

EKHO

INFRASTRUCTURE
SOLUTIONS



PVC NOISE BARRIER SYSTEMS

A lightweight post-and-panel noise barrier system
engineered for optimal acoustic performance.

A PVC Barrier Designed To Solve Your Noise Concerns

EKHO 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

From roadside safety to perimeter security, our customized PVC wall system is a long-term solution for your project.



Efficient installation helps to keep construction schedules on track.

Suitable for a multitude of application types.

Maintenance Free & UV protected for all-weather conditions.

APPLICATIONS



Industrial, Commercial, Institutional Properties



Roads, Highways & Bridges



Residential Developments



Building Rooftop Screens



Perimeter Walls & Enclosures

A TRIED & TESTED NOISE WALL OPTION

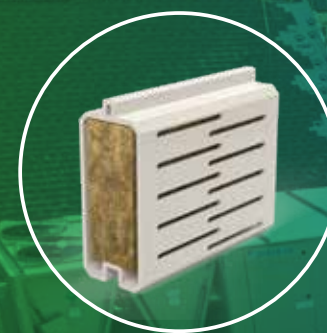
EKHO PVC Noise Wall Systems are tailor engineered to meet your project needs, and backed by a ten year warranty. Our PVC wall systems boast exceptional durability, lasting up to 30 years in the field. Whether installed on rooftops or roadsides, longevity and reliability is ensured.



FEATURES & BENEFITS

- ✓ **Light-weight panels**
 - Reduced material weight required for rooftop and bridge designs.
- ✓ **Acoustic properties**
 - Single-sided absorptive panels.
 - Reflective panels.
- ✓ **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.

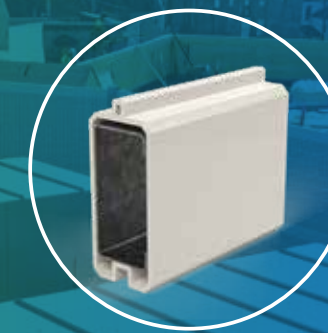
ABSORPTIVE (APVC)



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)



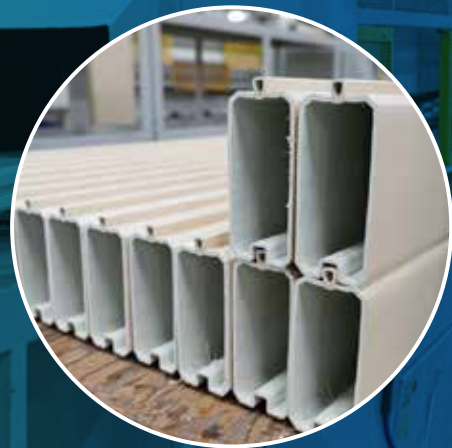
RPVC PANELS

- 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 rooftops.

| Panel Type | Dimensions | System Weight |
|------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| EKHO 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 ² or 4.3 lbs/ ft ² |
| EKHO RPVC | | 20 kg/ m ² or 4.1lbs/ ft ² |

| Test No. | Results |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| ASTM C423 | 0.95 NRC RATED - ABSORPTIVE PANELS (APVC) |
| ASTM E90 | 32 STC RATED - ABSORPTIVE PANELS (APVC) 33 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. |

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Canada: 45 Frid Sreet, Suite 1, Hamilton, ON L8P 4M3

U.S.A.: 10 Campus Boulevard, Newtown Square, Pennsylvania, 19073
email@ekhois.com

ekhois.com

