



# SOUNDSORB

by Concrete Solutions International

SoundSorb is a sound absorptive cementitious material produced exclusively by CSI. This durable material provides structural concrete precast panels with AASHTO compliant state-of-the-art sound absorptive capabilities

Typical uses for noise abatement include all modes of the transportation, industrial noise reduction, as well as all commercial residential aviation cooling tower, emergency generation station, and generator noise.

What makes SoundSorb different? CSI can customize SoundSorb to meet and exceed the noise mitigation specifications for HSR, elevated rail, light rail and all highway and industrial noise abatement projects. CSI's focus is on providing the most cost-effective sustainable solution to the transportation industry worldwide.



## Ratings

SoundSorb offers exceptional acoustical test ratings.

As seen in the charts below, SoundSorb material can be customized using thickness and texture to meet and exceed transportation authority specifications. Our product has versatile uses from railways to HVAC containment to highway barriers.



Sound Absorptive Barriers



### 🔥 Fire Testing

**ASTM E 84-95 Results:**  
Class A

**UL Flame Spread Results:**  
Zero flame/smoke

**Combustibility:** E136

### ➡ Thermal Conductivity

Dynatech Lab  
Cambridge, Mass., USA

K = .70 per inch

R = 1.43 per inch

### ❄️ Freeze-Thaw

ASTM C-666 B method (passed)

### Acoustic Properties of SoundSorb

Frequency (Hz)	125	250	500	1000	2000	4000	Values
ASTM C-423	.23	.60	1.25	.97	.95	.96	NRC .95
ASTM E-90	.39	.40	4.5	51	.58	59	STC 51

(E-90 test performed with 3 inches SoundSorb and 2.5 inches of concrete structural backing)

### SoundSorb ASTM C-423 NRC Ratings

Tested at a thickness of 3.5" = NRC 1.00

Tested at a thickness of 3.0" = NRC .95

Tested at a thickness of 2.5" = NRC .85

Tested at a thickness of 2.0" = NRC .80

As thickness increases, SoundSorb absorptive properties increase.

## Cost Effective

SoundSorb is the most cost-effective noise absorbing material solution available. SoundSorb's high acoustical properties allow for the noise wall design height to be reduced using less material than the competition.

## Durability and Maintenance

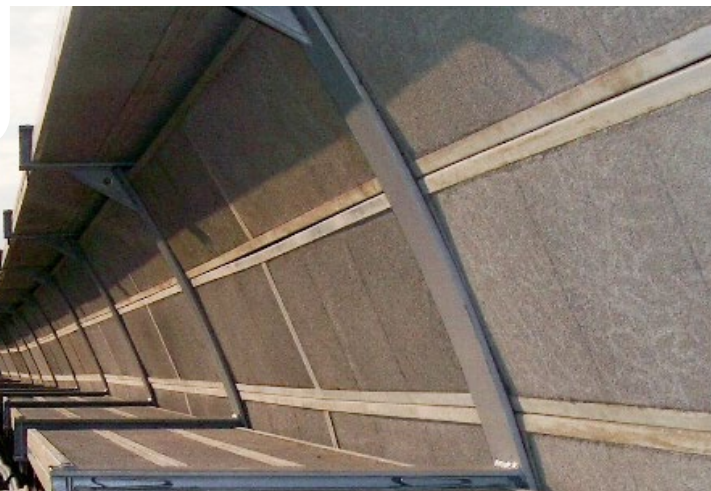
SoundSorb uses the highest quality ingredients to withstand regular environmental wear. In the case of accidental damage, the material can be easily repaired. For acoustical tiles, individual panels can be replaced. Graffiti or other surface damage can be cleaned using non-toxic citrus-based solvents followed by re-staining, if needed.

## Customization

SoundSorb's proprietary ingredients are mixed with cement to give it structural integrity required meet the durability requirements of the transportation authorities. Due to SoundSorb's incredible flexible precast capabilities (i.e. casting on curved parapets or casting double sided sound absorptive wall panels almost any size), the material can be colored and shaped to your specifications.

## Completely Weather Resistant

Durable under all weather conditions. SoundSorb is a time-tested proven material that been utilized on millions of square feet of transportation noise attenuation projects in some of the harshest climate conditions worldwide.



## Existing Walls?

SoundSorb Cladding is the perfect solution for reducing noise pollution for existing walls. Lightweight retrofit cladding panels provide a cost-efficient solution with added benefits of customized texture, color and sound absorption of previously constructed walls.

SoundSorb cladding sizes can be customized to allow easy installation by contractors subs on their construction projects, such as retrofit cladding designed for emergency generator stations, transformer towers, chiller walls, industrial noise, highway noise, barriers, theaters, and convention centers.

## Case Studies & Specifications

Visit [SoundSorb.com](http://SoundSorb.com) to request Case Studies and access to Technical Specifications.

## Contact CSI

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