

Information

BISCO® HT-200 Sound Block materials are specifically designed to reduce the transmission of sound within interior spaces while inhibiting the spread of fire and smoke. The elastomeric materials use a filler technology to solve acoustic, fire and smoke issues within a variety of markets. They are supplied in roll form and are available with or without adhesives and supported backings to aid in your installation.

Features and benefits

- Flame retardent properties ensure compliance to international safety standards for Mass Transit and Aerospace.
- Filler technology reduces the spread of flame and toxic smoke during accidents, which are a leading cause of injuries.
- Sound transmission can be “tuned” by adjusting the areal density or weight of the materials. See tables for reference.
- Rubber elastomer has good tear strength with excellent resistance to compression set, UV light, moisture, and cleaning alcohols.
- Maintains properties at temperatures between -67°F and 482°F (-55°C and 250°C)

Applications

- Sub-flooring for railcars
- Interior vehicle panels
- Air ducts

Installation

- Available with a pressure-sensitive adhesive on one or two sides to allow easy application to a variety of surfaces.
- Also available with a fibreglass backing on either side of the product at no extra charge to allow users a variety of options for installation. The fibreglass backing enhances the strength and tear resistance of the material, which allows users to mechanically attach the Sound Block to various surfaces such as carpet or steel without sacrificing the integrity and durability of the BISCO Sound Block material.

Design Considerations

BISCO Sound Block may be applied and used in various forms. Please contact +44 (0) 121 773 8494 for further assistance and samples.

BISCO Sound Block - Acoustic Sound Transmission Data - ASTM E 90 and ASTM E 413					
FREQ	0.25 PSF	0.50 PSF	0.75 PSF	1.0 PSF	1.5 PSF
	TL	TL	TL	TL	TL
100	8	15	16	19	20
125	7	12	14	14	15
160	7	12	13	17	18
200	8	12	15	16	19
250	8	14	17	19	21
315	8	13	18	19	20
400	10	15	19	20	23
500	11	16	20	22	24
630	13	19	22	24	26
800	14	21	24	26	28
1000	16	22	25	28	30
1250	17	24	27	30	33
1600	19	26	29	21	34
2000	21	27	30	33	36
2500	22	29	32	34	38
3150	23	31	34	36	40
4000	25	31	36	38	41
5000	27	32	37	40	43
STC	16	22	25	27	29

FREQ = Frequency, Hertz (cps.) | TL - Transmission Loss, dB | STC = Sound Transmission Class

Sound Transmission Loss Typical of HT-200 at Various Weights					
TEST METHOD	TYPICAL SOUND TRANSMISSION LOSS RATING	AREAL DENSITY		APPROX THICKNESS	
		PSF	KG/M ²	IN.	MM
ASTM E 90	29	1.50	7.32	0.150	3.81
ASTM E 90	27	1.00	4.88	0.100	2.54
ASTM E 90	25	0.75	3.66	0.075	1.91
ASTM E 90	22	0.50	2.44	0.050	1.27
ASTM E 90	16	0.25	1.22	0.025	0.64

Flame Spread, Optical Density and Oxygen Index		
TEST METHOD	IDENTIFICATION	TYPICAL PROPERTIES
ASTM E 162	Is	< 5
ASTM E 662	DSs Flaming Ds Non-Flaming	< 25 < 25
ASTM D 2863	Oxygen Index %	50
SMP-800C	Toxic Gas Emissions	Pass

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