

KINETICS™

Sound Absorption Panels

Model S4

Description and Application

Kinetics Model S-4 is a highly efficient, tuned sound absorber designed for low and mid-frequency sound absorption.

Model S-4 consists of a 3 PCF (48 kg per cu. M) glass fiber core completely protected with a eight mil (203.2 micron) thick neoprene-coated, fiber-glass reinforced, aluminized polyester white or foil film (1.5 mil/38.1 micron) facing.

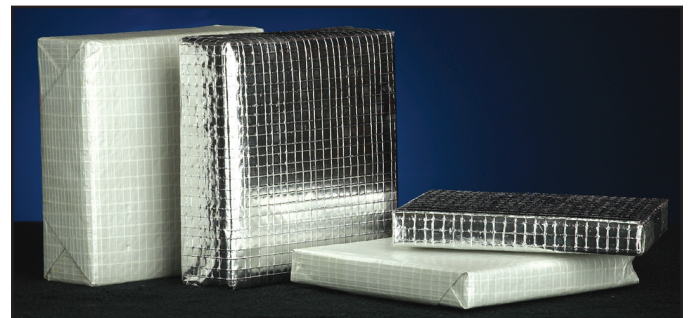
The product is available in 1" (25 mm) and 2" (50 mm) thicknesses, and sizes up to 4' by 8' (1219 mm x 2438 mm), or in die-cut shapes to meet application requirements. When tested in #4 mounting (direct application), the 1" (25 mm) thick S-4 sound absorber is rated at NRC 0.75. The 2" (50 mm) thick S-4 is rated at NRC 0.94.

Kinetics Model S-4 Sound Absorbers are particularly suited for wall or ceiling installations in industrial facilities and machinery enclosures, engine shrouds, air compressor cabinets or other applications where a reduction of reverberated sound is desirable.

The board-like absorbers have good structural integrity and damage resistance and can be used in temperatures from -65°F to 265°F (-54°C to 129°C).

The highly reflective surface and flame resistant properties of the facing material make it ideal for most applications where sound absorption is required. Fire Hazard Classification: flame spread 25, smoke developed 50.

Kinetics Model S-4 Sound Absorbers can be installed by impaling them on welded pins, by cementing, or by using edge clips or batten strips. S-4 Absorbers can be steam cleaned and are designed to resist most conditions which are found inside machinery enclosures.



Specifications

Sound absorbers shall be constructed from 3.0 PCF (48 kg per cu. M) fiberglass, sized as required, up to 48" x 96" (1219 mm x 2438 mm) with a thickness of 1" (25 mm) or 2" (50 mm). The fiberglass core shall be completely wrapped and sealed with a eight (8) mil (203.2 micron) (+/- 1 mil/25.4 micron) thick neoprene coated, fiberglass reinforced, aluminized polyester white or foil film (1.5 mil/38.1 micron) facing.

Absorbers shall have a minimum NRC rating of 0.75 for 1" (25 mm) thickness and 0.94 for 2" (50 mm) thickness.

Fiberglass facing exhibited a flame spread rating of 25 and smoke development of 50 when tested in accordance with ASTM-E-84 Tunnel Test.

Absorbers shall be capable of being steam cleaned. Fiberglass facing shall be oil resistant.

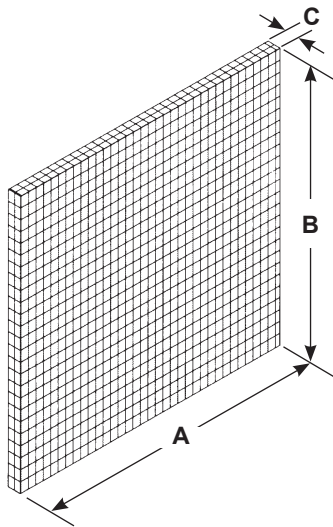
Absorbers shall be installed by impaling on welded pins, by cementing, or by the use of edge clips or batten strips.

Absorbers shall be Model S-4 as manufactured by Kinetics Noise Control, Inc.

Sound Absorption Coefficients

1" (25 mm) and 2" (50 mm) #4 mounting

Frequency (Hz)	1" (25 mm) Thick	2" (50 mm) Thick
125	0.13	0.26
160	0.15	0.35
200	0.21	0.62
250	0.32	0.80
315	0.50	1.01
400	0.73	1.18
500	0.95	1.23
630	1.06	1.17
800	1.10	1.08
1000	1.08	1.00
1250	0.93	0.93
1600	0.76	0.81
2000	0.62	0.71
2500	0.55	0.64
3150	0.53	0.53
4000	0.46	0.43
NRC	0.75	0.94



Absorber Type	Total Absorption Sabins	A		B		C	
		in	mm	in	mm	in	mm
S4-2/2-1	3.50	24	610	24	610	1	25
S4-2/4-1	6.75	24	610	48	1219	1	25
S4-4/4-1	13.00	48	1219	48	1219	1	25
S4-4/8-1	25.50	48	1219	96	2438	1	25
S4-2/2-2	5.01	24	610	24	610	2	50
S4-2/4-2	9.40	24	610	48	1219	2	50
S4-4/4-2	17.54	48	1219	48	1219	2	50
S4-4/8-2	33.84	48	1219	96	2438	2	50



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