

SOUNDMAT

decoupled flexible noise barrier floormat

Soundmat is a low profile, high mass noise barrier, bonded to a flexible closed cell foam decoupling layer. The noise barrier is faced with a highly abrasion resistant vinyl wear layer.

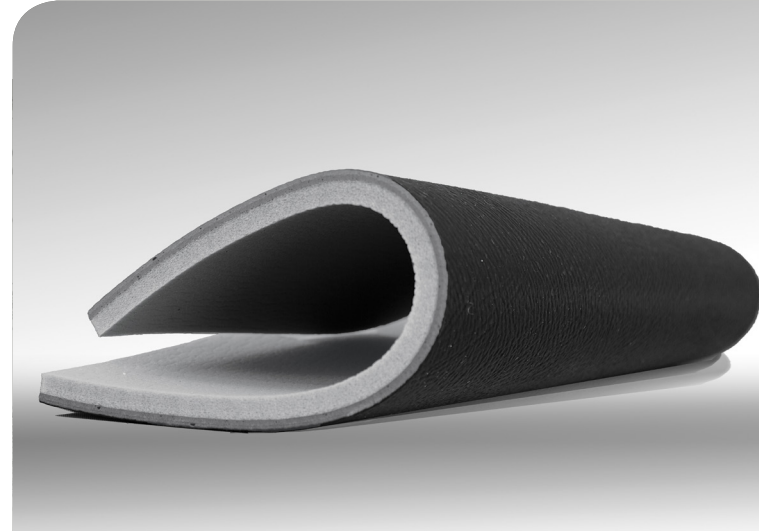
Based on Wavebar® technology, this material is an economical, and acoustically effective, material for use as a floormat to reduce sound transmission. It does not require further protective layers. When applied over the floor, or firewall, of vehicles Soundmat provides a significant increase in transmission loss.

Soundmat offers a valuable increase in transmission loss in the critical frequency region for stiff panels and partitions, where coincidence, and resonance effects are a concern.

Soundmat is available with hydrolysis resistant foam. It is suited for use in wet and humid areas such as in marine or tropical environments and in mobile equipment.

The closed cell nature of the foam eliminates ingress of water, and therefore reduces the potential for corrosion.

Soundmat can be fabricated by sewing or gluing and is available in pre-cut sizes and shapes.



applications

- Floormats and firewall covers in applications such as: trucks, buses, boats, cars, construction and mining machinery
- Marine engine curtains
- Vibrating surface cover in applications such as: hydraulic tanks, plastic granulators, and small generator set enclosures

features

- Available in two weights: 4 and 8 kg/m². Other weights available on request
- Highly wear resistant vinyl layer
- Based on Wavebar® technology
- Foam backing available with open cell foam type in a range of thicknesses
- Hydrolysis resistant closed cell foam decoupling layer
- Can be moulded to shape
- Ignition retardant
- Easy to install: can be cut with a knife
- Chemically resistant to oils, alkalis and acids
- Australian designed and made
- Reduces sound transmission
- Resists abrasion
- Long service life, attractive finish
- Maximises R_w rating by enhancing transmission loss at panel coincidence
- Low installation cost
- Closed cell foam provides thermal insulation

SPECIFICATIONS

Colour	Black and grey
Available	Roll Length (Linear m): 5, 10 m Thickness: 5 mm to 25 mm Width: 1350 mm (supplied untrimmed)
	Custom sizes, weights and thicknesses available depending on MOQ
Options	PU Foam, PE or EMPM foam



PRODUCT SPECIFICATIONS

Product name	Total thickness (mm)	Roll			Abrasion resistance AS 1441.12	Puncture resistance ASTM D751-00	Operating temperature range (°C)
		Width (mm)	Length (linear m)	Weight (kg)			
Soundmat 4005	7	1350*	10	59	Unaffected (7-533204MV)	195 N (7-533204MV)	-40 to 100 (Continuous) -40 to 120 (Intermittent)
Soundmat 8005	9		5	58			

Tolerances: Length: -0/+50 mm; Width: -0/+5 mm; Thickness: +/- 2 mm; Weight: +/- 5%

*Supplied untrimmed - means some surface coverings such as foils, film or fabric may overhang the ordered useable width.

Decoupling layer is also available with open cell foam type in a range of thicknesses

MATERIAL PROPERTIES

Product	Test method	Property	Description	Results
Soundmat	FMVSS-302	Burn rate - mm/min	FMVSS-302 specifies burn resistance requirements of materials.	Self extinguishing
	ISO 3795-1989		Determination of burn rate - road vehicles, tractors and machinery.	Complies (7-498959-CN)

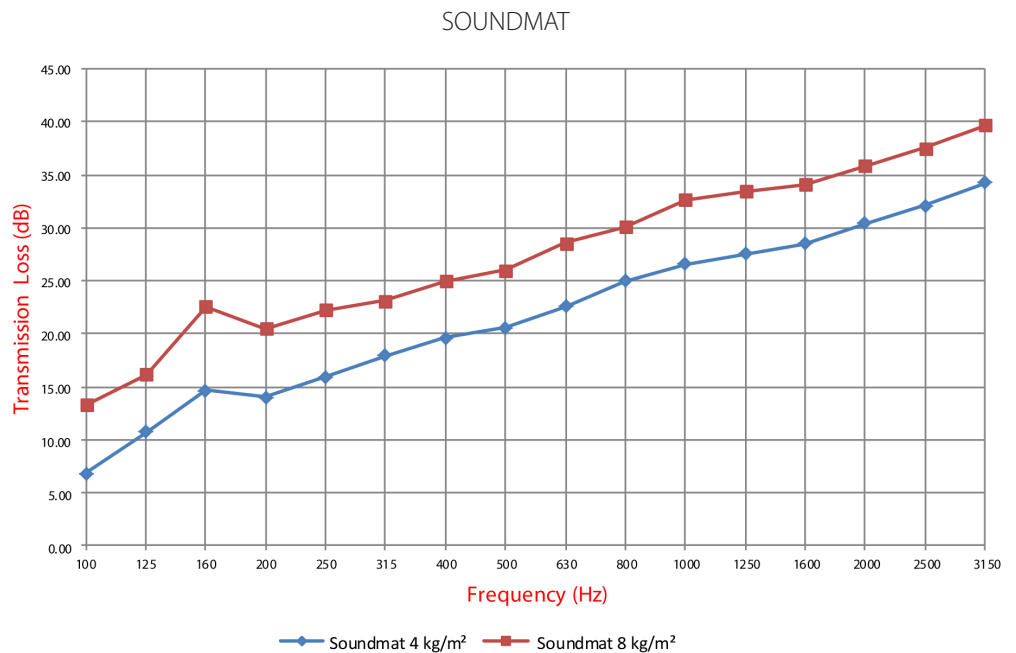
CHEMICAL RESISTANCE (FACING)

Material	Acetone	MEK	Petrol	Diesel
PVC	Swells*	Swells*	Good	Good

*Swells and then returns to normal on drying.

ACOUSTIC PERFORMANCE

Frequency (Hz)	Soundmat 4 kg/m ²	Soundmat 8 kg/m ²
100	6.80	13.30
125	10.76	16.19
160	14.66	22.55
200	14.05	20.51
250	15.95	22.29
315	17.93	23.16
400	19.66	25.00
500	20.61	25.99
630	22.55	28.58
800	24.99	30.09
1000	26.61	32.66
1250	27.58	33.43
1600	28.50	34.09
2000	30.41	35.86
2500	32.11	37.56
3150	34.26	39.74
4000	36.67	42.06
5000	39.00	45.00
R_w	25	31
STC	26	31
α_w	0.20 (H)	0.30 (MH)



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