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SOUNDPROOFING · ACOUSTIC CONTROL · AUDIO SYSTEMS R&D · MANUFACTURING · GLOBAL TRADE CONSTRUCTION · RENOVATION · INTERIOR DESIGN



53 UBI AVENUE 1, 05/06/07/08/-37, NYTC MICRO TOWER, PAYA UBI INDUSTRIAL COMPLEX, SG, 408934 | CONNECT@NYTC.EARTH | +65-62767453

NoiseBlock™

Soundproofing & Acoustic Building Materials

NoiseBlock™ BBB-DS-6 NFR Viscos Damping Sheet

VERSION 6.0

PRODUCT: NoiseBlock BBB-DS-6 NFR



DESCRIPTION:

NoiseBlock™ BBB-DS 6 NFR is an almost magical solution product. It is an integral material suitable for every noise control application. This can be attributed to its unique properties that gives excellent flexibility in its application. The material state is of being in-between a liquid and a solid state that results in its unbeatable vibration dampening properties and its ability to contain low bass resonance frequencies.

The weight and density of the material is much higher than any other sheet based materials of the same thickness on the market as well as its mass index. In comparison to other dampening materials that are made using tar, asphalt or bituminous paint, Vinyl or rubbers NoiseBlock BBB-DS uses vastly better quality raw materials that are higher up on the periodic table in terms of visco-polymers in purity leading to its amazing results that outperforms in every test of performance.

The BBB-DS NFR Series Product comes with increased density and depth layer for greater noise control properties. We recommend this for industrial application or high level reduction in domestic or commercial sector.

There are quiet a few copies of our product on the market that have presented themselves over the years from small companies to well establish large companies selling non-genuine based materials. These copies and replicas offer little of no results in terms of noise control.

COMPOSITION:

Very high density Polymer core mixed with visco-elastic polymer binders. Bonded to a metallic dispo-sheet.

APPLICATIONS:

The product can be used with any hard surface to reduce or remove vibration related noises. Ideal for use with concrete surfaces, metal structures and on timber. It can be used in vehicles such ferries, vessels, oil tankers, Cars, Trains, Lorries, Buses and Planes. It is also the perfect material to form an integral part to recording studios, television studios, nightclubs and so on.

CHARACTERISTICS:

- Metal Surface finish ■ Self-Adhesive

THICKNESS:

6 mm

SIZE:

1000mm x 500mm

WEIGHT:

~6 KG

ACOUSTIC PERFORMANCE:

~26-35 dB(A) Best possible performance indicator depending on frequency

DESCRIPTION:	UNIT:	TECHNICAL DATA:	TEST STANDARD:
Operating Temperature / 工作温度	°C	-40°C~200°C	

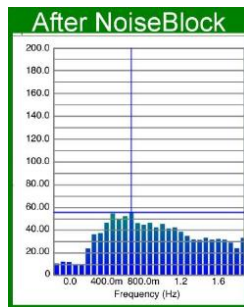
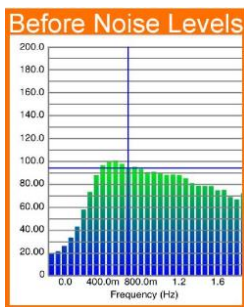
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燃烧性能 / Combustion		FLAME/FIRE Resistant but eventually flammable (FR Coating Available)	
湿阻因子 / Wet resistance factor 透湿系数 / Permeability coefficient	μ g/(m.s.Pa)	≥ 11000 $\leq 1.8 \times 10^{-11}$	DIN52615 GB/T17146-1997
尺寸稳定性 / Dimensional Stability 105 \pm 3 $^{\circ}$ C,7d	%	≤ 10.0	GB 8811-1988
耐臭氧性 Ozone resistance 臭氧分压 2002mpa 200h	—	无龟裂 / No Cracks	GB/T7762-1987 GB/T9571-1988
降噪性能 Noise Reduction Performance	dB	~ 35 Best Possible Performance	DIN4109
防霉性能 Mold Performance	—	无霉菌生长 No mold growth	
耐油污能力 Oil-resistant ability	—	良好 Good	

Acoustic Performance Material	Geiger Plate Decay Rate @ 20C dB/sec	
DS 5	15	NoiseBlock Series improve acoustic performance by increasing decay rate. Decay rate is the speed in dB/second at which the vibration reduces after panel excitation has ceased. The higher the decay rate, the better the acoustic performance.
DS 3A	15	
DS 5	35	
DS 5A	35	
DS 6	37	
DS 10A	98	

An example of Improvement in Decay Rate on 0.8mm Aluminium Zink	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Untreated	8	14	20	26	32	39
Treated with DS TS10A	27	32	32	33	41	43
Treated with DS TS15A	29	34	34	35	43	45

TYPICAL INSTALLATION PERFORMANCE EXAMPLE:



NoiseBlock BBB-DS6 material has been used successfully at Singapore MediaCorp Mediapolis mitigating 30,000.00 square meters of coverage as an integral part of their noise control mitigation measures for their newest built broadcasting and television studios production facility. The system was designed as a replacement to transitional noise mitigation cladding works which saved over 1 million Singapore Dollars for the client compared to traditional methods.