x 2 m	1350 mm x 3 m 1350 mm x 5 m	1350 mm x 2,5 m 1350 mm x 5 m	1350 mm x 2,5 m 1350 mm x 5 m
Weight	4,5-5 kg/m ²	7,5-8 kg/m ²	5 kg/m ²	5 kg/m ²

ACCESSORIES

Tapes & Adhesive



Refer to AeroSound® Installation Manual for more information.

EXAMPLES OF APPLICATIONS

Wastewater Pipe








Engine Compartments

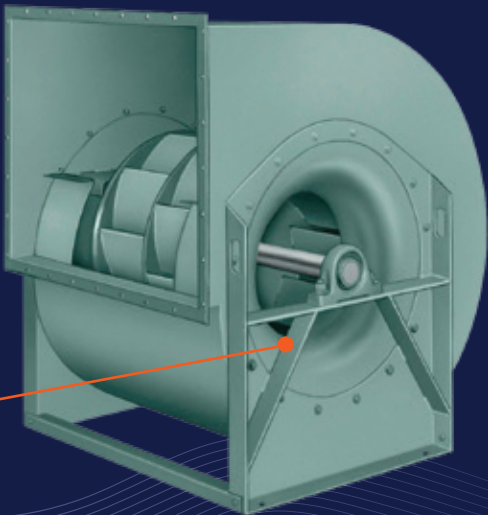
Machinery Case



APPLICATIONS

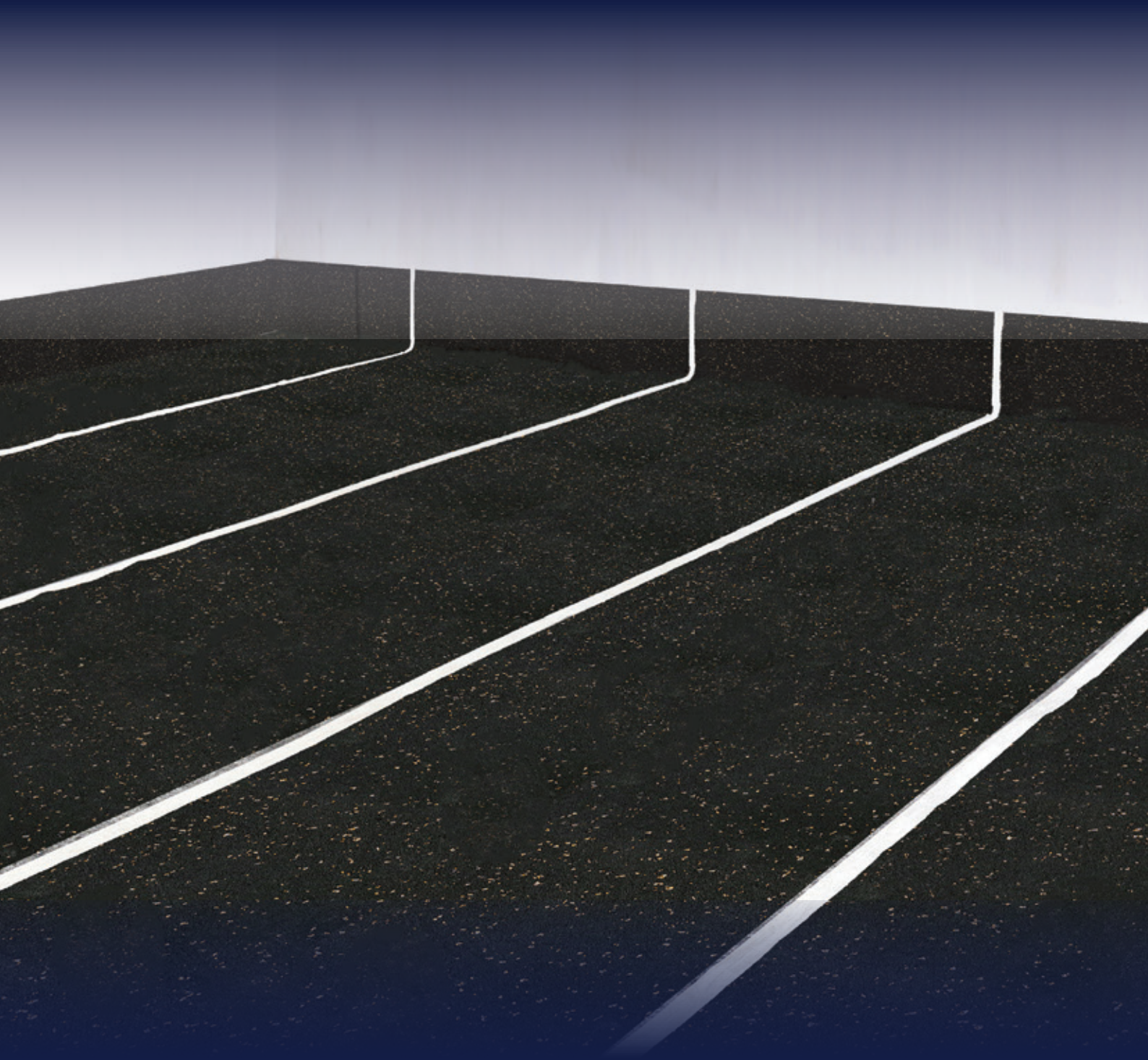
-  Wastewater pipes
-  Garbage chutes
-  Engine compartments
-  Air ducts (outer surface)
-  Wall partitions
-  Ventilation fans coverings
-  Compressor units' coverings
-  Machinery castings

Ventilation Fan Covering



AEROSOUND[®]

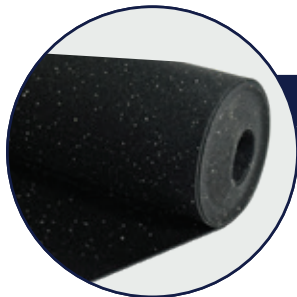
Acoustic Floor Underlay



Floor Underlay are designed to reduce impact sound transmission in flooring systems.

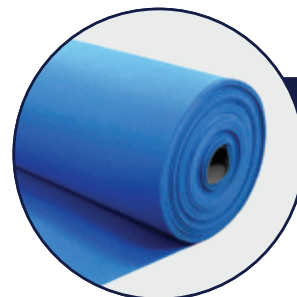
Acoustic Floor Underlay

AeroSound[®] Floor Underlay are designed to reduce impact noise transfer within the building structure to avoid propagation of structural sound while using a combination of AeroSound[®] Underlay and AeroSound[®] Perimetric Tapes.



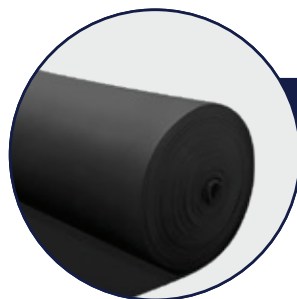
AeroSound[®] RSF

Elastomeric rubber mat
with recycled rubber content



AeroSound[®] SF

Cross-linked
Closed cell
Polyolefin foam



AeroSound[®] ESF

Closed cell
Elastomeric foam

FEATURES

-  Long lifespan
-  Environment friendly
-  Does not absorb water
-  Excellent acoustic properties
-  Helps to protect screed from cracking
-  Resistant to bacteria, mold & fungi growth

APPLICATIONS

-  Gyms, clubs & dancing floors
-  Hotels, offices & medical facilities
-  Recording studios & movie theaters
-  Industrial buildings & machinery foundation
-  Automotive industry - wheel arch & chassis
-  Residential, commercial & high-rise buildings
-  Sports court & running track

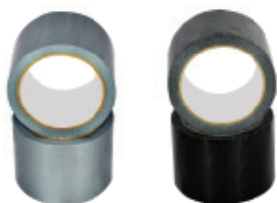
TECHNICAL PROPERTIES

	AeroSound® SF	AeroSound® ESF	AeroSound® RSF	
Properties	Value/Assessment			Tested acc. to:
Material type	Cross-linked polyolefin foam	Flexible elastomeric foam	Elastomeric rubber mat with recycled rubber content	
Color	Blue	Black	Black/Anthracite/Orange	
Thicknesses*	3, 5, 8, 10 mm	3, 5, 8, 10, 13 mm	2-12 mm	
Thickness tolerance	-1 mm / +1.5 mm		2-6 mm: ±0.3 mm	
			7-12 mm: ±0.5 mm	
Size	W: 1.2 m L: 20 m	W: 1 m L: 8-30 m	W: 1.2 m L: 5-10 m	
Size tolerance	W: ±20 mm L: ±50 mm			
Recycled content	No	No	Yes	
Dynamic stiffness	64.3 MN/m³ (3 mm)	59.27 MN/m³ (10 mm)	73 MN/m³ (3 mm)	
Maximum load	400 kg/m²	400 kg/m²	3000 kg/m²	
Tensile strength at peak load	0.82 kg/m²	2.71 kg/m²	3.48 kg/m²	ASTM D412/ ASTM D751
Elongation break	36.37%	128.87%	47.5%	ASTM D412/ ASTM D751
Compressibility	84%	94.06%	93.7%	ASTM D3575/ ASTM F3616
Hardness, Shore A	11-17	15-18	65-69	ASTM D2240
Temperature range	-80 °C to +105 °C	-80 °C to +110 °C	-30 °C to +85 °C	
Thermal Conductivity at 23 °C	0.035 W/m•K	0.033 W/m•K	0.106 W/m•K	ASTM C518
Water absorption	0.013 g/cm²	0.09 g/cm²	0.009 g/cm²	JIS K 6767
Chemical resistance	Yes			
Resistance to fungi	Pass			ASTM G21
Resistance to bacteria	Pass			ISO 22196
ODP, GDP	ODP=0, GDP <5			
VOC			≤160 µg/m²hr	ASTM D5116
Puncture testing			91.44 cm	ASTM F924
Rolling load			Pass (at 500 cycles)	EN 985

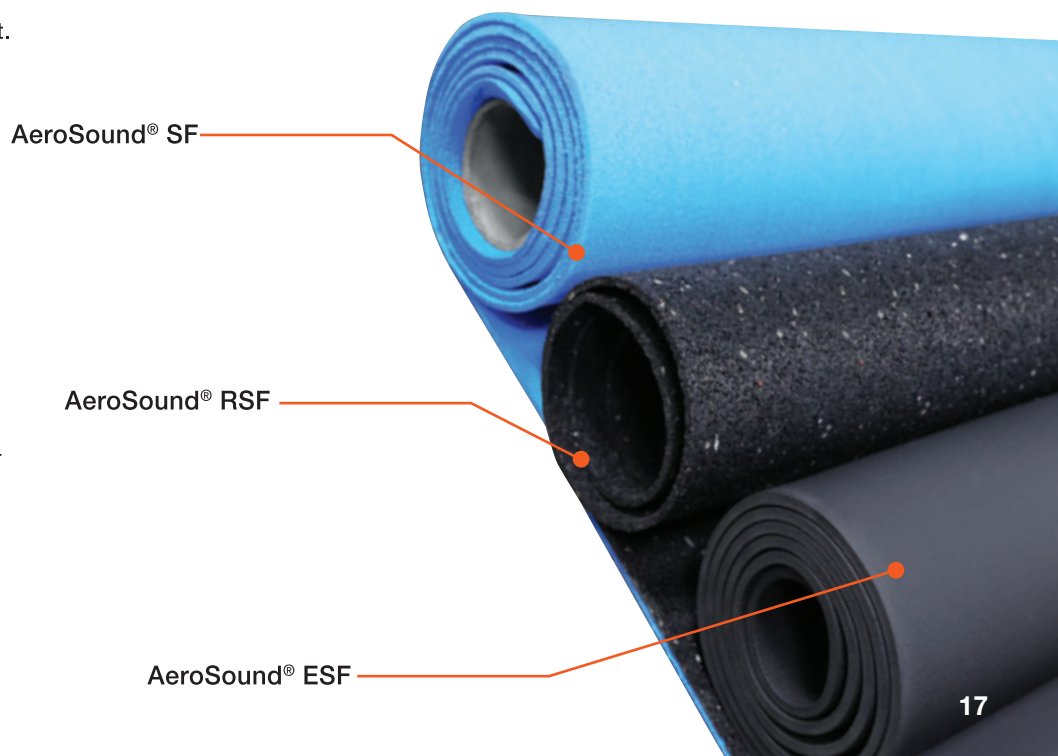
*Other thicknesses available upon request.

ACCESSORIES

Tapes & Adhesive



Refer to AeroSound® Installation Manual for more information.



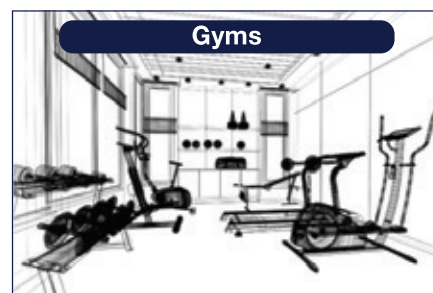
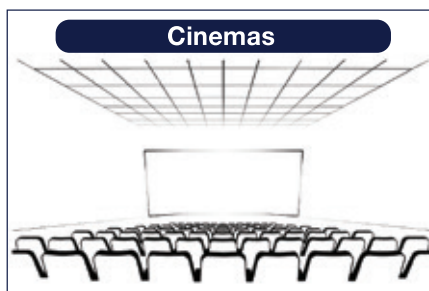
AeroSound® SF

AeroSound® RSF

AeroSound® ESF

EXAMPLES OF APPLICATIONS

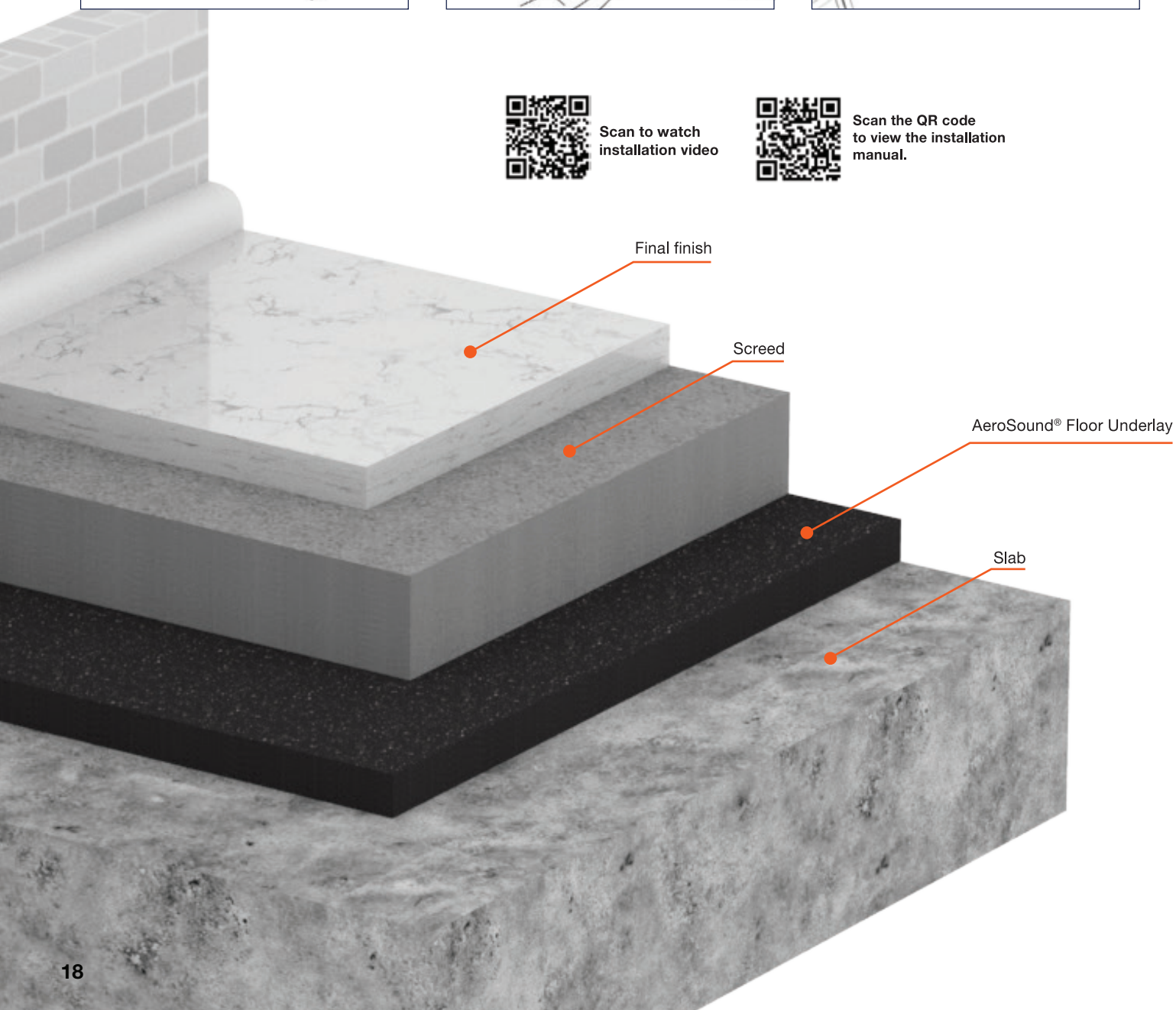
AeroSound® Floor Underlay can be installed in many different configurations and applications. Usual application is to separate concrete slab from the screed or final finish. For more details, please refer to AeroSound® Floor Underlay Brochure and AeroSound® Installation Handbook.



Scan to watch
installation video

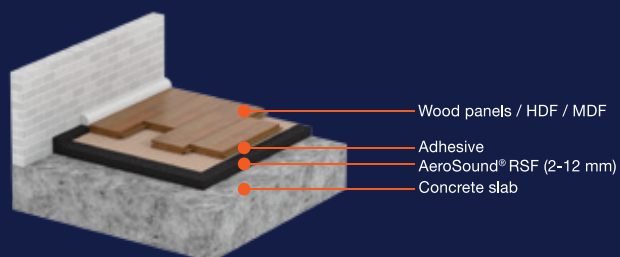
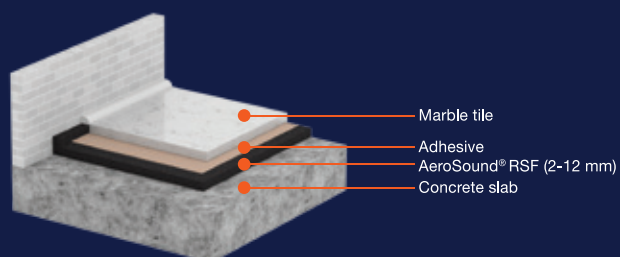
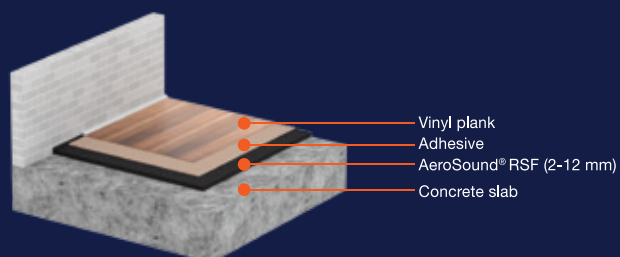
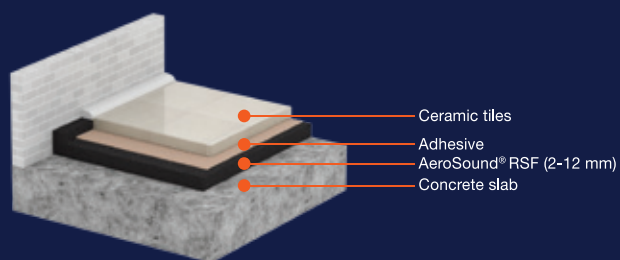


Scan the QR code
to view the installation
manual.



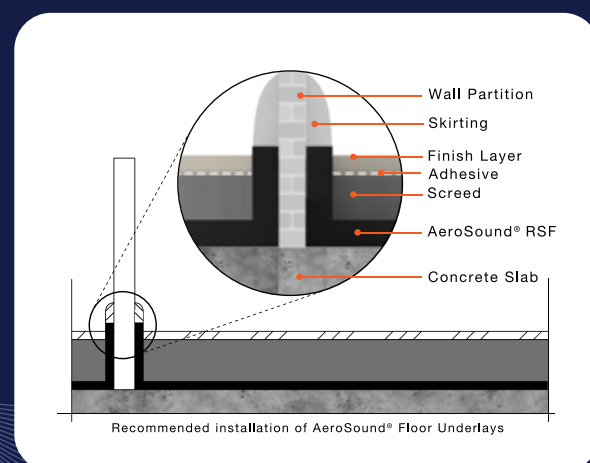
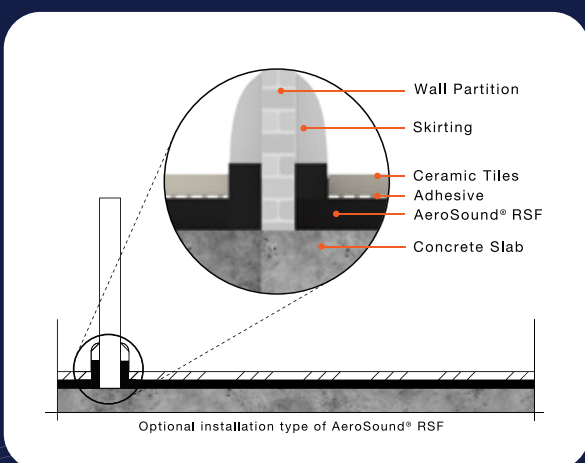
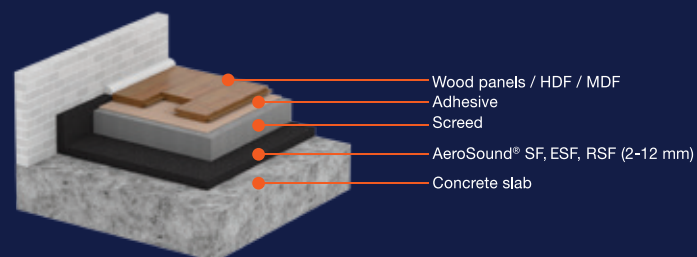
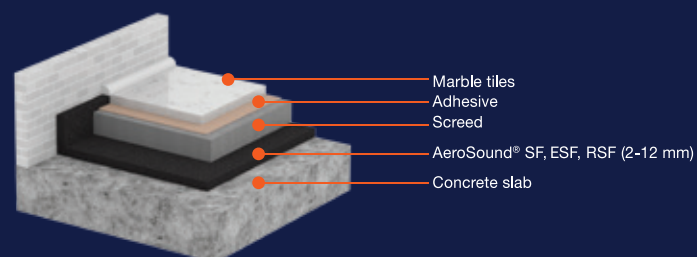
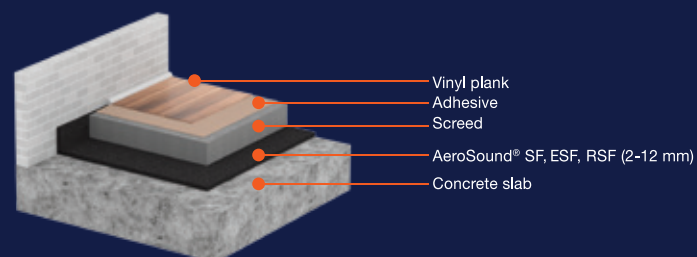
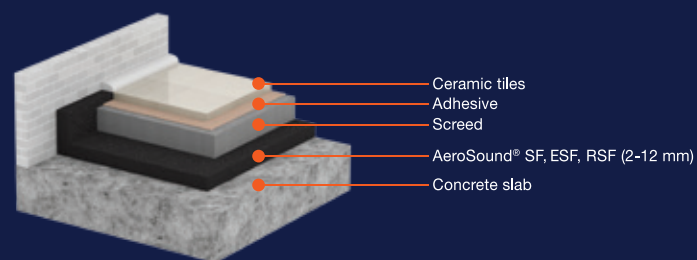
AeroSound® RSF

WITHOUT SCREED APPLICATIONS



AeroSound® SF, ESF & RSF

WITH SCREED APPLICATIONS



AEROSOUND[®] Gym Flooring



AeroSound[®] Gym Flooring provide excellent shock absorption and reduce impact sound transmission between floors.

Gym Flooring

AeroSound® Gym Flooring is a high density rubber flooring for all types of gym and workout areas. Depending on the product, AeroSound® Gym Flooring is a suitable solution for both indoor and outdoor applications, wherever extreme wear and tear is expected.

It provides excellent shock absorption for all types of workout activities but also reduces impact and sound transmission between floors. Availability of several product versions as well as customization, it can make your gym area not only unique, but also safe for its users!

FEATURES



High scuff resistance



Aesthetic finish



Easy to clean



High durability

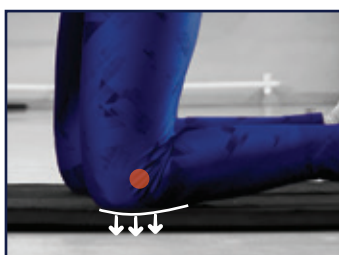


Long technical life

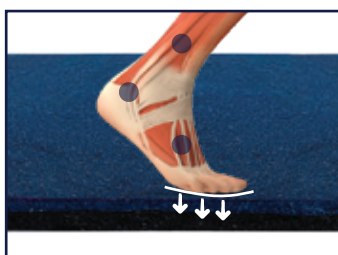


Non toxic formula

ADVANTAGES



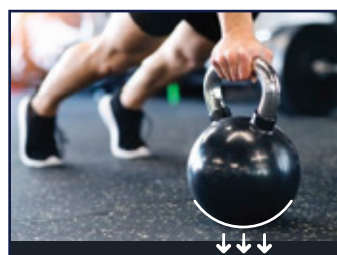
Reduce risk of injury during workout



Excellent shock absorption for joints & cartilage protection



Provides optimal grip & reduces risk of slip



High shock absorption & scuff resistance

AEROSOUND® GYM FLOORING RECOMMENDATIONS

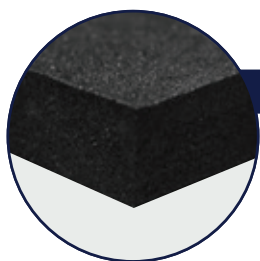
AeroSound® Gym Flooring Type	Area of application		Type of Workout/Activity Recommendations					
	Indoor	Outdoor	Fitness	Aerobics	Yoga / Pilates	Weightlifting	Functional Training	Playgrounds
HIIT	+		+	+	+			
Dynamic Flakes	+					+	+	+
Dynamic Star	+					+	+	+
Dynamic+	+	+				+	+	+
HIIT Flakes Tiles	+	+				+	+	+
HIIT Flakes	+	+	+	+	+			
Puzzle	+	+				+	+	+

TECHNICAL DETAILS

Property	Units	Tested acc.:	Indoor			Outdoor			
			Dynamic Star	Dynamic Flakes	HIIT	HIIT Flakes Tile	Dynamic+	Puzzle	HIIT Flakes
Density	kg/m³	-	1000	1000	1000	1400	1000	1100	1300
Hardness	Shore A	ASTM D2240	70 ±5	70 ±5	70 ±5	65 ±5	65 ±5	65 ±5	60 ±5
Tensile strength	kg/m²	ASTM D412	13	12	13.5	8	8	12	9
Elongation at break	%	ASTM D412	51	49	31	39	40	40	73
Tear strength	N/mm	ASTM D624	9	11.3	6.3	8.4	5	16.5	6.8
Heat resistant at 70 °C for 72 h	-	ASTM D573	Pass						
Change in hardness	Shore A	ASTM D2240	+5	+4	+4	+4	+5	+4	+4
Change in tensile strength	%	ASTM D412	-27.5	-25.5	-25	-27.6	-27.4	-25	-24.5
Change in elongation	%	ASTM D412	-35.7	-31.5	-33	-32.9	-35.7	-35	-31.7

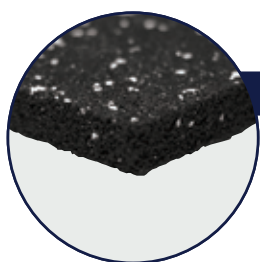
AeroSound® Gym Flooring SBR-based

Ideal solution for indoor workout areas!



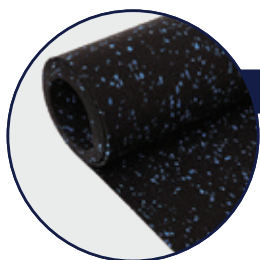
AeroSound® Dynamic Star

Thickness: 5-60 mm
Size: 1 m x 1 m, 0.5 m x 0.5 m
Color: Black tile



AeroSound® Dynamic Flakes

Thickness: 5-60 mm
Size: 1 m x 1 m, 0.5 m x 0.5 m
Color: Black tile with colored flakes



AeroSound® HIIT

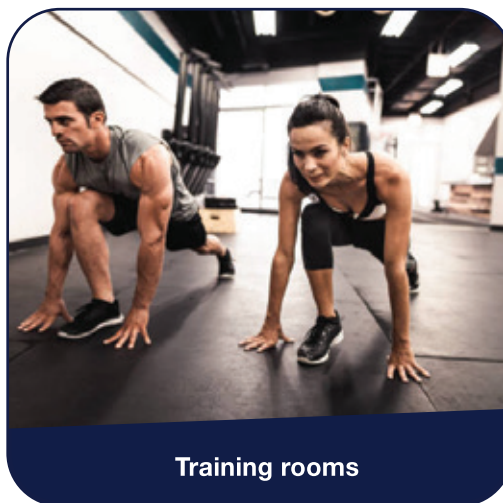
Thickness: 2-12 mm
Size: 1.2 m x 1.6 m
Color: Black roll with colored flakes

Flake colors:



for AeroSound® Dynamic HIIT, Dynamic Flakes & HIIT

APPLICATIONS



Training rooms



Fitness centers



Health clubs



Scan the QR code
to view the installation
manual.

AeroSound® Gym Flooring EPDM-based

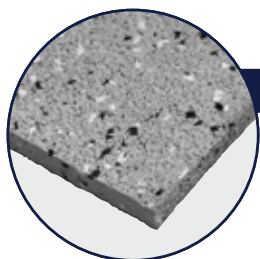
Ideal solution for indoor & outdoor workout areas!



AeroSound® Dynamic+

Thickness: 10-60 mm
Size: 1 m x 1 m, 0.5 m x 0.5 m
Color: SBR black granules + 3-5 mm thick EPDM colored granules

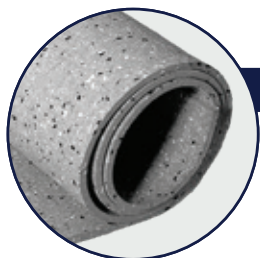
EPDM granule colors:



AeroSound® HIIT Tiles

Thickness: 5-60 mm
Size: 1 m x 1 m
Color: Gray tiles with colored flakes

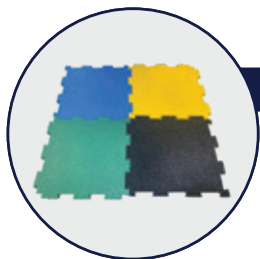
Flakes colors:



AeroSound® HIIT Flakes

Thickness: 2-12 mm
Size: 1 m x 1 m
Color: Rolls with colored flakes

Flakes colors:



AeroSound® Puzzle

Thickness: 5-60 mm
Size: 1 m x 1 m, 0.5 m x 0.5 m
Color: EPDM colored granules

EPDM granule colors:



APPLICATIONS



AEROSOUND[®]

Global Footprint



Disclaimer: This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

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