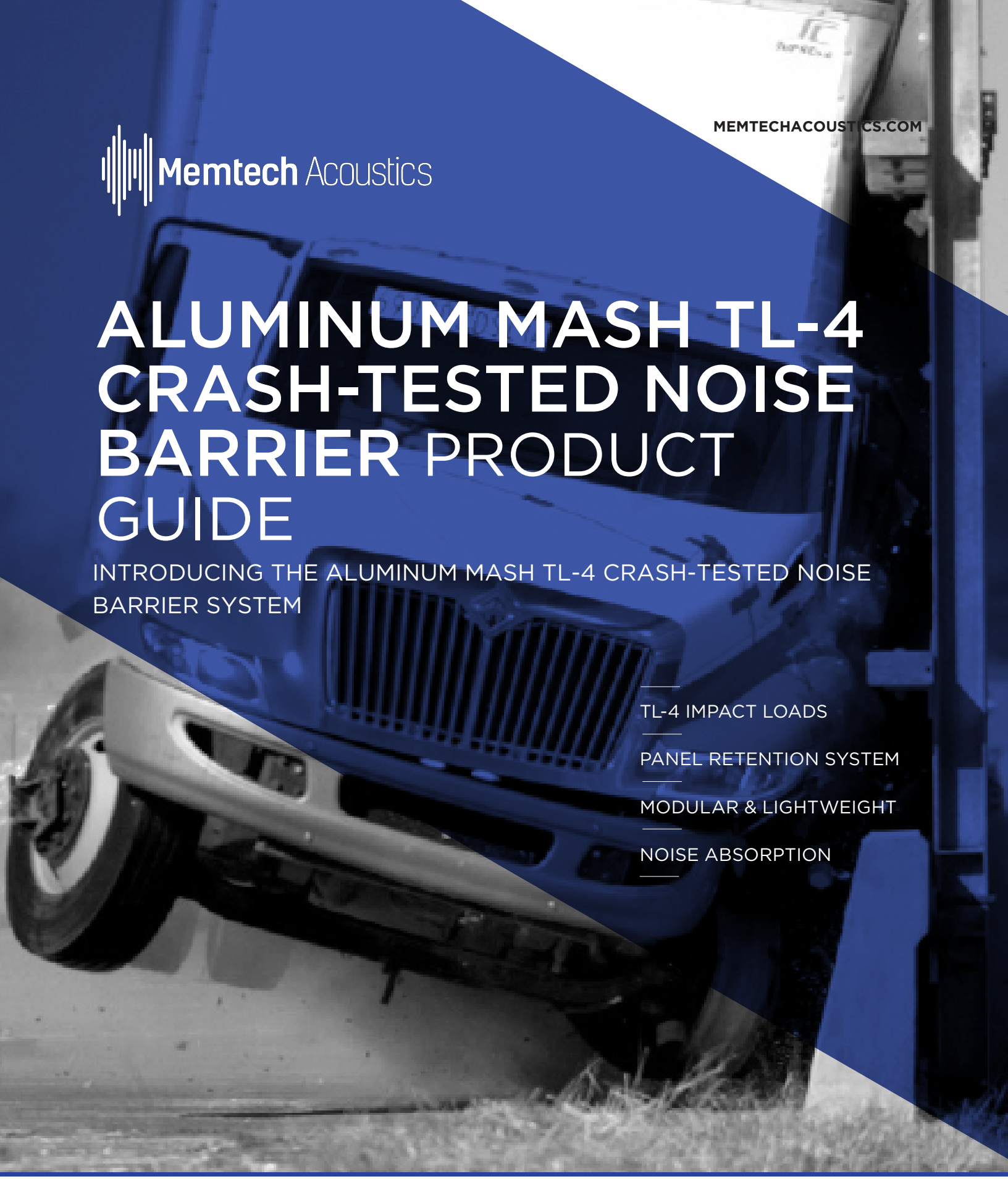


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Memtech Acoustics

ALUMINUM MASH TL-4 CRASH-TESTED NOISE BARRIER PRODUCT GUIDE

INTRODUCING THE ALUMINUM MASH TL-4 CRASH-TESTED NOISE BARRIER SYSTEM

- TL-4 IMPACT LOADS
- PANEL RETENTION SYSTEM
- MODULAR & LIGHTWEIGHT
- NOISE ABSORPTION

Memtech Acoustics supplies noise barrier and retaining wall systems that serve the needs of the transportation, building and energy sectors.

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Drawings and product details are for information and/or illustrative purposes only, and may vary.
Please contact your local Memtech representative for the most current product information.

Major roadways and highways are being built alongside urban areas. Space constraints on road and bridge designs have led to the need for a combined bridge safety and noise barrier in one.

This barrier system has completed MASH (Manual for Assessing Safety Hardware) crash testing to ensure it holds up in the real world.

As dictated by AASHTO (the American Association of State Highway and Transportation Officials), the impact speed and angle of the crash-test represent the worst practical conditions.

The Aluminum noise barrier system has been tested and has successfully met the TL-4 criteria of 80 kips.



AASHTO MASH TL-4 CRITERIA

Criteria	AASHTO MASH
Vehicle	10,206 kg (22,500 lb) Box Truck
Speed	93 km/h (58 mph)
Impact Angle	15°
Test No.	4-12

THE MASH TL-4 CRASH-TESTED ALUMINUM SYSTEM

The MASH TL-4 Aluminum System is a lightweight, structure-mounted noise barrier system. Built with perforations and a sound absorbing mineral wool interior, the panels are available in single or double-sided absorptive and noise reflective options.

UNIT WEIGHT

8 - 12 lbs / square foot (3.63 - 5.44 kg / square meter)

POST DESIGN

W-6 (W150) structure-mounted post

MAXIMUM POST WIDTH

10’ (3,048mm)

TESTED HEIGHT

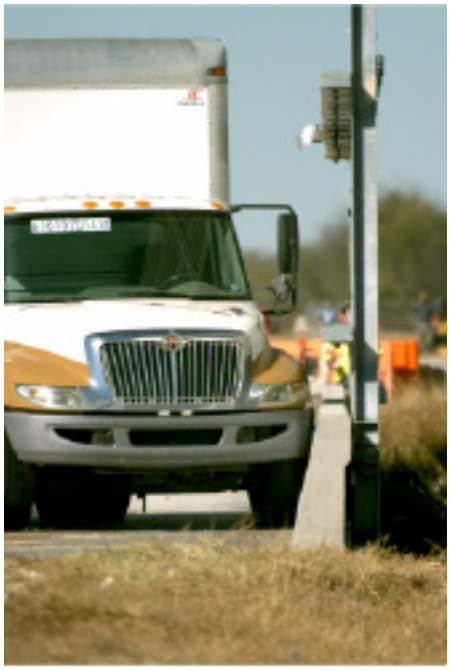
17’ (5.18m)

APPLICATIONS

While the Aluminum noise wall system is well-suited for a variety of applications, the MASH TL-4 crash-tested system was designed as a structure-mounted system for safer bridges.



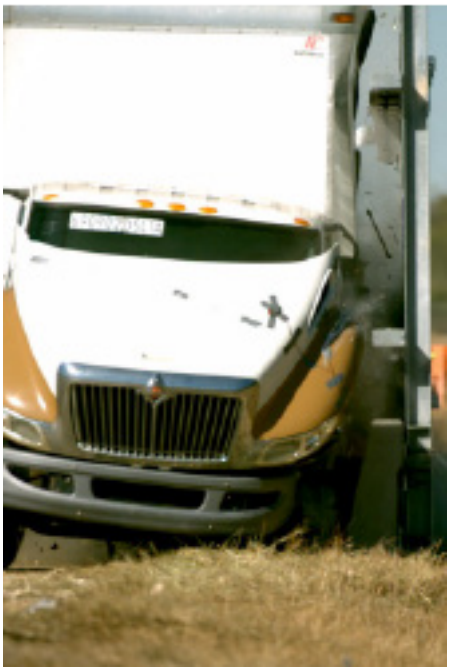
MANUAL FOR ACCESSING SAFETY HARDWARE (MASH) TEST LEVEL 4, TEXAS A&M TRANSPORTATION INSTITUTE PROVING GROUND, COLLEGE STATION, TX



A 22,500 LBS (10,206 KG) TRUCK IMPACTS THE MASH TL-4 SYSTEM AT 58MPH ON A 15°ANGLE



THE ALUMINUM MASH TL-4 SYSTEM STABILIZES THE VEHICLE AFTER IMPACT



DAMAGED AREAS SHOW HOW THE ALUMINUM MASH TL-4 SYSTEM REDUCES THE SEVERITY OF THE CRASH

MASH 4-12 SEQUENTIALS



Despite the severity of the impact, the **MASH TL-4 Aluminum Noise Barrier System** provided excellent vehicle stability. The wall panels remained intact, and minimal damage was recorded.

