

### Introduction

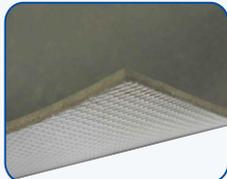
**NOISESTOP** Barrier Mats are highly flexible polymeric by incorporating additional mineral fillers. They are designed to act as acoustic barriers to reduce noise transmission by adding mass to building elements, equipment or automotive components. Suitable for outdoors application.

**NOISESTOP** Barrier Mat is available in rolls and sheets and can be cut into size and shape.

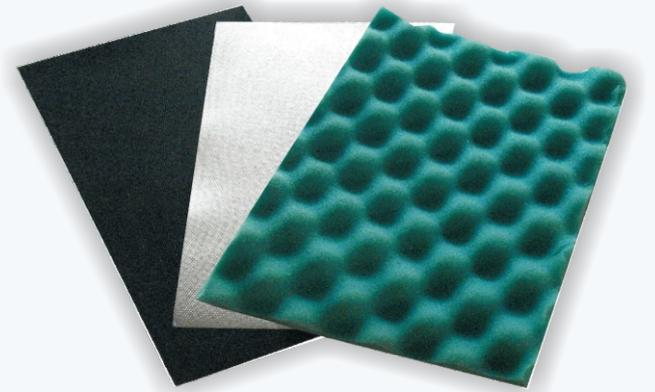
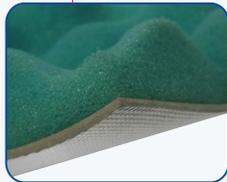
**BM 4 / 6** is the basic model of Noise Barrier. It is used extensively in the building industry to improve the sound insulation of partition or use alone.



**BM 4A** one side of mat has added an aluminium foil facing for improving the strength and anti UV performance.



**BM 4AE** one side of mat has added an aluminium foil facing and sound absorber foam for further improving the sound absorption.



### Acoustic Performance

Item	Test Method	Results		
		BM 4	BM 4A	BM 4AE
STC	ASTM E90-09	25	23	24
R <sub>w</sub>	BS EN ISO 140-3:1998	25dB	23dB	24dB
NRC	ASTM C423	—	—	0.50

Sound Transmission Loss (dB)							
Item	125	250	500	1000	2000	4000	STC
BM 4	13	15	20	26	32	37	25
BM 4A	13	14	18	23	29	33	23
BM 4AE	13	14	19	24	30	34	24

1/1 Octave Band Sound Absorption Coefficient							
Item	125	250	500	1000	2000	4000	NRC
BM 4AE	0.06	0.16	0.42	0.82	0.93	1.05	0.60

### Flammability Performance

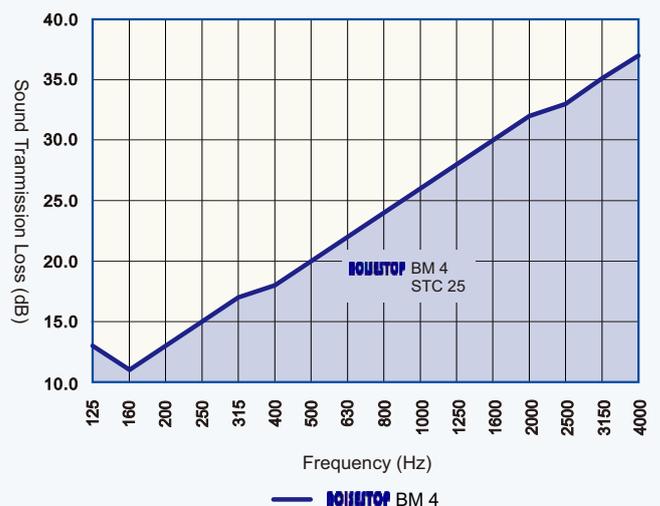
Item	Requirement	Test Result
20s Burning Length, mm	≤150	Pass
Ignition of filter paper	No Ignition	Pass
Burning Test	UL 94-2006	Class HB

### Product Specification

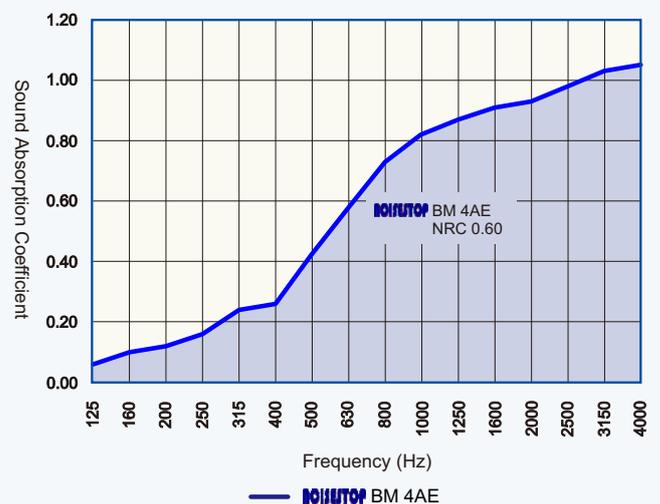
Model	Thick	Density	Size	Colour
BM 4	2mm	4.0kg/m <sup>2</sup>	10×1m	Black
BM 6	3mm	6.0kg/m <sup>2</sup>	5×1m	Black
BM 4A	2mm	4.0kg/m <sup>2</sup>	10×1m	Silver
BM 4AE	25mm	4.5kg/m <sup>2</sup>	10×1m	Silver

"Operation Temperature from -10°C to 70°C; Tolerance: Weight ±5%".

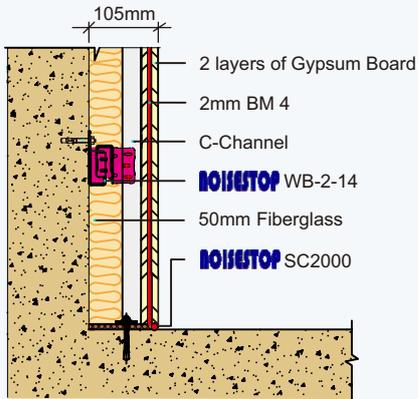
### Sound Transmission Loss



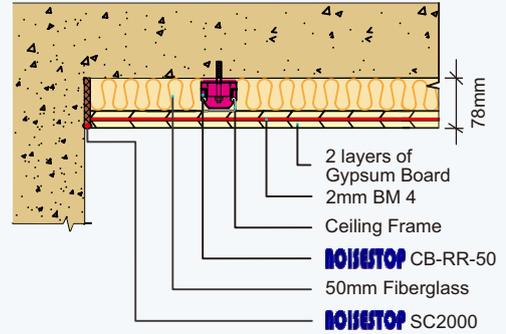
### Sound Absorption Coefficient



### Indoor Wall Ceiling Enhancement



STC-62 Wall System



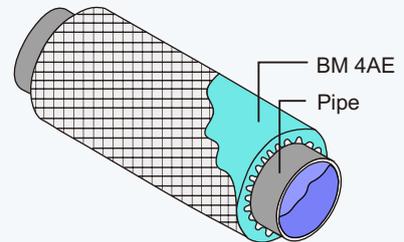
STC-69 Ceiling System

The normal way to increase the sound insulation of wall and ceiling is to increase the surface density of structure. BM 4 is an economical solution with only 2mm thick and very space saving for good sound insulation.

### Outdoor Noise Barrier Application



### Pipe Noise Reduction



Pipe	without BM 4AE	with BM 4AE	Improvement
Noise	56~60 dBA	35~42 dBA	18~21dBA



MTRC C908 Noise Barrier



Treated water pipe with BM 4