Noise Abatement Products
Tire and rail sounds are the primary sources of noise with a frequency range within the 400 to 1250 hz range. SoundSorb is designed to eliminate the reflection of noise within that range. Acoustical performance can be further enhanced by adding a textured or molded surface.

SoundSorb®
This durable material is wet-cast during the precast production and is integrated with the structural portion of the panel to become an AASHTO-compliant barrier system with excellent sound absorptive qualities. Typical uses for noise abatement include all modes of transportation and industrial noise reduction, as well as all commercial, residential, aviation, cooling tower, emergency generator station and generator noise.

SoundSorb Cladding
Existing walls creating reflective noise problems can benefit from this lightweight, retrofit panel, providing a cost-effective solution. Proper sizing allows easy installation by a single worker and is designed to retrofit emergency generator stations, transformer towers, chiller walls, industrial noise, reflective highway noise barriers, theatres and convention centers.

SorbShield
A unique hydrophobic solution without solids for use with porous and nonporous materials, SorbShield renders acoustical materials sound absorptive during wet weather conditions, dramatically and continually repelling water. Sound enters the porous cement-based surface but rain drops cannot, thus maintaining the material’s acoustic qualities. Ultraviolet light does not deteriorate SorbShield as it does other water repellants, but actually enhances its performance. Concrete Solutions, Inc. is a distributor of SorbShield.

Contact CSI or your area manufacturer for details:
Concrete Solutions, Inc. (CSI)
Licensor of SoundSorb
3300 Bee Caves Road, Suite 650
Austin, TX 78746
Ph: 512/327-8481
Email csi@soundsorb.com
Web www.soundsorb.com
life’s ever increasing hectic pace creates noise – noise from highways, railways, industry and other pollution sources that adversely affect each of us every day. Concrete Solutions, Inc. (CSI) has the answer to noise abatement, no matter what the situation. It’s SoundSorb, a unique cement-based acoustic material that minimizes the effects of noise, providing a state-of-the-art sound absorbing solution to all types of noise concerns. SoundSorb exceeds acoustic requirements specified by transportation authorities, making it the elite product in noise abatement with millions of square feet of SoundSorb installed around the world.

**SoundSorb – The Premier Product for Sound Abatement**

Sound absorption lab tests measure the noise level reduction properties attributed to the sound absorbing qualities of a material. Products in this category are typically measured via the Noise Reduction Coefficient (NRC), an average of four hertz frequency readings (250, 500, 1000 and 2000) with optimal NRC values described as an NRC 1.0. CSI’s SoundSorb material reaches this optimal level at a thickness of 3.5 inches. Compare these results with other acoustical concrete materials and you will see that SoundSorb exceeds acoustic requirements specified by transportation authorities, making it the elite product in noise abatement with millions of square feet of SoundSorb installed around the world.

**SoundSorb ASTM C-423 NRC Ratings**

- Tested at a thickness of 3.5” = NRC 1.00
- Tested at a thickness of 3.0” = NRC 0.95
- Tested at a thickness of 2.5” = NRC 0.85
- Tested at a thickness of 2.0” = NRC 0.80

As thickness increases, so will the sound-absorptive properties of SoundSorb.

**Extremely Durable**

Design engineers appreciate the fact that SoundSorb is an advanced, open cellular, free draining, cement-based material, with the life-span of concrete. SoundSorb is freeze-thaw resistant due to its free-draining, porous nature. The material achieves a Class A rating in ASTM smoke and flame tests and is nonflammable.

**Seismic and Hurricane Resistant**

Lightweight walls that incorporate SoundSorb can be designed to be hurricane and earthquake resistant, has been approved for use by California Transportation Department.

**Wall Height**

The average height of a noise wall is 13 feet. SoundSorb can be integrated into any size of wall design solutions. SoundSorb is an advanced open cellular, free draining, cement-based material, with the life-span of concrete.

**Diversity in Design**

CSI aligns itself with concrete manufacturers internationally that have developed economic wall design solutions. Since SoundSorb is a wet-cast product, it is easily integrated into many unique cost-effective concrete wall designs. SoundSorb’s unique molding characteristics allow it to be used with almost all sizes, designs, textures, molds and colors, including customized projects. Design engineers are urged to contact CSI during the noise barrier design phase to provide their client with an aesthetic touch while specifying cost-effective wall design solutions. Visit our company website at [www.soundsorb.com](http://www.soundsorb.com) for specifications or contact CSI directly for more information.

**The Cost-Efficient Option**

While SoundSorb is of the highest quality, it is also one of the lowest cost sound absorptive indoor/outdoor materials on the market. Sourcing and manufacturing ingredients locally, utilizing efficient designs and texturing methods, thus avoiding long-distance shipping costs as all contribute to cost savings. Even lower costs are achieved when producing full height monolithic panels to avoid the increased expenses associated with stacked panel production and installation.

**Another Sound Solution: Cladding**

For existing noise-reflective concrete surfaces, SoundSorb cladding panels provide a lightweight noise abatement solution. These retrofit panels are easy to install and typically require only one person to handle them. Custom design texturing and coloring are also available.

**Texture and Color**

It’s easy to create a textured surface with SoundSorb, whether it is stamped or poured into molds. Fractured fin, granite, barn wood or brick textures, including custom designs and will work together with you to create your own unique pattern or design combination. Contact CSI for more details.