

SOLUTION FOR REVERBERANT NOISE IN PUBLIC PLACES

Most of the time, we ignore sound until it becomes a problem. But once it does, it's often a big one.

From apartments to hotels, and restaurants to office spaces, noise can affect productivity, customer satisfaction, and overall success.

Great experiences in spaces like restaurants go beyond quality food and service – they also include design and social ambiance. When noise levels make conversation difficult or impossible, the social experience suffers.

THE PROBLEM OF REVERBERANT NOISE

When people say a room is “echoey” or “noisy,” they are generally referring to reverberant noise. Sounds seem to linger for a little while, before diminishing to a level where they aren't heard. It's a characteristic measured in seconds, called *Reverberation Time*.

When noise lingers in a space, it mixes with the subsequent sounds that are introduced, which can make things like speech difficult to understand. Spaces designed for acoustical comfort and speech recognition should have low reverberation times of 0.9s or less.

Reducing reverberant noise depends on introducing materials that “absorb” sounds by reducing reverberation time – with the amount of sound absorption being measured in units called “sabins.”



Solutions for reducing reverberant noise and enhancing acoustic comfort include STC's Hi-Sabin Panel – seen here in a patterned configuration, as well as flat with a wire baffle frame.

REDUCING REVERBERANT NOISE IN PUBLIC SPACES

While traditional lay-in ceiling tiles present a solution that can help reduce reverberant noise, exposed ceiling structure has become more and more popular as an aesthetic choice that can create a unique visual ambiance for a space.

However, with exposed ceilings, acoustic performance often suffers – and additional sound absorption materials must be introduced to achieve acoustic comfort.

One solution comes in the form of fiberglass ceiling panels which reduce reverberant noise. Unfortunately, these can be heavy, expensive, and require additional hardware to install.

Luckily, STC Sound Control provides a better solution ...

THE STC HI-SABIN PANEL

The STC HI-SABIN PANEL™ is a melamine foam-based panel designed for sound absorption. It can be **attached to ceilings** or **hung in baffles** to help significantly reduce reverberation time and improve acoustic comfort in public places. Compared to alternative solutions, the STC Hi-Sabin Panel is simple, high-performance, and cost-effective:

SIMPLE



With the STC Hi-Sabin Panel being incredibly lightweight (6 ounces or less), no expensive special mounting hardware is required. Panels are attached to the substrate with hot-melt adhesive, or alternately, hung in wire baffles from the ceiling.

HIGH-PERFORMANCE



Melamine-based foam has open cells that absorb sound unlike other foam materials, resulting in very high Noise Reduction Coefficients (over 100%) for exceptional reverberant noise control. The material is also Class-A fire rated for code compliance.

COST-EFFECTIVE



Cost comparisons are best measured by looking at “cost per sabin” or cost per unit of effective sound absorption. Installed Cost per Sabin of the STC Hi-Sabin Panel is less than half of the cost of the ubiquitous lay-in acoustical panel ceiling!

AESTHETICS & APPLICATIONS

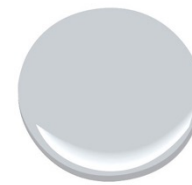
Beyond technical performance and cost benefits, the Hi-Sabin Panel provides a solution for maintaining the aesthetic of spaces with exposed ceiling structure. It is ideal not only for restaurants, but loft-type apartments, offices, gymnasiums, manufacturing areas, indoor pools, corridors, lobbies, & other areas where reverberant noise control is desired.

CONFIGURATIONS & DESIGN

Face	Mounting	Thickness
Flat	A, F-50, J	1" 1½" 2"
Patterned	A, F-50 J	1½"



WHITE
Benjamin Moore
2112-70
American White
LRV-74



LIGHT GRAY
Benjamin Moore
2133-60
Sidewalk Gray
LRV-61



MEDIUM GRAY
Benjamin Moore
1608
Ashland Slate
LRV-16

WHAT STC CAN DO FOR YOU

The STC Hi-Sabin Panel provides a host of benefits for building owners, commercial tenants, interior designers, and customers. We're happy to answer your questions and provide any technical guidance required. If you're interested in learning more about the STC Hi-Sabin Panel, free free to reach out to talk with us directly.

**Contact us
via web, phone, or email
below.**