



# SoundSorb® Technical Data

## *Sound solutions for the transportation industry*

### **Description**

SoundSorb is a durable, cementitious, acoustic material that integrates with concrete. It is produced with patented mixing methods using cement and specific proprietary ingredients.

### **Variety of Uses**

SoundSorb material is highly sound absorptive and is used for acoustical and fireproof values.

### **Acoustic Testing Results**

ASTM C-423: NRC 1.0 @ 3.5" thick

ASTM C-423: NRC .95 @ 3" thick

ASTM E-90: STC 51 w/ concrete backing

### **Aesthetics**

- Replicates any liner surface, such as rustic barn wood, fractured fin, granite and brick, as well as custom designs.
- Standard concrete stain may be sprayed over the surface allowing for greater color choices.
- Iron oxides can be mixed with SoundSorb to colorize the material throughout.
- Anti-graffiti coatings are available.

### **Fire Testing**

ASTM E 84-95 Results: Class A

UL Flame Spread Results: Zero flame/smoke

### **Thermal Conductivity**

Dynatech Lab, Cambridge, Mass., USA

K = .70 per inch

R = 1.43 per inch

### **Freeze-Thaw**

ASTM C-666 (passed 300 cycles)

### **Cost Competitive**

SoundSorb sound-absorptive walls and barriers are cost competitive with reflective barriers depending on the wall design.

### **Weather Resistant**

Durable under all weather conditions. No rotting, rusting, warping or discoloration and is mildew resistant. SoundSorb is freeze-thaw resistant due to the free-draining nature of the material.

### **Easy Maintenance**

Water-resistant coating can be applied to surface to maintain sound absorption. Walls and barriers can be washed and will maintain effectiveness. Textured surfaces help reduce maintenance.

### **Easy to Fabricate**

Basic precast molding techniques are used in the fabricating process.

### **Lightweight**

Material is 42-48 lbs. per cubic foot (dry wt.)

### **Installation**

SoundSorb can be integrated into full-size or stackable panels for easy installation.

### **Versatile Wall Designs**

This material can be integrated into most wall designs, including texturing both sides of a wall. Textured liners can be used to press top-side texture into material. Custom work is also available.

### **Employs Local Labor, Reduces Shipping Costs**

Precast companies are licensed on a state or regional basis; local labor is used to manufacture and erect walls. Walls and barriers do not need to be shipped long distances.

Contact CSI for manufacturing opportunities or for more information.

### **Concrete Solutions, Inc. (CSI)**

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*featuring*  
**SOUNDSORB®**  
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