

EKHO

INFRASTRUCTURE
SOLUTIONS

SOUNDZERO™ NOISE BARRIER

A lightweight, composite acoustical barrier system designed for structure mounted noise wall applications.

A new horizon of infrastructure possibilities

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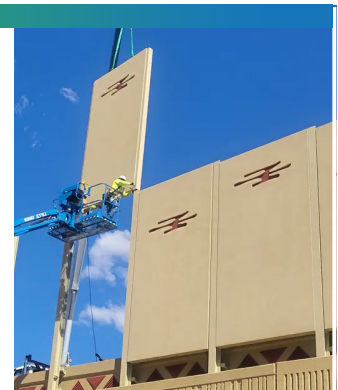
- 35 YEARS OF WORK IN PLACE
- DROP IN PLACE, FULL HEIGHT PANELS
- LIGHTWEIGHT (8-12 PSF)
- LIFE SAFETY - PASSIVE RESTRAINT SYSTEM (PRS)

Lightweight Acoustical Systems Built for Infrastructure.

SoundZero™ is a lightweight acoustical barrier engineered for transportation infrastructure where structural loading is a key consideration. Its composite material minimizes dead load while delivering effective traffic noise mitigation and can be customized for project-specific wind loads, heights, connections, and site conditions.

HOW IT WORKS

SoundZero™ features full-height, seamless composite panels with a continuous structural steel core, polystyrene insulation, and a fiberglass-reinforced finish. An integrated passive restraint system (PRS), connected directly to the core, provides added safety and panel restraint in the event of an impact.



APPLICATIONS



Roads & Highways



Bridges



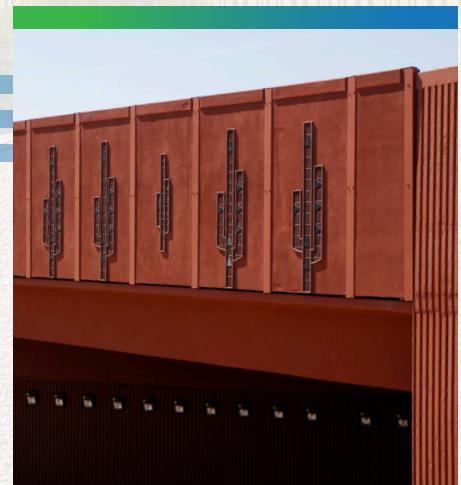
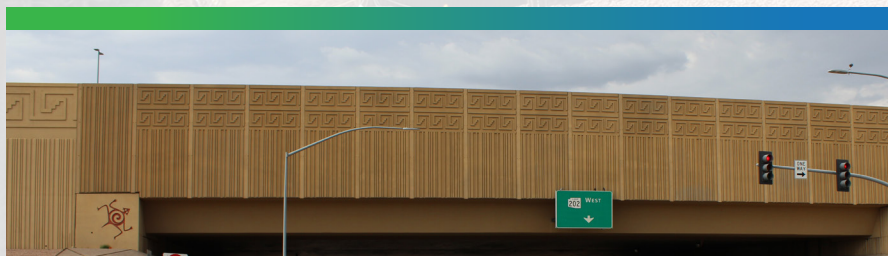
Elevated Structures

ENGINEERED FOR SAFETY

Unsurpassed when life safety is an issue, Sound Zero™'s internal passive restraint system (PRS) protects both the community and travelling public in the event of an accident. SoundZero™ uses an internal cable & bolt combination that prevents panels and debris from departing the structure, which often accompanies a serious accident.

COLORS & TEXTURES

Color and texture choices are unlimited. Choose from a variety of popular finishes or customize to your architectural requirements.



Designed Beyond Performance

Custom textures, finishes, and graphics transform SoundZero™ into an architectural feature that compliments the surrounding environment.



FEATURES & BENEFITS

 AESTHETIC OPTIONS	• Flexible design options allow for architectural, eye-catching, and site-specific solutions that seamlessly integrate with any setting.
 NOISE MITIGATION	• Engineered to effectively minimize sound transmission. (STC Rating = 33)
 CONSTRUCTABILITY	• Lightweight design (8-12 PSF) allows for quicker installation, easier handling, and reduced equipment requirements. • Full height, custom designed panels streamline construction timelines. • Effectively integrated with other wall systems, providing an ideal solution where structure-mounted and ground-mounted systems interface.
 STRUCTURAL	• Proven longterm durability leading to minimized maintenance costs. • Ideal where parallel barriers are necessary.



DESIGN DETAILS

PANEL THICKNESSES

Available in 3.5in (88.9mm) up to 12in (304.8mm) thickness.

FULL HEIGHT PANELS

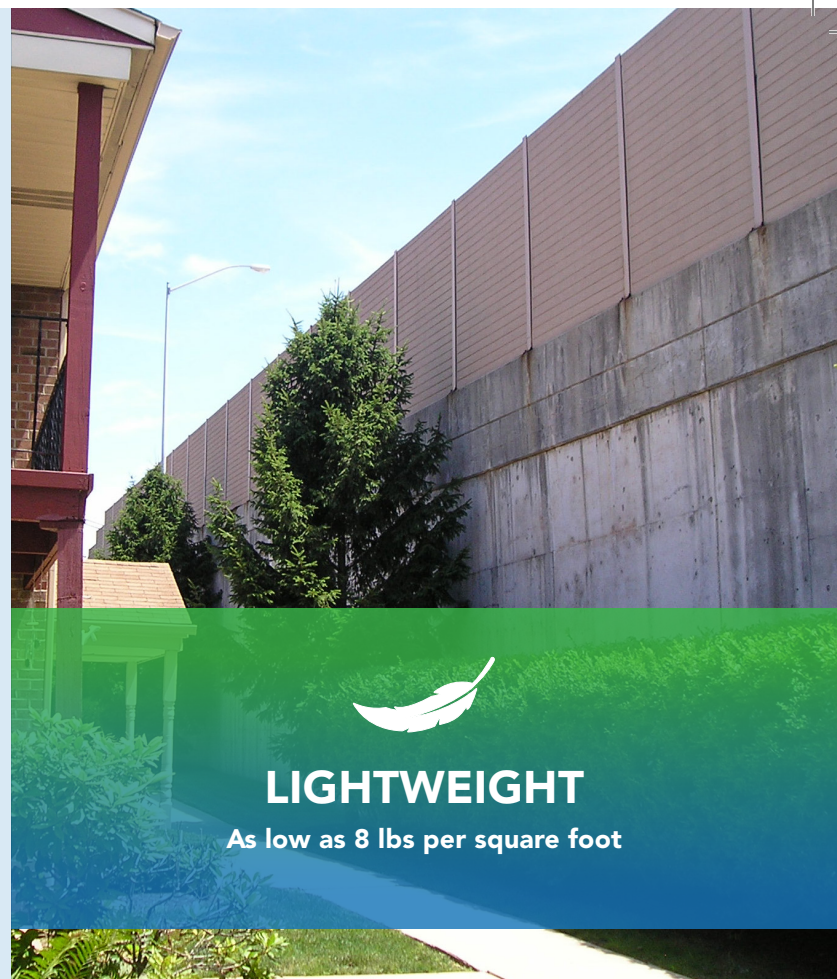
10ft (3m) x 32ft (9.8m)

MOUNTING

Can be incorporated onto all structure-mounted applications.

POST WIDTH

Typically ranges from 8ft (2.4m) to 10ft (3m). Can be customized based on project specifics and architectural design.



At just 8–12 PSF, SoundZero™ is an ideal solution for Type II structures where minimizing dead load is critical, while maintaining acoustic performance and Life Safety PRS integration.



Test No.	Results
ASTM E84	FLAME SPREAD = < 25 SMOKE DEVELOPED INDEX ≤ 450
ASTM E90	33 STC RATED

From lightweight construction to architectural flexibility, SoundZero™ gives designers and engineers greater freedom to solve complex noise and safety challenges.

Discover what's possible with EKHO Infrastructure Solutions.





SOUNDZERO™ NOISE BARRIER

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