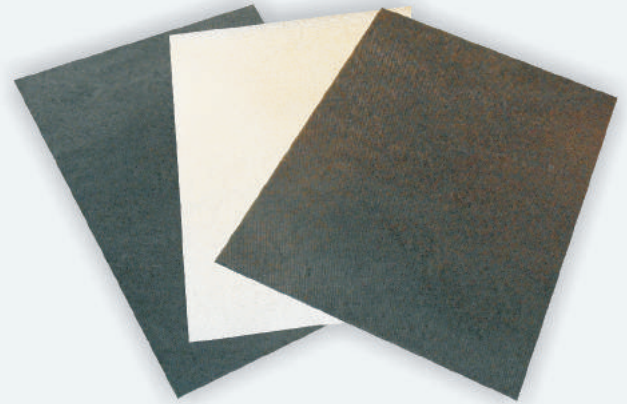


Introduction

NOISESTOP Damping Sheet is made from modified bitumen for reducing noise and vibration radiation from sheet metal construction. It is manufactured from bitumen, mineral filler and polymer etc.

NOISESTOP Damping Sheet are available in three standard thickness. Both have a full self-adhesive backing and a polythene film facing or aluminium foil for DS 4A. It can be used as a layer between two walls to reduce wall resonance and noise transmission. Damping Sheet has significant improvement of rain impact noise when stick it with metal roof cladding.



Acoustic Performance

Impact Sound Insulation by Rainfall Test

Testing in accordance with a method of simulating rainfall at rate 300mm/h under laboratory conditions standard «BS EN ISO 140-18:2006»

1/3 Octave Band and 1/1 Octave Band Sound Pressure Level									
Item Hz	Without DS 4		With DS 4		Item Hz	Without DS 4		With DS 4	
100	46.3		28.0		800	41.5		35.3	
125	36.8	43.1	31.6	36.9	1000	38.3	44.5	33.8	39.3
160	40.5		34.5		1000	38.7		34.2	
200	44.0		38.5		1600	41.0		33.9	
250	43.3	48.0	38.6	43.2	2000	38.1	44.3	30.8	36.7
315	42.2		38.3		2500	38.9		30.1	
400	43.5		37.6		3150	37.4		29.2	
500	42.9	47.8	37.0	41.5	4000	35.9	44.7	28.9	33.6
630	42.8		35.5		5000	33.7		28.4	

Vibration Damping Properties

System loss factor is a dimensionless figure representing the damping properties of a system testing standard «GB/T 16406-1996» .

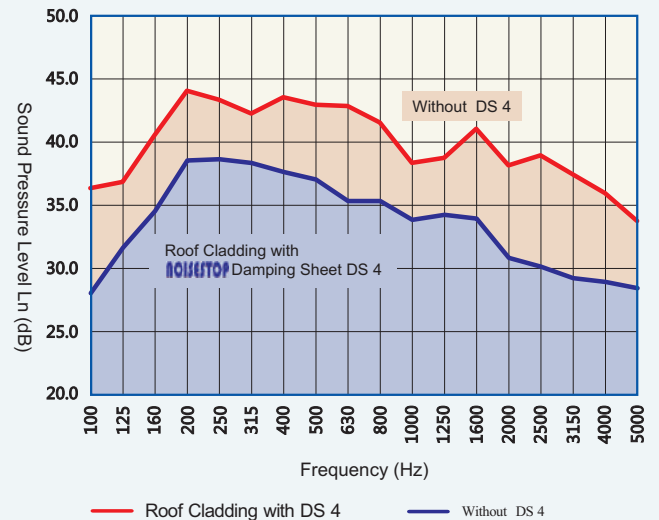
Temperature, °C	System Loss Factor, η_c	
	DS 4	DS 6
0°C	0.22	0.25
10°C	0.18	0.28
20°C	0.12	0.24
30°C	0.07	0.14
40°C	0.04	0.10
50°C	0.02	0.06

Product Specification

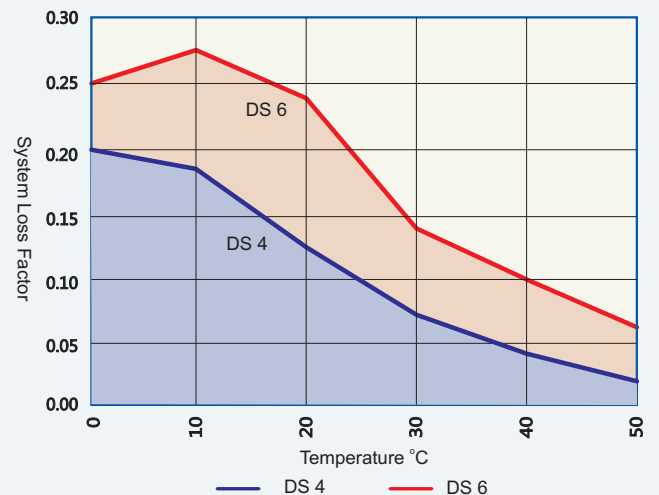
Model	Thick	Density	Size/Sheet	Colour
DS 3	1.5mm	2.9kg/m ²	0.8x1.2m	Black
DS 4	2.0mm	3.8kg/m ²	0.8x1.2m	Black
DS 4A	2.0mm	3.8kg/m ²	0.8x1.2m	Silver
DS 6	3.0mm	5.7kg/m ²	0.8x1.2m	Black

“Operation Temperature from -10°C to 80°C; Tolerance: Weight ±5%”.

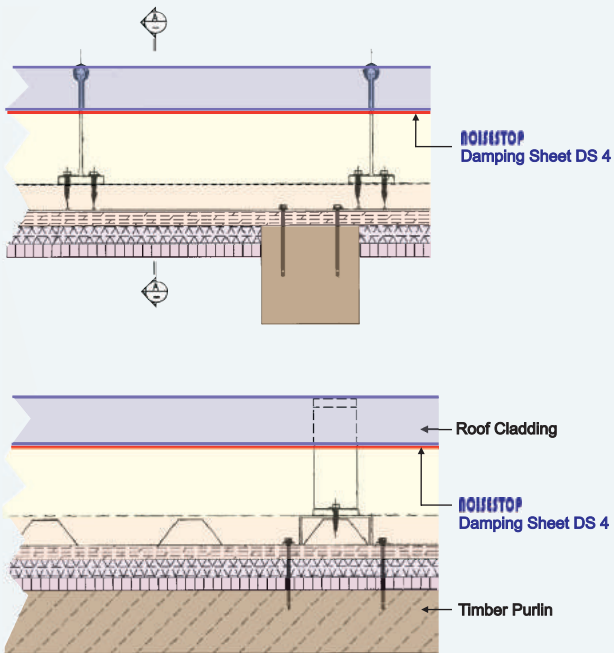
Impact Sound Improvement at 300mm/h Rainfall



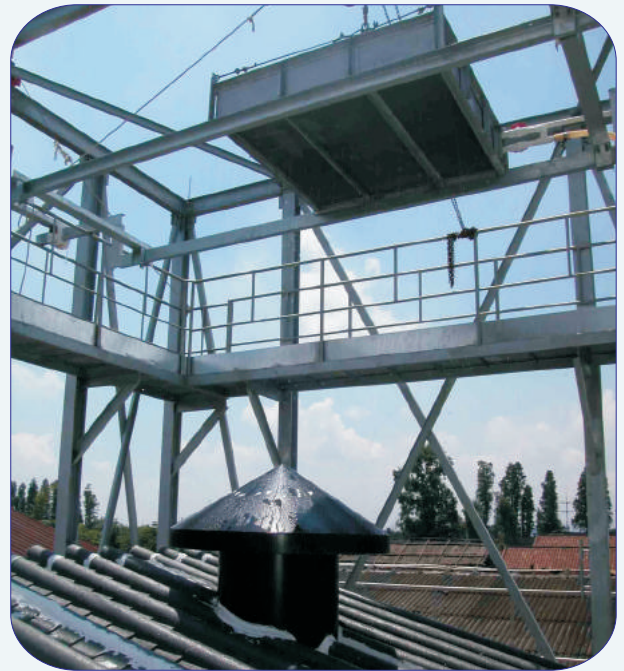
System Loss Factor



Installation of Roof Cladding



Typical Section for Metal Roof System



Rain Impact Test



Maggie's Cancer Caring Centre Metal Roof

Tai Po Science Park