Sound Absorbing Structural Masonry Units
www.soundblox.com

Architectural Acoustical Masonry Units
www.soundcell.com

Acoustical Products
www.noisemaster.com
Proudfoot Architectural Acoustics
The Proudfoot Company, Inc. is an industry leader in acoustical correction and noise control. Since 1965, Proudfoot has worked with architects and engineers to control noise levels on a wide variety of projects through the incorporation of its SOUNDBLOCK products. Tens of millions of these popular units are in place around the world today.

An Introduction to SOUNDBLOCK
SOUNDBLOCK units are the solution to acoustical correction and noise control problems in masonry construction. Attractive, economical, and efficient sound absorbing units, SOUNDBLOCK are made locally near the jobsite by carefully selected quality concrete block producers. These producers employ patented Proudfoot molds designed to fit standard automatic block machines — thereby assuring uniform quality and acoustical efficiency of each SOUNDBLOCK unit.

SOUNDBLOCK Masonry Units are Structural and Load-bearing
SOUNDBLOCK have the same compressive strength as standard hollow concrete masonry units of similar composition. Installed conventionally with little or no added labor, the in-place cost of SOUNDBLOCK is low by comparison to most other acoustical materials. Rugged and durable in construction, SOUNDBLOCK masonry units are an excellent choice for industrial settings, gymnasiums, mechanical equipment rooms, and comparable installations.

A Close Up Look At SOUNDBLOCK
SOUNDBLOCK derive their excellent sound absorption from a unique cavity-slot resonator construction. The cavities are closed at the top and the slots allow the cavities to function as damped (Helmholtz) resonators — an excellent sound absorption tool at low frequencies. The slots of the RSR, RSC and Q Type units are funnel-shaped for superior acoustical performance.

The amount of sound absorbed by properly installed SOUNDBLOCK is increased dramatically when units incorporating a metal septum (membrane or divider) and fibrous filler in the cavity are specified. Together with funnel-shaped slots, these units provide higher levels of sound absorption across a wider range of frequencies. In addition to sound absorption, SOUND-

### SOUND TRANSMISSION LOSS CHARACTERISTICS

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>125</th>
<th>250</th>
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<th>1000</th>
<th>2000</th>
<th>4000</th>
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<td>56</td>
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<td>44</td>
<td>48</td>
<td>57</td>
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</table>

The sound transmission loss values shown above were determined in accordance with ASTM methods by ETL Laboratories in Cortland, NY and Riverbank Laboratories in Geneva, IL. The SOUNDBLOCK walls were sealed on the unslotted side using two coats of Thoroseal before testing. This wall was tested with the two rear cores filled with sand. See pages 3, 4 & 5 for NRC test results.

Materials & Resources (MR) Credits
- Resource Reuse (either recycled or reused cotton fibers) 1-2 pts. Credit 3.1-3.2
- Recycled Content (the "Green" filler insert contains over 75% post industrial recycled content) 1-2 pts. Credit 4.1-4.2
- Rapidly Renewable Material (Cotton) 1 pt. Credit 6.0
- Local/Regional Materials (Made in the USA) 1-2 pts. Credit 5.1-5.2

Indoor Environmental Quality (EQ) Credit
- Low /Emitting Materials (the "Green" filler insert contains no formaldehyde or resins and does not off-gas) 1 pt. Credit 4.4

Innovation in Design Credits (ID) Credits
- Enhanced Acoustical Performance
- Innovative Material Choice
Type RS: 4" & 6" have three (3) sequential cavities, two (2) flared slots, metal septa and fibrous fillers, and an NRC rating of .80 and .85 respectively.

Type RSC (6"

Type RS: 8" & 12" have four (4) sequential cavities, two (2) flared slots, metal septa and fibrous fillers, and an NRC rating of .80 and .85 respectively.

Type RSC (12"

### Sound Absorption Coefficients — Type RSC

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Surface</th>
<th>Exposed Slots/Cavities</th>
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<th>160</th>
<th>200</th>
<th>250</th>
<th>315</th>
<th>400</th>
<th>500</th>
<th>630</th>
<th>800</th>
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<td>.22</td>
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<tr>
<td>6&quot;</td>
<td>RSC</td>
<td>PAINTED</td>
<td>2/3</td>
<td>.48</td>
<td>.70</td>
<td>.93</td>
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<td>1.05</td>
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<td>.56</td>
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<td>.59</td>
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<tr>
<td>8&quot;</td>
<td>RSC</td>
<td>PAINTED</td>
<td>2/4</td>
<td>.48</td>
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<td>1.17</td>
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<td>.98</td>
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<tr>
<td>12&quot;</td>
<td>RSC</td>
<td>PAINTED</td>
<td>2/4</td>
<td>.57</td>
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<td>*</td>
<td>.94</td>
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<td>.54</td>
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</table>

The above sound absorption data was determined by tests conducted at Geiger and Hamme Acoustical Laboratory in strict compliance with ASTM C423 specifications. Actual installed performance may vary.

*Measurements at these frequencies were not taken.

### Architectural Finishes

SOUNDDBLOX® can be painted and are available in a variety of colors and architectural finishes, including:

- Ground-Face
- Burnished
- Deco-Face®
- Spectra-Glaze®
- Split-Rib®

Check your local SOUNDDBLOX® producer for available architectural finishes in your area.

*Split-Rib (Type RS) are available in 8" thickness only.

Deco-Face® is a trademark of E.P. Henry, Woodbury, NJ.

Spectra-Glaze® is a trademark of The Burns & Russell Co., Baltimore, MD.
Reinforced Masonry

6" RSC SOUND BLOX

6" RSC SOUND BLOX

STRAIGHT-THROUGH
CAVITIES

SOUND ABSORPTION COEFFICIENTS — TYPE RSC/RF

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Surface</th>
<th>FREQUENCY — Hertz</th>
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<td>125</td>
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<tr>
<td>8&quot;</td>
<td>RSC/RF</td>
<td>PAINTED</td>
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<td>10&quot;</td>
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</table>

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Left-Hand and Right-Hand Units

For situations requiring a full core for vertical reinforcement, SOUND BLOX units with open cavities on either the left- or right-hand side are available. When used in conjunction with standard SOUND BLOX units, reinforcing bars and grout can be incorporated easily and efficiently. SOUND BLOX left-hand and right-hand units have been approved for use in reinforced masonry construction and are allowed 90% of the shear value of ordinary hollow concrete block.

Type RSC/RF

Special SOUND BLOX unit providing the sound absorption of Type RSC units. Incorporates a metal septum and filler, and two additional large, straight-through cavities, allowing specification of this unit in applications requiring vertical reinforcing, thermal insulation or accommodations for vertical conduits and/or pipes. Available in 8", 10" and 12" thicknesses. For specific dimensions and structural property details of RSC/RF units, contact the Proudfoot Company, Inc.

Type 12" RSC/RF

For additional groutable area

4" RSC SOUND BLOX

Split face on exterior for single wythe construction. (Available in 12" RSC/RF and 12" RSC/RF4 only)