

KINETICS®

Sound Absorption Panels

Model S4

Description and Application

Kinetics S4 sound absorption panels are highly efficient, tuned sound absorber designed for low and mid-frequency sound absorption.

S4 consists of a 3 PCF (48 kg per cu. M) glass fiber core completely protected with a 8 mil (203.2 micron) thick neoprene-coated, fiberglass reinforced, aluminized polyester white or foil film (1.5 mil/38.1 micron) facing.

S4 is available in 1" (25 mm) and 2" (50 mm) thicknesses, and sizes up to 48" by 120" (1219 mm x 3048 mm), or in die-cut shapes to meet application requirements. When tested in #4 mounting (direct application), the 1" (25 mm) thick S4 sound absorber is rated at NRC 0.75. The 2" (50 mm) thick S4 is rated at NRC 0.94.

S4 panels 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.

S4 absorption panels can be steam cleaned and are designed to resist most conditions which are found inside machinery enclosures.



S4 Ceiling Installation in an Industrial Facility



S4 Wall and Ceiling Installation in Generator Room

Specifications

Sound absorption panels shall be constructed from 3.0 PCF (48 kg per cu. M) fiberglass, sized as required, up to 48" x 120" (1219 mm x 3048 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.

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

Sound absorption panels shall be capable of being steam cleaned. Fiberglass facing shall be oil resistant.

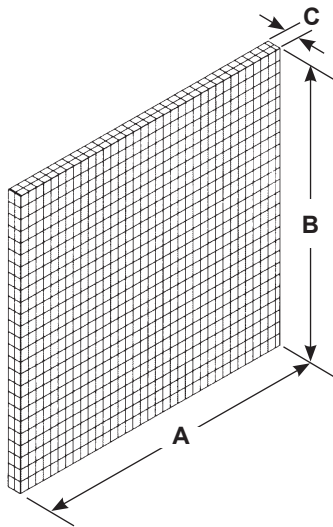
Sound absorption panels shall be installed by impaling on welded pins, by cementing, or by the use of edge clips or batten strips.

Sound absorption panels shall be model S4 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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