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# SOUNDSTOP TL-4 SYSTEM PRODUCT GUIDE

LIGHTWEIGHT, CRASH TESTED NOISE BARRIER SYSTEM FOR  
BRIDGES AND ELEVATED ROADWAY APPLICATIONS

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SAFEST NOISE BARRIER  
AVAILABLE

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LIGHTWEIGHT

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ATTRACTIVE

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EXCELLENT  
SOUND ABSORPTION

The Soundstop TL-4 System is a lightweight noise barrier system for bridges and elevated roadway applications. The system has been successfully tested under NCHRP 350 Test Level 4 conditions, and proven to stabilize a vehicle and reduce the severity of auto crashes.

The system is a complete turnkey solution for transparent noise barriers, vandal shields or wind screens on bridges and overpasses. These “no maintenance panels” will retain clarity and physical strength despite decades of exposure to sunlight and other elements (ASTM D 1003 & D 4812 test methods). Components meet or exceed FHWA and DOT standards.

### Safest Noise Barrier Available

Meets NCHRP 350 Test Level 4 conditions

### Lightweight

As little as 200lbs per linear foot

### Attractive

Panels are available as clear or coloured panels

### Performance

Excellent sound insulating properties

### TYPICAL APPLICATIONS

- Bridges and structures



COLUMBUS, OH - SOUNDSTOP TL-4 SYSTEM

The **SOUNDSTOP** system is crash-tested and contains polyamide filaments for fragment retention.



NASHVILLE, TN - SOUNDSTOP TL-4 SYSTEM

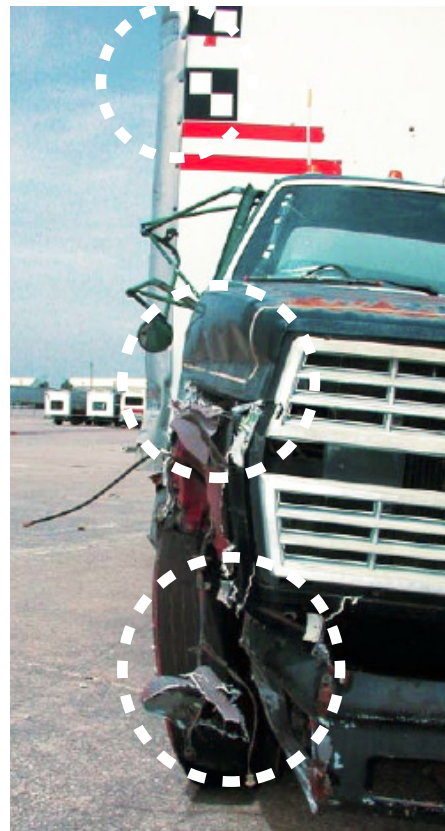
**NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP)**  
**350 Test Level 4 - Midwest Roadside Safety Facility, Lincoln, NE, USA**



**A 8,164kg truck impacts the TL-4 System at 60mph on a 25° angle**



**The soundstop TL-4 System stabilizes the vehicle after impact**



**Damaged areas show how the TL-4 System reduces the severity of the crash**

## TESTIMONIALS

**“... the crash performance of the concrete safety shapes is essentially improved by limiting vehicle climb to some extent and by significantly reducing the roll angle of larger vehicles.”**

- Excerpt from FHWA approval letter

**“That is the most stable TL-4 crash test I’ve ever seen.”**

- Senior FHWA Official in the Office of Safety Design





Soundstop GS CC has embedded polyamide filaments to contain broken fragments resulting from collision damage (complies with EN 1794-2)




SOUNDSTOP GS CC

## AVAILABLE COLORS

Soundstop GS CC sheet for the TL-4 System is available in the following standard colors.

The color impression remains the same in different thicknesses. Other colors can be manufactured upon request.

	CLEAR
	MIDNIGHT BLUE
	STEEL BLUE
	SKY BLUE
	FOREST GREEN
	SEA GREEN
	SPRING GREEN
	SMOKY BROWN



COLUMBUS, OH - SOUNDSTOP TL-4 SYSTEM

**AVAILABLE THICKNESSES**

15mm (19/32"), 20mm (25/32"), 25mm (1")

**AVAILABLE SIZES**

Sheet Size	Remarks
2,500 x 2,000mm (100 x 78¾")	Use with post spacing up to 8' Wall height up to 6' 7" above the parapet*
3,300 x 2,500mm (130 x 100¼")	Use with post spacing up to 8' Wall height up to 10' 10" above the parapet*
5,000 x 2,300mm (197 x 90½")	Use with post spacing up to 8' Wall height up to a maximum of 16' high*
3,000 x 2,000mm (118 x 78¾")	Use with post spacing up to 7' Wall height up to 9' 10" above the parapet
4,200 x 2,000mm (165½ x 78¾")	Use with post spacing up to 7' Wall height up to a maximum of 13' 10" high
5,000 x 2,000mm (197 x 78¾")	Use with post spacing up to 7' Wall height up to a maximum of 16' high

**NOTE:**

\* Maximum post spacing for the Soundstop TL-4 System is 8' (2,438mm)



TORONTO, ON - SOUNDSTOP TL-4 SYSTEM

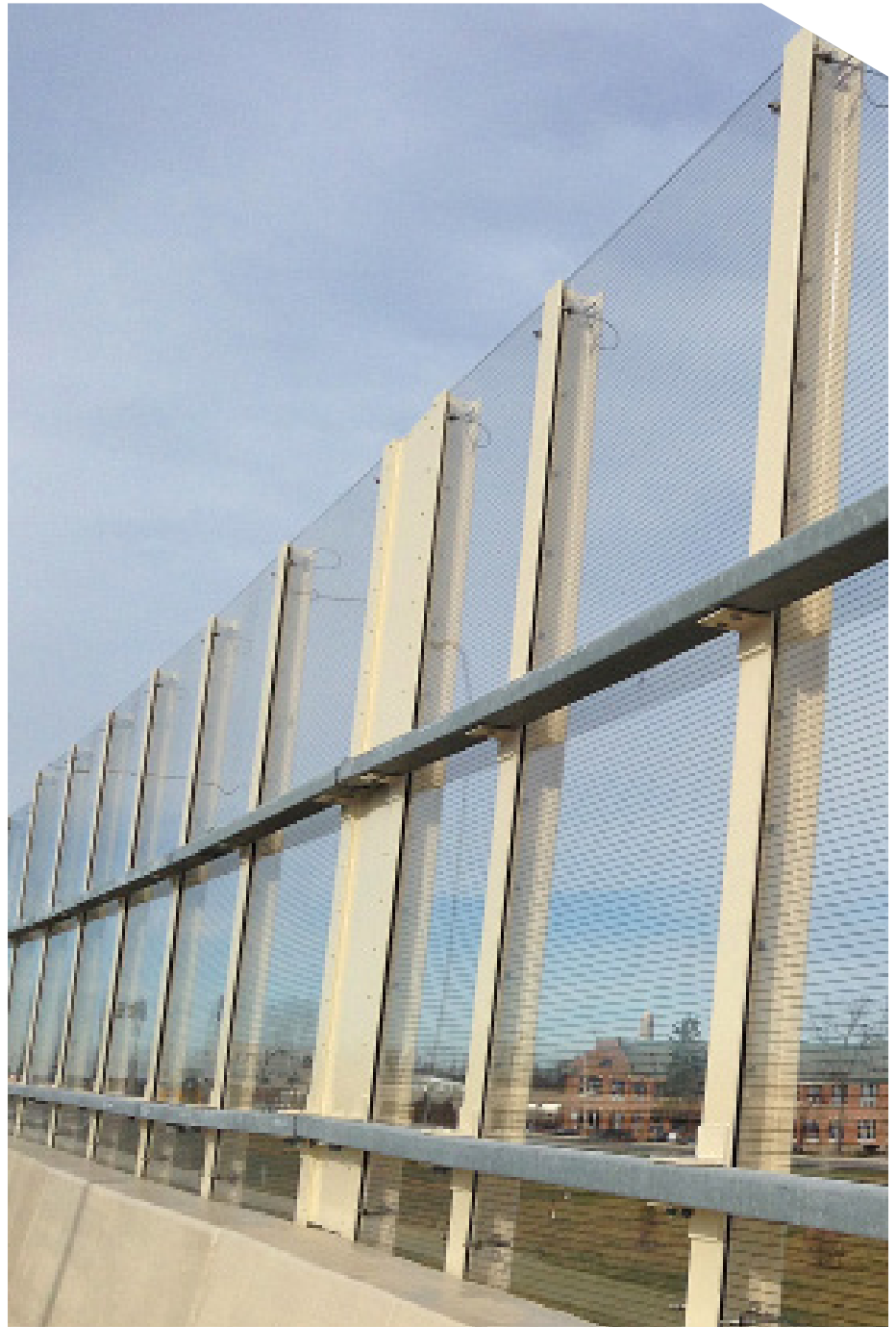
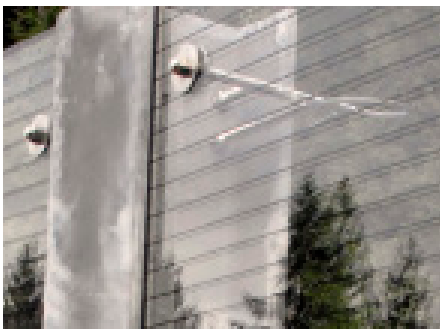


## ALAMEDA, CALIFORNIA

The joint Alameda County Transportation Commission and Caltrans project to upgrade existing bridges called for California's first TL-4 System installation. 20mm 'Smokey Brown' Soundstop GS CC panels were installed along two bridges on Interstate 580—one spanning the San Leandro Creek and the other spanning Estudillo Avenue, just South of Oakland.







## LIONS BAY, BRITISH COLUMBIA

Three different bridges and bridge approaches at Lions Bay are equipped with the Soundstop TL-4 System, alleviating local residents' traffic safety, noise level and property value concerns leading up to the project's execution in preparation for the 2010 Olympic Games. The transparent barriers satisfy safety and construction requirements while blocking traffic noise, allowing natural light through and preserving the spectacular views of Howe Sound.

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# RÖHM

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

**Durisol**  
NOISE BARRIER SYSTEMS

Durisol® is the market leader in the noise barrier wall industry. We manufacture and supply a series of unique panel and post wall systems - including our Durisol® precast sound absorption panels and transparent Soundstop sheets, as well as narrow footprint retaining walls and fire-rated barriers. Our first noise barriers were installed in Canada in 1977 and in the US in 1986 and are all still in service today. With over 40+ million square feet of wall installed to date, Durisol® noise barriers stop the noise of industrial warehouses, utility enclosure sites and urban infrastructure of all kinds right across North America.

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