

EKHO | ROADS & HIGHWAYS

ROADS AND HIGHWAYS

A New Horizon of Infrastructure Possibilities



Custom Reflective Precast Noise Barrier

Building Quieter, Safer Transportation Networks.

Modern transportation infrastructure demands more than durability. It requires solutions that reduce noise, improve safety, withstand evolving environmental pressures, and integrate seamlessly into the communities they serve.

EKHO delivers engineered infrastructure systems for highways, bridges, interchanges, and urban corridors across North America.

The EKHO Advantage

With thousands of transportation projects delivered across North America, EKHO provides the proven expertise and integrated capabilities needed to support even the most complex infrastructure programs.

Our MTO and DOT approved solutions include MASH crash-tested safety systems, supported by North American manufacturing and engineering expertise from initial concept through execution.

With customized design, sustainable product innovation, and a focus on long-term performance, EKHO helps consultants, engineers, and contractors deliver safer, more resilient transportation networks.


Custom Absorptive Precast Noise Barrier


Transparent Noise Barrier



Bridges

We are the necessary ground support to interchange projects, and we enhance bridges with structure-mounted wall solutions that are lighter, increase visibility, and prioritize safety.

Roadways

We support roadway construction and traffic control with engineered retaining, noise wall and precast solutions - like calming curbs, for safer communities.

Highways

We support highway infrastructure with structure-mounted noise wall systems designed to reduce weight, improve sightlines, and enhance safety on high-speed corridors.

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Custom Absorptive Precast Noise Barrier


Reflective Acoustic Fence


Reflective Precast Noise Barrier

As traffic volumes continue to grow and infrastructure ages, transportation corridors face increasing demands for safety, resiliency and long-term performance. Climate exposure, heavier traffic loads, tighter urban footprints and stricter standards are reshaping how highways and roadways are designed and maintained.

At the same time, communities expect quieter, safer, and more visually integrated transportation systems.

EKHO helps transportation agencies, engineers and contractors solve these evolving challenges through engineered infrastructure systems designed for real world performance. Transportation infrastructure should not only move people efficiently, but it should improve the environment and communities surrounding it.



Built on Proven Results

Proven Infrastructure Expertise Across North America

Built on decades of experience and thousands of projects delivered across transportation sectors, EKHO provides integrated infrastructure solutions engineered for performance, safety, and longevity.

MTO / DOT Approved
Solutions trusted by transportation authorities across Canada and the United States.

MASH Crash-Tested
Certified roadside safety systems designed for high-speed transportation environments.

NRC & STC Rated
Acoustic systems engineered to deliver measurable noise reduction performance.

Engineered for Durability
Designed to withstand heavy traffic, extreme weather, and demanding environmental conditions.

Designed for Constructability
Faster installation methods and modular systems that help reduce project disruptions and accelerate timelines.

Reflective Precast Noise Barrier

OUR SOLUTIONS



NOISE PROTECTION

Reducing Traffic Noise. Enhancing Community Livability.

Transportation noise remains one of the most significant environmental concerns associated with growing roadway infrastructure. Effective barrier systems can significantly reduce roadway noise exposure for nearby communities and urban developments.


Reflective Acoustic Fence

Featured Solutions
EKHO's engineered noise protection systems are designed to reduce sound pollution while improving the visual integration of transportation infrastructure.

- Transparent Noise Barriers
- Absorptive Precast Barriers
- Reflective Precast Systems
- Acoustic Facings
- Aluminum Noise Barriers
- Acoustic Fence Systems
- PVC Barriers
- SmogStop Air Quality Barriers
- Wood Barriers
- RMP Noise Barriers
- SoundZero Noise Protection Walls


TL-4 Transparent Noise Barrier

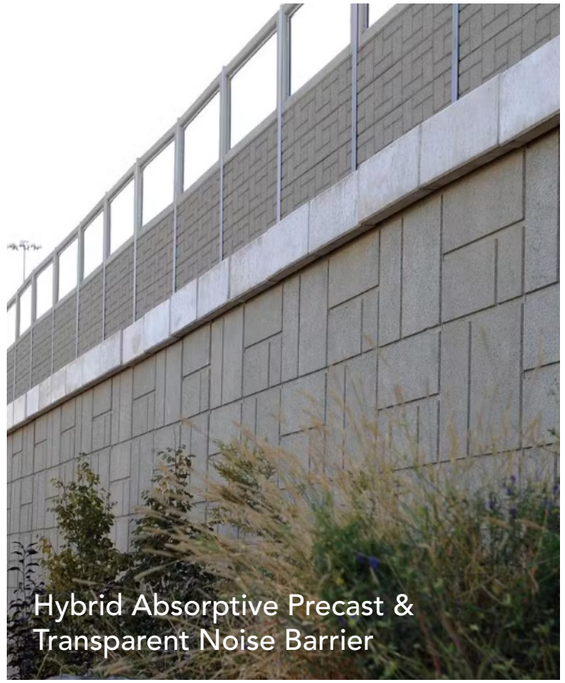
Absorptive Precast Barriers

Durisol is the proprietary name of our durable, lightweight precast concrete material. Composed of natural and recycled material, it is a more sustainable alternative to standard concrete. Made of chemically neutralized and mineralized organic softwood shavings which are specially processed to an acoustically engineered size. When bonded together under pressure with Portland cement, an absorptive panel is born.

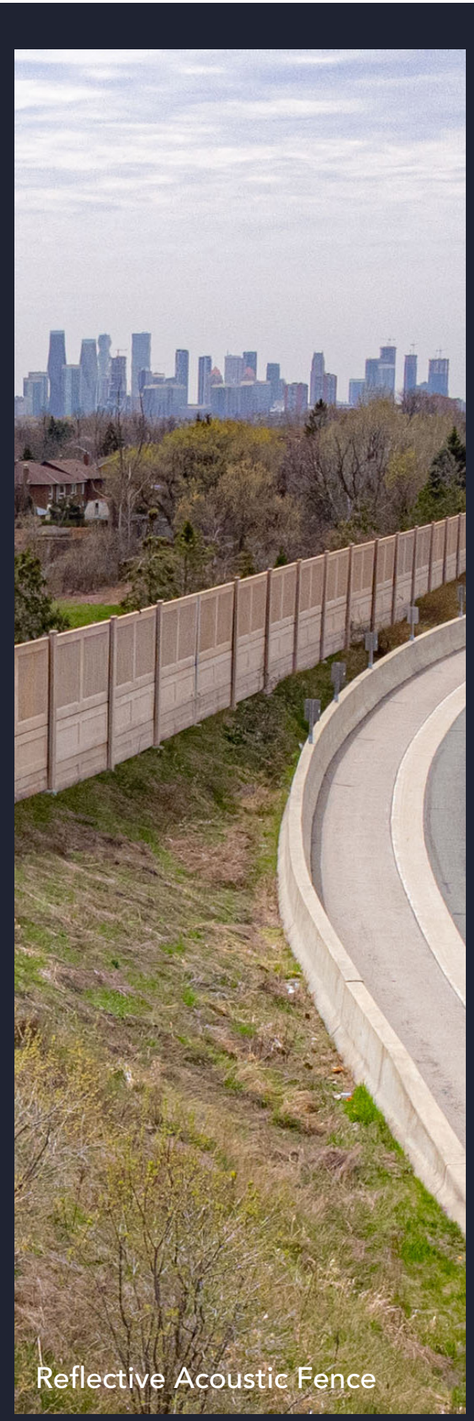
Its durable construction is engineered to withstand harsh environmental conditions while maintaining consistent acoustic performance over decades of service. Designed for flexibility, the absorptive barrier system can be customized with a wide variety of textures, patterns, colors, and integrated features to suit project-specific requirements. Manufactured in NPCA-certified facilities across Canada and the United States, the system supports wall heights of up to 43 feet and can incorporate transparent panels or retaining wall components for blended infrastructure solutions.



Absorptive Precast Noise Barrier



Hybrid Absorptive Precast & Transparent Noise Barrier



Reflective Acoustic Fence

Acoustic Fence

EKHO's International Fence is a precast concrete acoustic fence system that combines privacy, security, and noise reduction in a durable, low-maintenance solution. The system helps reduce traffic noise while providing a strong, long-lasting barrier between busy transportation corridors and surrounding communities. Its concrete construction provides long-term performance with resistance to weathering, deterioration, and environmental conditions.

PVC Noise Barriers

The PVC Noise Barrier System uses customizable PVC panels that provide strong acoustic performance while being significantly lighter than traditional barrier materials, making them ideal for applications where weight restrictions are a concern. With both absorptive and reflective panel options, the system can be tailored to meet specific noise reduction requirements while offering weather resistance, UV protection, and a service life of up to 30 years.



PVC Noise Barrier



PVC Noise Barrier



Aluminum Noise Barrier

Aluminum Noise Barriers

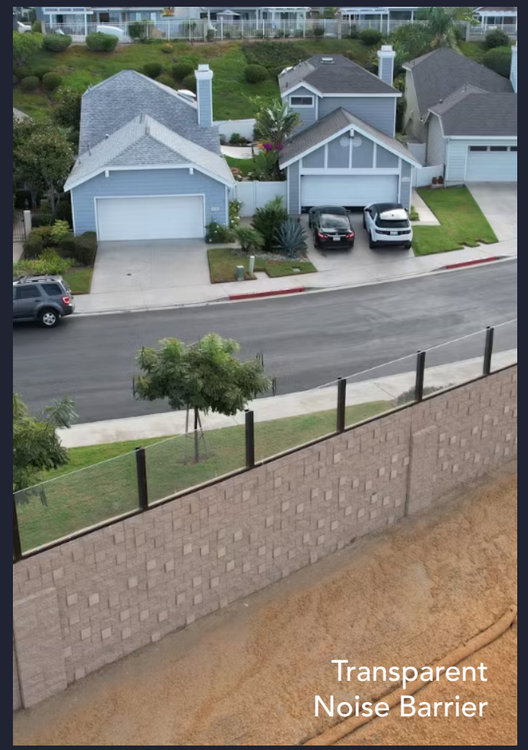
Built with corrosion-resistant aluminum components, the system provides long-term durability while reducing traffic noise and minimizing structural load requirements compared to heavier barrier materials. Its modular design allows for efficient installation and customization, with options for different heights, colours, and acoustic configurations to meet project-specific needs.


Recycled Plastic Noise Barrier

Transparent Noise Barriers

Designed with highly impact-resistant transparent panels, the system effectively reduces traffic noise while keeping open sightlines for drivers, pedestrians, and nearby communities. The transparent design is ideal for scenic areas and urban environments.

Made from specialized acrylic materials, EKHO's Transparent Noise Barriers are 11 times more break-resistant than glass while weighing approximately half the weight of tempered glass.


Transparent Noise Barrier

Sustainable

EKHO's sustainable solutions help create greener infrastructure through innovative materials and environmentally responsible designs. Products like Wood Barriers, RMP Recycled Plastic Noise Barriers, Eco-Flex, and SmogStop Air Quality Barriers reduce environmental impact by incorporating renewable and recycled materials, diverting waste, lowering emissions, and improving air quality along transportation corridors.

- Wood Barriers
- Recycled Plastic Noise Barrier
- SmogStop Air Quality Barriers
- Eco-Flex

SoundZero Noise Protection

Developed to meet the structural and acoustic demands of bridge-mounted and elevated transportation infrastructure, the SoundZero Noise Protection Wall System provides a lightweight, high-performance alternative to conventional noise barriers.



SoundZero Noise Protection Wall



SAFETY SYSTEMS

MASH Crash-Tested Safety Systems

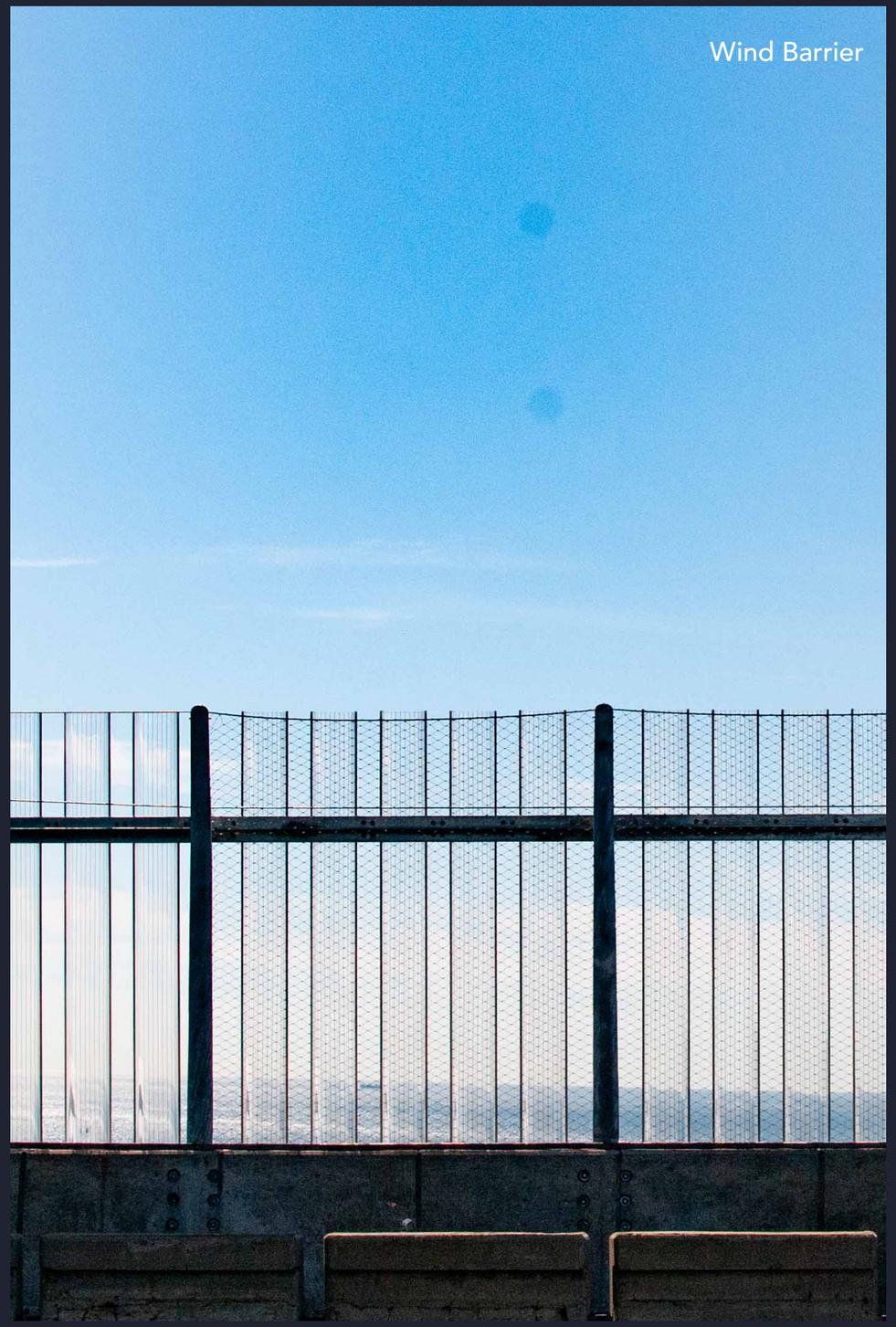
Roadside safety infrastructure must perform when it matters most. EKHO's MASH crash-tested systems are engineered to protect motorists, infrastructure, and surrounding communities while maintaining constructability and design flexibility.

Available Systems
MASH Crash-tested roadside safety systems engineered to increase occupant safety.

- MASH TL-3 Precast Ground Mounted Noise Barrier
- MASH TL-4 Aluminum Structure Mounted Noise Barrier
- MASH TL-4 Transparent Noise Barrier System
- MASH TL-4 Precast Ground Mounted Barrier
- MASH TL-5 Foundationless Noise Barrier
- Wind Barriers & Median Barrier Extensions (MBE)



MASH TL-4 Transparent Noise Barrier



Wind Barrier

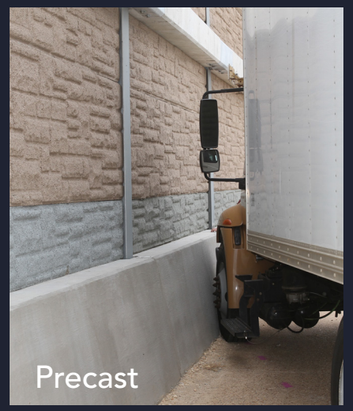
MASH TL-3

Precast

A DOT and MTO approved crash-tested system that combines a reinforced precast concrete traffic barrier with a noise wall to improve both roadway safety and noise mitigation. Designed for high-speed highways, ramps, and road expansion projects.



MASH TL-3 Precast Ground Mounted Noise Barrier



Precast



Aluminum



Transparent

MASH TL-4

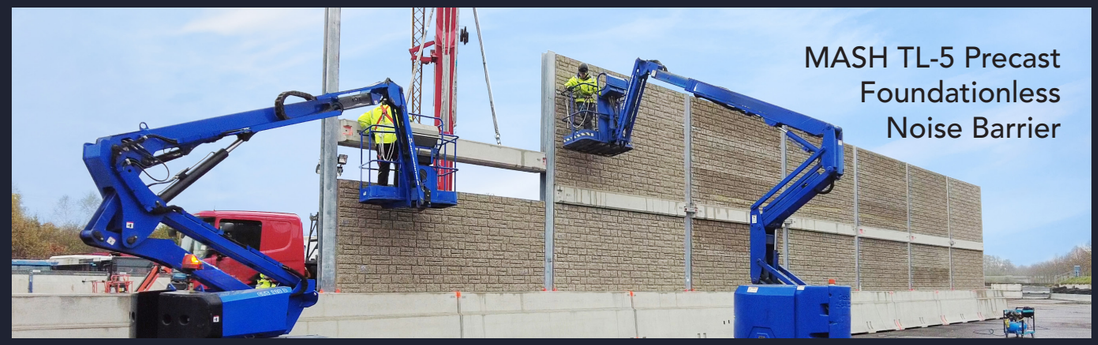
Precast, Aluminum, Transparent

Available in aluminum structure-mounted, precast ground-mounted, and transparent barrier variations, these systems are engineered to meet MASH TL-4 standards while offering modular installation, long-term durability, and customizable finishes.

MASH TL-5

Precast

The MASH TL-5 Precast Foundationless Noise Barrier is North America's first MASH TL-5 integrated noise barrier and vehicle restraint system, combining a durable precast concrete safety barrier with double-sided absorptive panels for maximum noise reduction. Designed for space-limited highway and roadway applications.



MASH TL-5 Precast Foundationless Noise Barrier

Median Barrier Extension (MBE)

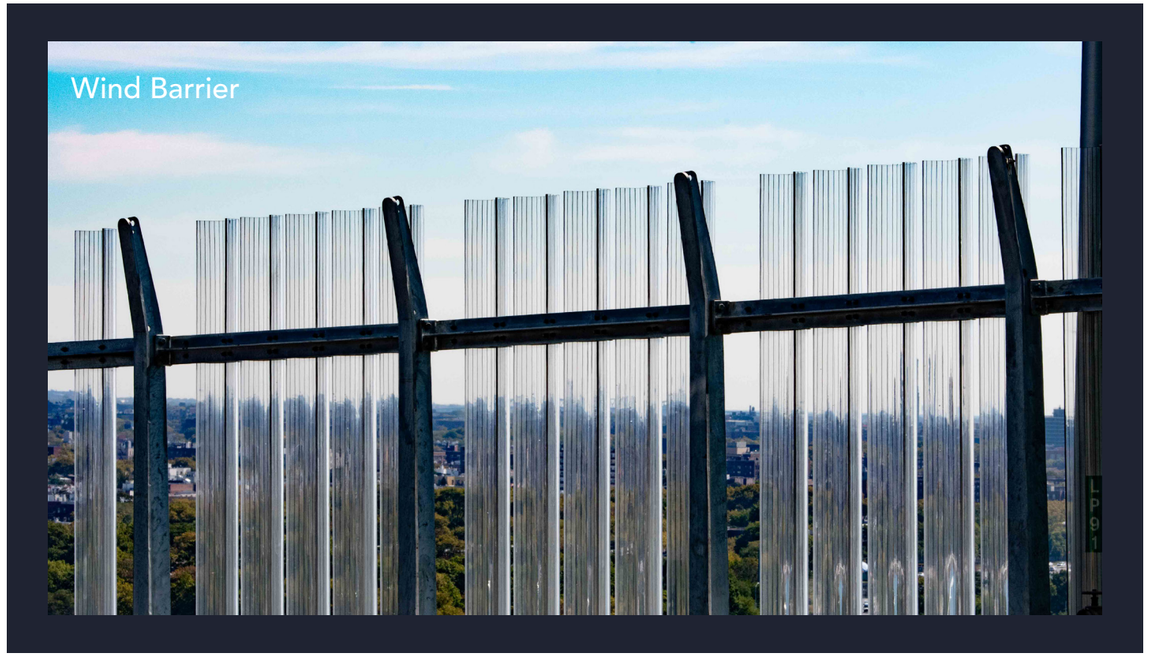
Transparent, crash-compatible systems designed to improve the aerodynamic performance and stability of bridge structures. Mounted on top of existing median barriers, these extensions help reduce wind-related bridge instability, such as vortex shedding and flutter, while enhancing roadway safety and preserving visibility.


Median Barrier Extension


Median Barrier Extension

Wind Barriers

Wind Barriers are engineered systems that reduce wind exposure and turbulence on bridges and elevated roadways to improve driver safety and infrastructure performance. Using custom-fabricated transparent panels, these systems help minimize wind-induced vehicle instability, reduce collision risks, and maintain bridge operations during extreme wind events.



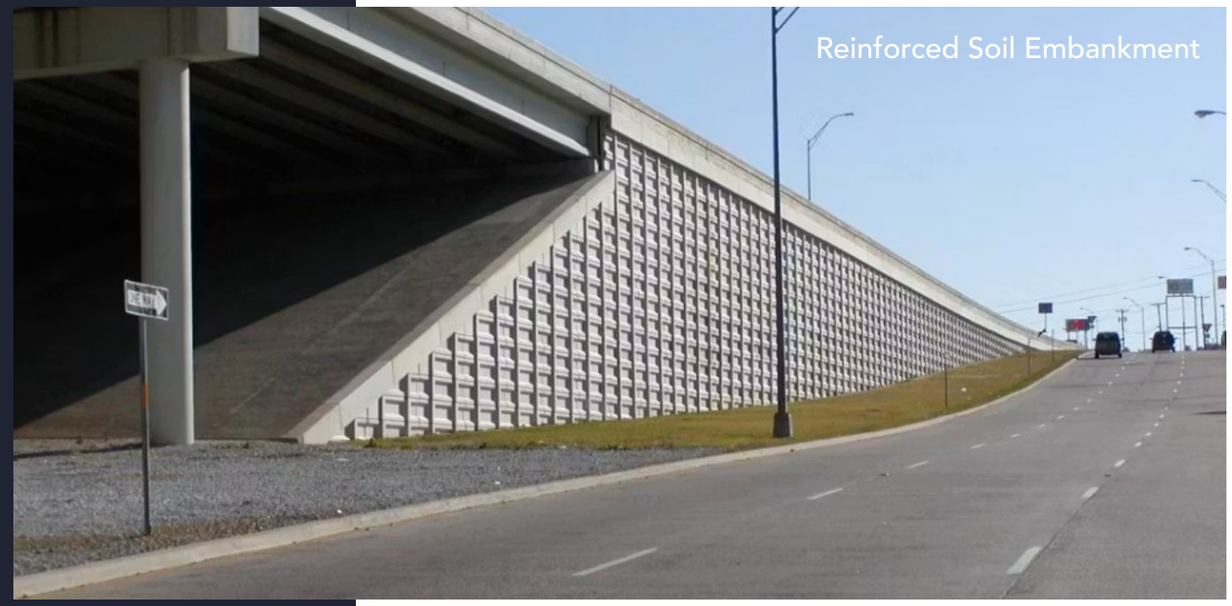
RETAINING AND STRUCTURAL SOLUTIONS

Transportation projects often face limited space, complex grading, and evolving structural demands. EKHO's retaining wall systems are engineered to maximize performance while minimizing footprint requirements across transportation environments.



Absorptive Precast Noise Barrier





Featured Solutions
Engineered retaining wall systems that deliver strength, flexibility, and clean design, built for tight spaces and tough site conditions.

- Narrow Footprint Retaining Walls
- EarthTec MSE Systems
- Gravity Block Retaining Walls
- Lagging Walls
- Anchored Walls
- Hybrid MSE Systems
- Reinforced Soil Embankments
- Welded Wire Walls

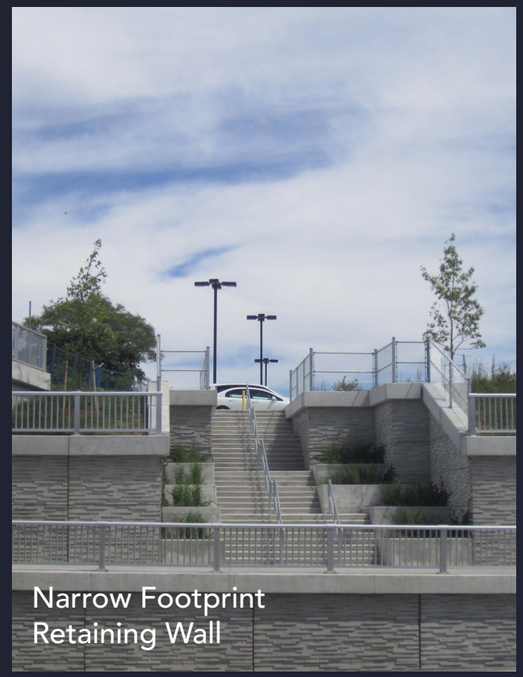

Reinforced Soil Embankment

Mechanically Stabilized Earth

EarthTec MSE, Gravity Block Walls, Hybrid Retaining Wall Systems, Reinforced Soil Embankment, Welded Wire Walls

Engineered retaining systems that reinforce compacted soil with steel or geosynthetic materials to create strong, durable, and cost-effective structures for earth retention. EKHO's MSE solutions provide flexible designs that accommodate a wide range of site conditions, wall heights, and aesthetic requirements while delivering long-term performance.


Lagging Wall


Narrow Footprint Retaining Wall

Cantilevered Walls

Lagging Walls provide a permanent post-and-panel retaining system that combines structural steel posts with precast concrete panels to deliver reliable earth retention, reduced excavation, and long-term durability.

Narrow Footprint Retaining Walls are engineered for space-constrained environments, offering a compact retaining solution that maximizes usable land while maintaining structural performance. Their versatile design allows seamless integration with noise barriers, handrails, and privacy screens, making them ideal for complex urban and transportation projects.

Transparent Noise Barrier

APPLICATIONS



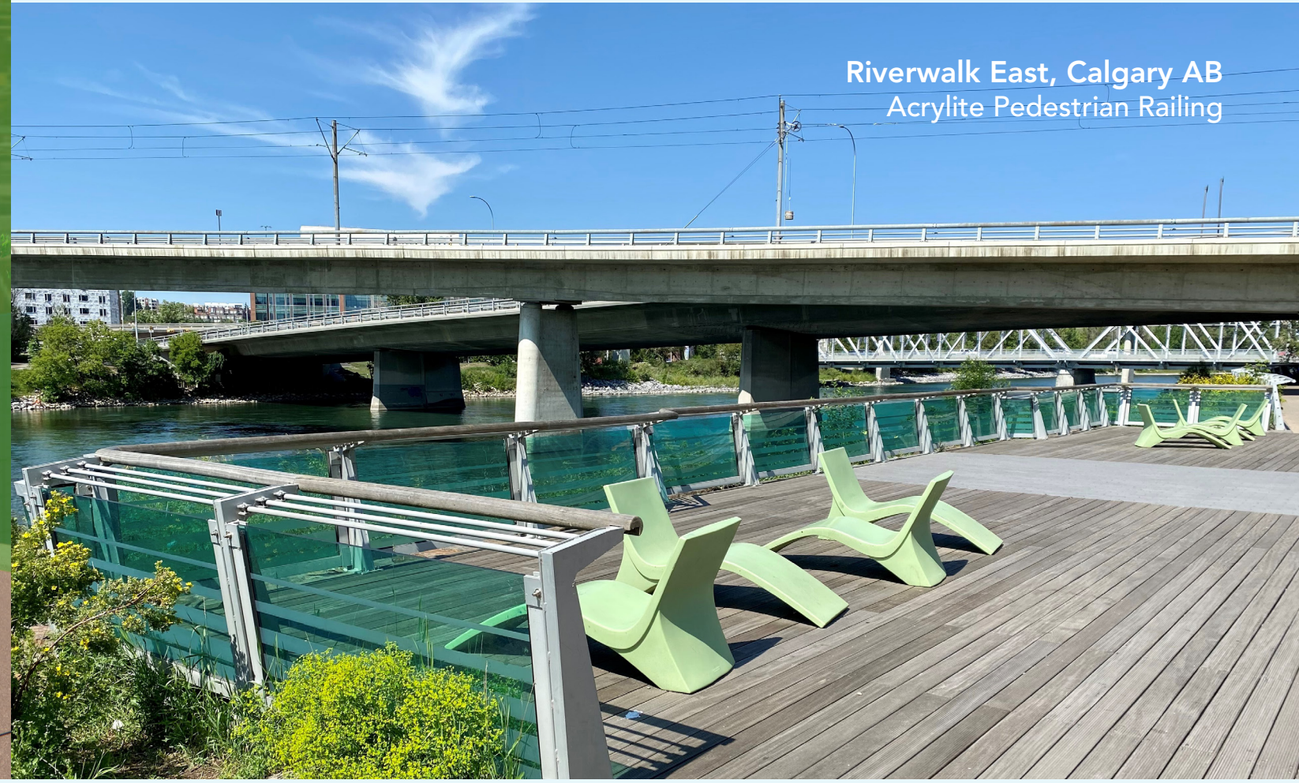
ELEVATED STRUCTURES & PEDESTRIAN RAILINGS

Interchanges and bridge infrastructure demand lightweight, high performance systems that maintain visibility while enhancing safety

EKHO's structure mounted wall systems reduce dead load requirements while improving sightlines and integrating seamlessly into complex bridge environments.



I-74 Mississippi River Bridge, Iowa & Illinois
Acrylite Pedestrian Railing



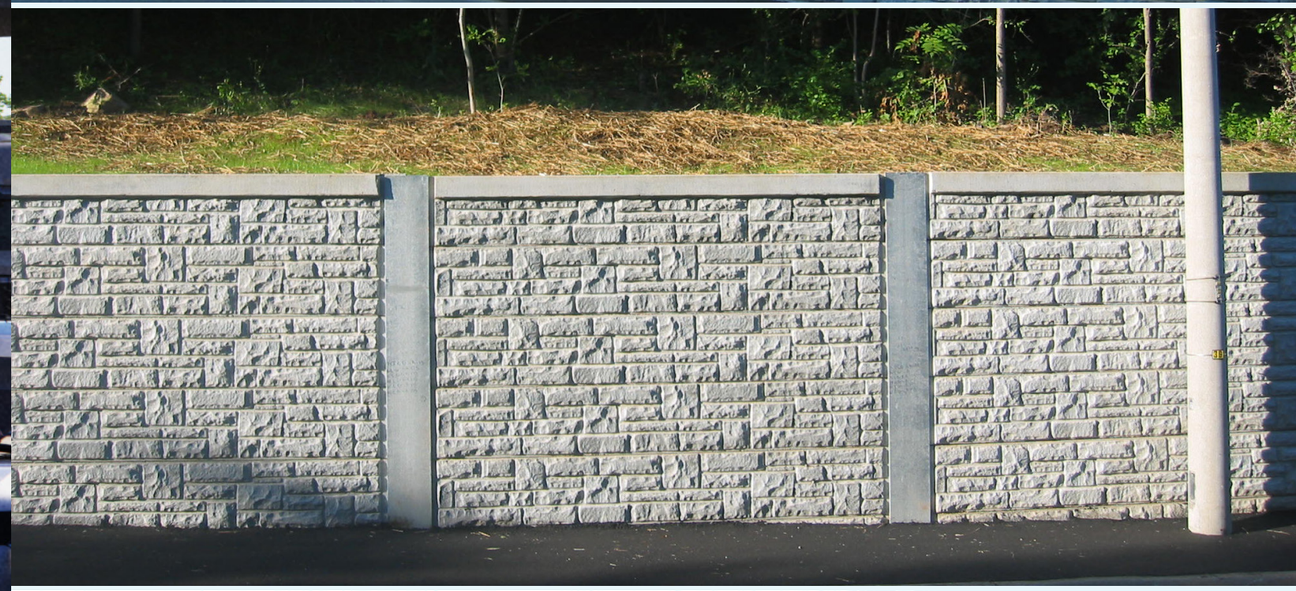
Riverwalk East, Calgary AB
Acrylite Pedestrian Railing

ROADWAYS

Urban and municipal roadways require infrastructure that balances safety, noise mitigation, and community integration.

From calming curbs to engineered retaining and noise wall systems, EKHO delivers solutions that improve roadway functionality while supporting safer communities.







HIGHWAYS

High-speed transportation corridors demand resilient systems engineered for safety, durability, and minimal maintenance.

EKHO supports highway infrastructure with crash-tested safety systems and advanced noise barrier technologies designed for modern transportation demands.







One Partner: Complete Transportation Infrastructure Solutions.

From retaining walls and crash-tested safety systems to noise barriers and sustainable infrastructure, EKHO helps transportation agencies deliver safer, quieter, and longer-lasting road networks across North America.

EKHO

INFRASTRUCTURE
SOLUTIONS

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