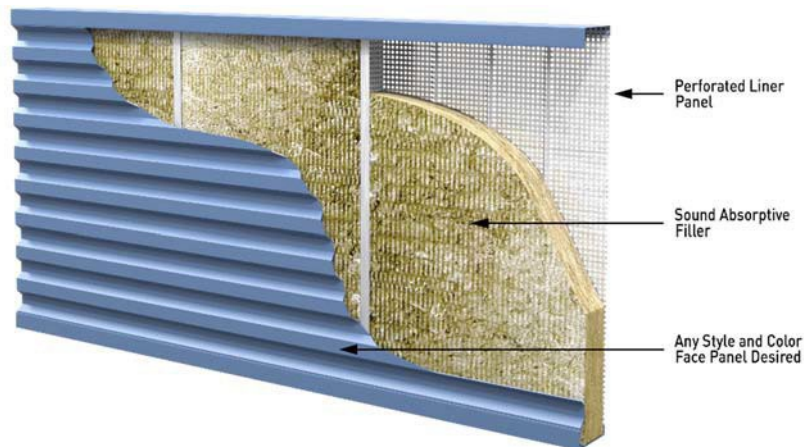


SoundGuard® Acoustic Panel System



Description:

The SoundGuard® Acoustic Panel System is a sound attenuating barrier assembly designed for aesthetics as well as noise control. The outward facing panels of the system can be any desired material allowing uniformity of color, texture and profile with other elements of the building. A selection of configurations are available to fit project-specific STC and NRC requirements.

Material:

- Front panel: per customer specification.
- Rails and tracks: galvanized 16 ga steel.
- Absorptive material: mineral wool.
- Back panel: perforated Galvalume steel. Optional upgrade: perforated stainless steel.
- Additional materials on select configurations: butyl sealant, horizontal girts, galvanized intermediate leaf.

Application:

The SoundGuard® system is engineered for acoustical enclosures and noise barriers where structural integrity, sound absorption and transmission loss are of major concern. SoundGuard® panels are designed for outdoor applications. This acoustic panel system is engineered to be mounted over open framing such as the RoofScreen framing system or structural steel supports.

Exterior Panel Characteristics:

Panels used for the outward facing surface can be chosen from the entire list of panel types offered by RoofScreen. Face panels sourced elsewhere may also be used if they meet the structural properties required.

PRODUCT DATA SHEET



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Updated 11.29.2025

Mineral Wool Specifications:

Mineral Wool conforms to Federal Specifications HH-1-558B and ASTM Standard E-136 and has the following characteristics:

- Actual density of 6 pounds per cubic foot.
- Nominal density of 8 pounds per cubic foot.
- Is non-hygroscopic and absorbs less than 1% water.
- Melts above 2,000 Degrees Fahrenheit, has a flame spread of 15 or less and a smoke development of 0 when tested in accordance with ASTM Standard E-84, is rated incombustible by ASTM Standard E-136.

Acoustical Performance Standards:

SoundGuard® comes in a variety of configurations engineered to suit a range of STC requirements.

STC and NRC values on the table below are verified by third party testing and measured in accordance with the requirements of ASTM E90 and ASTM C423 respectively.

Configuration	NRC	STC	Notes
SG32	1.05	32	Standard configuration
SG38	1.05	38	Standard acoustic air gap configuration
SG40	1.05	40	Enhanced noise reduction with acoustic air gap
SG42	1.05	42	Optimized performance with larger acoustic air gap
SG48 Custom	1.05	48	Custom-engineered solution for industry-leading performance

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Perforated Panel Characteristics:

Material	Thickness	Hole Size	Hole Shape	Hole Centers	Hole Direction
Galvalume or Stainless Steel	24ga	1/8"	Round	3/16"	Staggered

Warranty:

When RoofScreen provides project design and engineering calculations, a 20-year limited warranty is included.