

**EKHO**

INFRASTRUCTURE  
SOLUTIONS

**RE  
BLOC**<sup>®</sup>  
Concrete Barriers



# MASH TL-5 CRASH TESTED NOISE BARRIER

North America's first MASH TL-5 integrated noise barrier  
and vehicle restraint system

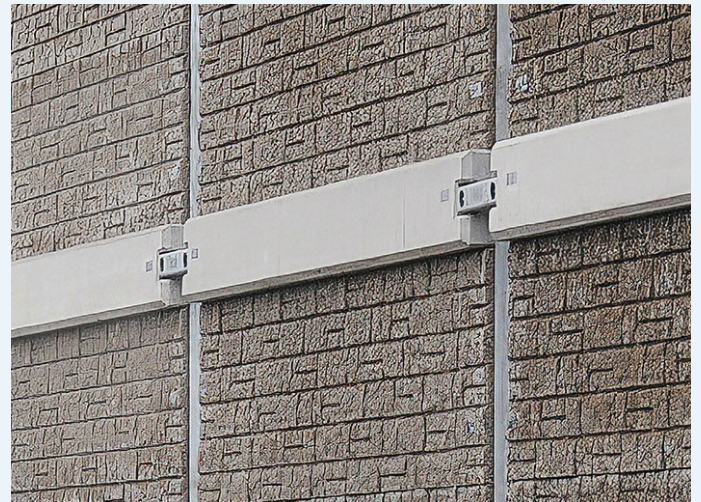
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# THE EKHO MASH TL-5 CRASH TESTED SYSTEM

## Maximum Noise Protection Combined With Reliable Road Safety

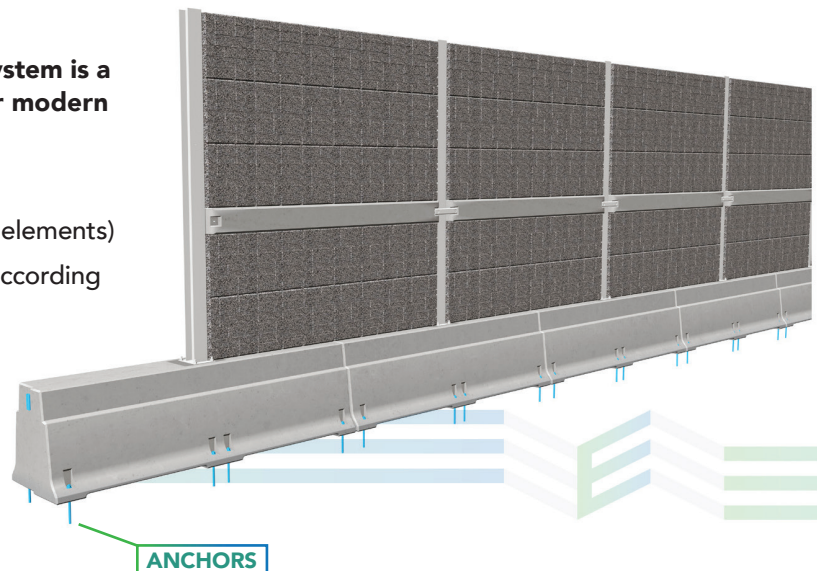
Leading the way in noise protection and safety, EKHO is proud to bring a **MASH TL-5 Crash-Tested Noise Barrier System** to the Canadian and U.S. transportation marketplace. Combining our industry leading dual-sided sound absorptive panel technology with a precast concrete safety barrier, we address noise abatement while meeting the highest level of safety standards.



## Design Details at a Glance

Durisol's MASH TL-5 Crash-Tested Noise Barrier System is a one-of-a-kind barrier system pushing the limits for modern day transportation.

- Shallow anchoring depth – only 6.69 in (17 cm)
- Minimum installation length: 135 ft (41.2 m; 9 base elements)
- Maximum construction height: 314.96 in (800 cm) according to local wind loads
- Weight: Approx. 4255 lbs (1930 kg)
- Built in concrete beam at the height of a truck's impact zone
- NRC: 0.70-0.85



# MASH TL-5



## AASHTO MASH TL-5 CRITERIA

Criteria	AASHTO MASH
Vehicle	36,287 kg (80,000 lbs). Tractor Trailer
Speed	80 km/h (50 mph)
Impact Angle	15°
Test No.	5-12

### The Future of Safety

Meeting the **AASHTO MASH TL-5 MASH Test Level requirements** ensures compliance with the most stringent safety standards. Through crash testing, the system demonstrated the ability to withstand impacts from heavy vehicles, including a **full tractor trailer**. Translating to real world performance, our roadside safety barrier helps to redirect vehicles, keeping them on the road, and keeping drivers safe.

## TESTED TO MASH TL-5 IMPACT LOADS, ANGLES, AND SPEEDS.



MASH TL-5  
CRASH TESTED



NOISE  
ABSORPTION



FOUNDATIONLESS  
(SHALLOW ANCHOR)



MODULAR  
DESIGN

### FEATURES

#### FOUNDATIONLESS

- Free-standing, modular barrier engineered to simplify construction.
- Reduces associated design risks and speeds up the noise wall installation portion of a project.
- Shallow anchoring depth requires only 6.69 in (17 cm) for anchoring and can easily be removed if ever required.
- Minimizes underground utility disruption

#### CRASH-TESTED RELIABILITY

- Proven to withstand rigorous MASH TL-5 testing, ensuring safety performance transportation owners can rely on.
- Additional concrete beam is incorporated to protect the wall system where truck contact occurs, providing additional protection for the noise barrier panels and ensuring durability during collisions.

#### MAXIMUM NOISE REDUCTION

- EKHO's double-sided absorptive panels effectively reduce noise and eliminate reverberation.
- Minimal distance to the noise source as an effective noise mitigation strategy.



**Effective noise protection is a crucial component of road infrastructure along highways.**

## Versatile, Space-Saving, and Foundation-Free

**Designed for highway and roadway noise walls, this system is ideal for:**

- Clear zone applications where space is limited
- Center medians, reducing noise on both sides of the roadway
- Projects where homes are located directly behind the wall system
- Temporary projects, thanks to its foundationless advantage



### Key facts of this revolutionary system:

- Minimal distance to the noise source for enhanced sound mitigation
- Less land consumption, as safety barrier and noise barrier are combined into one single system
- Wall system that transfers vehicle impact across the wall

# WHAT IS DURISOL®

**Durisol® is the first absorptive noise wall products in North America.**

A proprietary name for the durable, lightweight and cementitious/wood composition product utilized in noise wall panels to achieve ultimate noise absorption in engineered noise barrier systems.

The mix is made of chemically neutralized and mineralized organic softwood shavings which are processed to an acoustically engineered size and are bonded together under pressure with Portland Limestone Cement (PLC).

**Durisol noise wall panels are:**

- Self-draining and thoroughly tested for resistance to weather exposure including freeze-thaw, road de-icing chemicals, combustibility, and fungicides.
- Can be cast with noise absorptive surface on one side or both sides, sandwiching a concrete core.
- Cast in National Precast Concrete Association (NPCA), CSA certified precast concrete plant.

## STANDARD COLOURS

The MASH TL-5 Noise Barrier System is available in the same range of existing Durisol standard colours and finishes.



1004B NATURAL



1082D TAN



1538B GREY



02589 TAN



09187 GREY



11988 BROWN

This palette serves as a guide only; Durisol's real-life texture will offer a variance in colour. Colour appearance also varies depending on time-of-day, light reflectance, etc.



**Custom colours and finishes are available.**



# MASH TL-5 CRASH TESTED NOISE BARRIER

# EKHO

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**NPCA**



QF108176-1 Member

