

SOUNDMAT

decoupled flexible noise barrier floormat

Soundmat is a low profile, high mass noise barrier, that can be bonded to a flexible foam decoupling layer to improve vibration isolation. 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 floor mat to reduce sound transmission. It does not require additional protective layers. When applied to 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 closed-cell foam or polyester, selected to suit its application. It is suited for use in wet and humid areas such as marine or tropical environments and in mobile equipment.

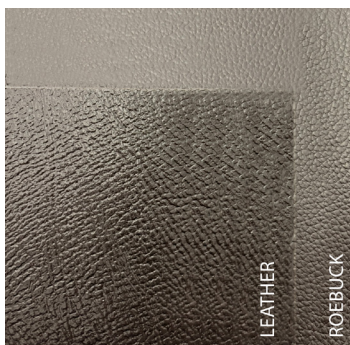
The nature of the decoupling layer eliminates ingress of water, and therefore reduces the potential for corrosion.

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

SPECIFICATIONS

Colour	Black
Surface finish	Roebuck or Leather textured finish
Available	Roll Length (l/m): 5 m to 30 m Thickness: 2 mm to 25 mm Width: 1350 - 1450 mm (supplied untrimmed)
	Custom sizes, weights and thicknesses available depending on MOQ
Options	PU Foam, NBR, or polyester

SURFACE FINISH



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



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)			
Soundmat	2 - 25	1350 - 1450*	5 - 30	Unaffected (7-533204MV)	195 N (7-533204MV)	-40 to 100 (Continuous) -40 to 120 (Intermittent)

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

*Supplied untrimmed

Decoupling layer is also available with open cell and polyester foam in a range of thicknesses (not shown in product specifications)

MATERIAL PROPERTIES

Test method	Property	Report	Results
FMVSS-302	Flammability of interior materials	07825RV	Self extinguishing
AS 5637.1 (AS 3837 / ISO 5660-1)	Fire hazard properties	FH13406-01-2	Group 3*

*Results refer only to Wavebar Barrier Layer

CHEMICAL RESISTANCE

Acetone	MEK	Petrol	Diesel	10% HCl Solution	10% NaOH Solution
Fair	Poor	Good	Good	Poor	Poor

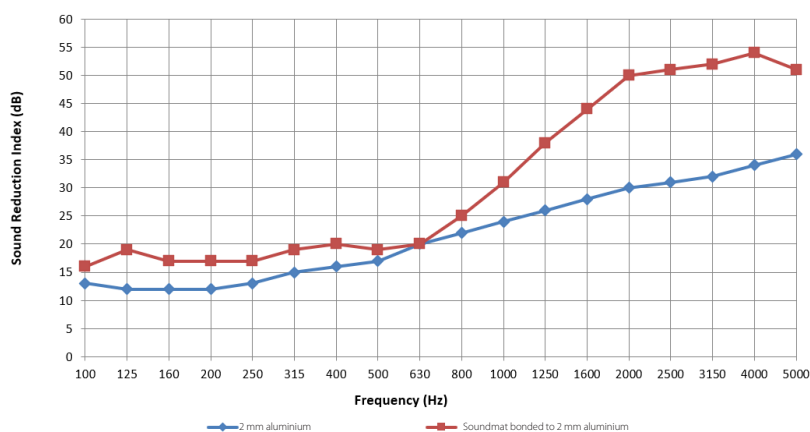
ACOUSTIC PERFORMANCE

Frequency (Hz)	2mm aluminium	Soundmat bonded to 2 mm aluminium
100	13	16
125	12	19
160	12	17
200	12	17
250	13	17
315	15	19
400	16	20
500	17	19
630	20	20
800	22	25
1000	24	31
1250	26	38
1600	28	44
2000	30	50
2500	31	51
3150	32	52
4000	34	54
5000	36	51
Rw	23	26
STC	23	26

Tested to AS 1191 at RMIT, Australia

Overall tested thickness is 12 mm including 4.5 kg/m² barrier

Soundmat 4010PU



For further information
and contact details,
please visit our website
pyroteknc.com

Caveats: Specifications are subject to change without notice. The data in this document is typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic, mechanical and fire engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights.

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