

Product Data and Submittal Sheet

STC Hi-Sabin™ Panel

Project Information

Product Description

The **HI-SABIN™ PANEL** by STC Sound Control is an acoustical cloud made of *open-cell melamine-based foam*, a Class A fire-rated material with exceptional sound absorption characteristics and low density. Low weight (ex: a 2' x 2' x 2" thick panel weighs only 6 oz.) allows for simple installation with no hardware. Noise Reduction Coefficients up to **1.25** are achieved by separating panels in a pattern and installing with foam standoff mounting cubes.



Applications

Use the **STC Hi-Sabin™ Panel** wherever reverberant noise control is valued, in new construction as well as renovation. Spaces where exposed building structure forms the ceiling are common applications:

- Restaurants
- Loft apartments
- Cafeteria
- Gymnasiums
- Music and Band Rooms
- Offices and Conference areas
- Corridors
- Manufacturing areas

Specifications

Sound-Absorbing Ceiling Panels: Open-cell melamine-based foam panels, Class A fire rating per ASTM E84, density 0.56 pcf per ASTM D3574, NRC-1.25 per ASTM C423 with ASTM E795 Type J mounting; "STC Hi-Sabin Panels" by STC Sound Control.

Installation

Recommended ASTM E795 mounting method types include:

- Direct Attachment (Type A) to substrate with hot-melt adhesive.
- Suspended (Type E) in a metal lay-in ceiling suspension system.
- Furred Panel Attachment (Type F-50) with standoff mounts and hot-melt adhesive.
- Furred and Separated Panels (Type J) set in a pattern with standoff mounts and hot-melt adhesive.

Best acoustical results and economy are achieved with furred and separated mounted (Type J). Surfaces for hot-melt adhesive mounting must be clean; painted surfaces must be sound. Refer to STC website for detailed instructions.

Availability

Natural Colors: **White, Light Gray or Medium Gray.**

Standard Configurations: Rectangular flat panels, any dimensional combination of thickness at 1", 1-1/2" or 2" and face dimensions of 12" x 24", 24" x 24", and 24" x 48". Rectangular corrugated panels about 1-1/2" thick and face dimensions 24" x 24".

Custom Configurations: Flat surface panels are available in any size up to 2" thick x 50" x 98". Panels may be cut to any custom two-dimensional shape including curves; consult factory.

Painted Panels: Painting panels is possible with minimal reduction in sound absorbing performance. Special care is required. Contact us for information.

The **STC Hi-Sabin™ Panel** is available directly from our website www.stcsoundcontrol.com or phone (716) 839-0900.

Product Data and Submittal Sheet
STC Hi-Sabin Panel™

Project Information

Hi-Sabin Panels: Sound Absorption							
Panel Type, Thickness and Mounting	Frequency						
	125	250	500	1000	2000	4000	NRC
Flat 1" Direct Adhered	0.07	0.22	0.54	0.78	0.85	0.87	0.60
Flat 1-1/2" Direct Adhered	0.13	0.36	0.84	0.92	0.92	0.94	0.75
Flat 2" Direct Adhered	0.11	0.56	1.01	1.00	0.99	0.97	0.90
Flat 1" Furred	0.04	0.30	0.75	0.92	0.90	0.93	0.70
Flat 1-1/2" Furred	0.13	0.51	1.03	1.00	0.96	1.00	0.90
Flat 2" Furred	0.17	0.69	1.14	1.04	1.02	1.02	0.95
Flat 1" Furred and Spaced	0.00	0.26	0.83	1.21	1.15	1.21	0.85
Flat 1-1/2" Furred and Spaced	0.11	0.42	1.15	1.46	1.26	1.37	1.05
Flat 2" Furred and Spaced	0.11	0.61	1.47	1.57	1.44	1.46	1.25
Patterned Direct Adhered	0.08	0.25	0.67	0.84	0.86	0.90	0.65
Patterned Furred	0.07	0.36	0.87	0.96	0.92	0.99	0.80
Patterned Furred and Spaced	0.05	0.29	0.95	1.31	1.22	1.32	0.95

Performance & Typical Properties

Sound Absorption (ISO 354/ASTM C423): Varies by thickness and mounting; refer to chart above.

Density (EN ISO 845/ASTM D3574): 0.56 pcf.

Surface Burning (ASTM E84): Class A; Flame Spread Index – 5; Smoke-Developed Index – 0.

Flammability of Plastic Material (UL 94): Class V-0; Low Density Foam HF-1.

Microbial Growth (UL 181): Passes, Section 11.

Maintenance

No maintenance is required.

Limitations

STC Hi-Sabin™ Panels are very soft and subject to abuse; locate on upper walls and ceilings that are out of reach. Panels expand due to moisture in the air and may sag slightly when used in high-humidity environments such as interior pools. Thermal changes may loosen adhesives; consider positive fasteners for panels mounted on roof decks.

Safe Handling Information

No special precautions required. Consult the Material Safety Data Sheet (MSDS).

Warranty

STC Sound Control warrants that the High-Sabin™ Panel will be free from defects in material and manufacture. STC makes no other express or implied warranties.

Approval Stamp
