

# PVC NOISE BARRIER SYSTEMS PRODUCT GUIDE

**A LIGHTWEIGHT POST-AND-PANEL NOISE BARRIER SYSTEM  
ENGINEERED FOR OPTIMAL ACOUSTIC PERFORMANCE**



**SILENTIUM**  
GROUP INC.

[SILENTIUMGROUPCO.COM](http://SILENTIUMGROUPCO.COM)



## A PVC NOISE BARRIER DESIGNED TO SOLVE YOUR NOISE CONCERNS

Silentium is your reliable source for light-weight noise barrier solutions. We provide engineered wall systems for many sectors and applications that are economical, locally manufactured, and custom designed to suit your project needs.

## PVC NOISE BARRIERS & PRIVACY SCREENS

Extruded Rigid PVC is a durable and easy-to-install wall panel. Our complete post-and-panel wall systems can be designed to withstand harsh roadside conditions, but lightweight and versatile atop bridges and buildings.

## APPLICATIONS



Industrial, Commercial, Institutional Properties



Roads, Highways & Bridges



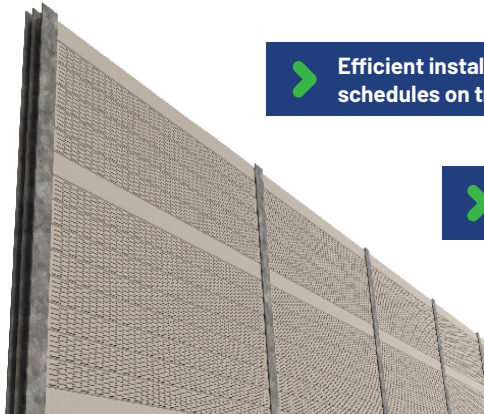
Residential Developments



Building Rooftop Screens



Perimeter Walls & Enclosures



Efficient installation helps to keep construction schedules on track

Suitable for a multitude of application types

Maintenance Free & UV protected for all-weather conditions



RTU PVC Noise Barrier  
Harrisburg, PA

## A TRIED & TESTED NOISE WALL OPTION

Silentium PVC Noise Wall Systems are tailor engineered to meet your project needs, and backed by a ten year warranty. Our PVC wall systems boast exceptional durability, lasting up to 30 years in the field. Whether installed on rooftops or roadsides, longevity and reliability is ensured.



## FEATURES & BENEFITS

### Lightweight panels

- Reduced material weight required for rooftop and bridge designs

### Acoustic properties

- Single sided absorptive
- Reflective

### Maintenance-free

- UV protected to prevent color fade
- Panels are free-draining

### Easy-installation

- Lightweight panels can be installed by hand
- Tongue & Groove connection

### Design

- Available in white, gray or tan colors

## ABSORPTIVE OR REFLECTIVE PVC PANELS

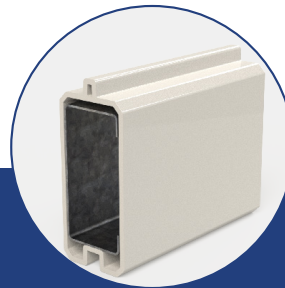
Silentium offers two types of acoustic PVC panels:



**Absorptive (APVC)**

### APVC Panels

- Manufactured with slots on the front face of the panel and acoustic mineral wool enclosed within the absorptive panel.
- Proven and tested properties to consistently reduce noise.
- Noise absorptive panels can be combined with reflective panels.



**Reflective (RPVC)**

### RPVC Panels

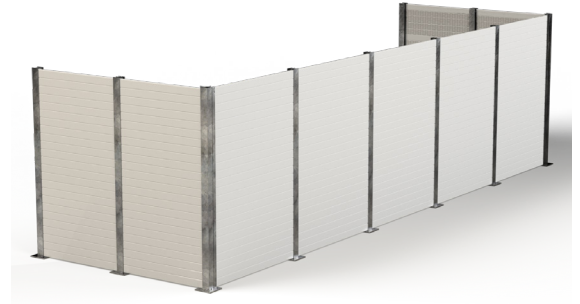
- Panels can contain a galvanized metal channel within it, for added strength and reflects noise away.
- Structural panels provide strength to the wall by moving forces on the barrier to the vertical posts.
- The quantity of structural panels required is determined by specific wind loads, post spacing and wall height of each project.



## ECONOMICAL SOLUTION TO MEET IMMEDIATE NEEDS

### ON DEMAND INVENTORY, OR RAPID PRODUCTION SCHEDULE

This engineered solution offers a short lead time for production, and can be fabricated and shipped to site in as little as eight weeks. Our dedicated manufacturing facility has the capacity to maintain some inventory, enabling prompt fulfillment of on demand requests for small projects.



## DESIGN DETAILS

### Posts:

- Standard Steel posts.
- 10'-0" post spacing.

### Footings:

- Included within our design scope
- Adaptable to various foundation types.

### Mounting:

- Structure or ground-mounted designs.
- Gravity-mounted design options available for roofs.



PANEL TYPE	DIMENSIONS	SYSTEM WEIGHT
Silentium APVC	Both APVC & RPVC are available in the following dimensions:  5.9" H x 2.75" W Panel lengths available up to 16'	21 kg/ m <sup>2</sup> or 4.3 lbs/ ft <sup>2</sup>
Silentium RPVC		20 kg/ m <sup>2</sup> or 4.1lbs/ ft <sup>2</sup>

TEST NO.	RESULTS
ASTM C423	0.95 NRC RATED - ABSORPTIVE PANELS (APVC)
ASTM E90	33 STC RATED - ABSORPTIVE PANELS (APVC) 32 STC RATED - REFLECTIVE PANELS (RPVC)
ASTM D790	FLEXURAL STRENGTH ≥ 70 MPa MODULUS OF ELASTICITY ≥ 33GPa
ASTM D4226	Impact Resistance of Rigid PVC Building Products Results = Mean Failure energy after 2000 hours of accelerated weathering ≥ 80% of initial value.



**SILENTIUM**  
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With a focus on customer satisfaction, we provide engineered wall systems that make noise reduction simple and accessible.

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**Part of the Vision Noise Barrier Group**