TROY ACOUSTICS CORPORATION

Highway Noise Barrier

The Fastlane™ System

Portland Cement + Wood Fiber panels in steel H-beam posts.

Exceeds ALL local, state & federal DOT noise criteria.

NRC 0.90 · STC 53 · UL Class A Fire

Fastest installation. Lowest cost. Highest performance.

0.90	0.87	53	UL
NRC	**SAA**	**STC**	**Class A Fire**
Sound Absorption	Absorption Avg	Sound Isolation	Flame 0 · Smoke 0



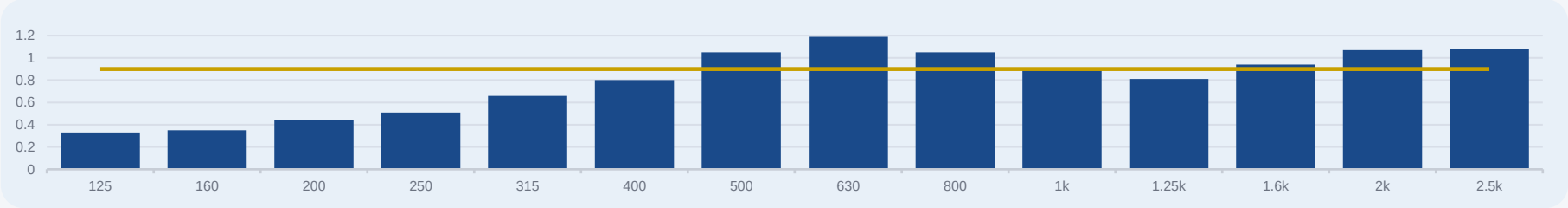
troyacoustics.com | 800-987-3306 | 2580 Sidney Lanier Drive, Brunswick, GA 31525

Acoustic Performance: Exceeds All DoT Standards

Riverbank Acoustical Laboratories · NVLAP Lab Code 100227-0 · 17 July 2026

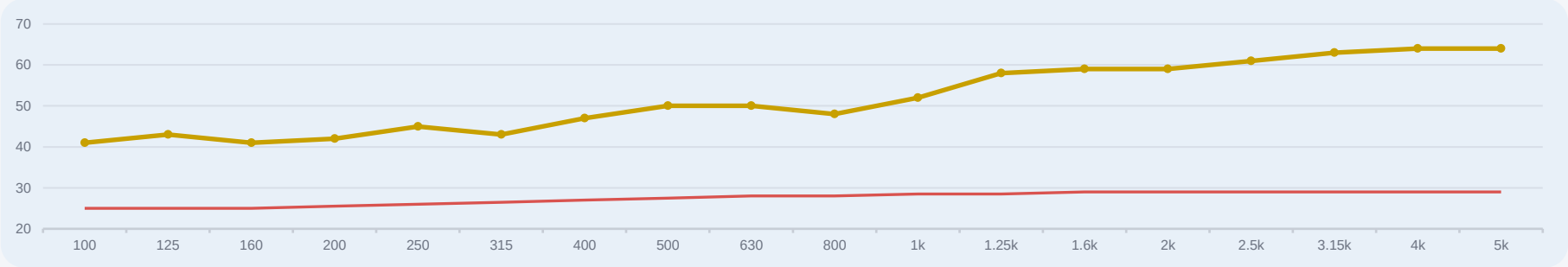
0.90	0.87	53	41–64
NRC Noise Reduction Coeff.	**SAA** Sound Absorption Average	**STC** Sound Transmission Class	**dB TL** Frequency Range

NRC 0.90 — SOUND ABSORPTION (ASTM C423 · RAL-A26-364)



ASTM C423-23 · E795-23 · Riverbank Acoustical Labs, Geneva IL · NVLAP 100227-0 · Report RAL-A26-364

STC 53 — SOUND TRANSMISSION LOSS (ASTM E90 · RAL-TL26-262)



ASTM E90-09 · E413-22 · Riverbank Acoustical Labs, Geneva IL · NVLAP 100227-0 · Report RAL-TL26-262

NRC 0.90 exceeds all state & federal noise standards · STC 53 surpasses FHWA NAC at every octave band · troyacoustics.com

Certifications, Fire Safety & Rapid Installation

Third-Party Certified · Zero Flame · Zero Smoke · Fastest Schedule · Lowest Cost

UNDERWRITERS LABORATORY CERTIFIED

UL723 / ASTM E84 · Certificate #20180302-R27255
Confirmed October 2025 · 20+ year continuous rating · Highest fire classification

FLAME SPREAD	SMOKE DEVELOPED
0	0

Class A — Highest Fire Rating

20+ years continuous UL rating

No competing barrier holds this certification

Zero Flame · Zero Smoke

UL723 · ASTM E84 · Certificate R27255

Flame Spread Index: 0. Smoke Developed: 0. UL Class A — the highest fire classification. Maintained for over 20 years continuously. No competing highway sound barrier holds this UL rating. Mandatory for all FHWA-funded projects.

Anti-Fungal Certified

ASTM G21 · Accugen Lab Report #175034

Rating: 0 (zero growth) at 7, 14, 21 and 28 days. Tested against Aspergillus niger, Penicillium pinophilum, Chaetomium globosum, Trichoderma virens, and Aureobasidium pullulans. Critical for Gulf Coast, Southeast, and Pacific Northwest climates.

Anti-Microbial Certified

ASTM E2180 · Accugen Lab Report #175035

99.9999% (7-log) reduction vs. S. aureus. ≥99.9999% vs. K. pneumoniae at 24-hour contact. Eliminates bacterial growth on panel surfaces. No other highway sound wall system has undergone or achieved this level of antimicrobial certification.

FASTEST INSTALLATION · SHORTEST SCHEDULE · LOWEST COST PER LINEAR FOOT



Crane-set installation — hours per section, not days

- **Modular precast panels:** arrive pre-manufactured, pre-dimensioned, ready to lift from truck to post
- **Crane-set in hours:** each panel lifts directly into waiting H-beam posts — no forming, no pouring
- **No cure time:** precast is at full strength on delivery — zero waiting for concrete to set
- **Small crew, large output:** 3–4 person crew sets hundreds of linear feet per shift
- **Reduces lane closures:** shorter construction window = lower MPT costs, fewer community complaints
- **Lower cost per linear foot:** less labor, smaller crane, lighter panels, faster schedule = significant savings
- **30-year service life:** no painting, sealing, patching, or biological treatment ever required

Complete Advantage: Troy vs. Every Competing System

NRC 0.90 · STC 53 · UL Class A Fire · U.S. Patent 5,661,723 · Exceeds All DoT Standards

Criterion	Troy Fastlane™	Solid Precast Concrete	Fiberglass Panel	Timber / Wood
NRC Absorption	**0.90 — EXCEEDS ALL**	~0.02 — Reflects noise	~0.35 — Marginal	~0.10 — Poor
STC Isolation	**53 — EXCEEDS ALL**	45–55 — Meets minimum	25–35 — Below DOT	20–30 — Below DOT
UL Class A Fire	**Flame 0/Smoke 0 · 20+ yrs continuous**	Inherent (no rating)	Varies — uncertified	Class C only
FHWA Compliance	**EXCEEDS every band**	Meets minimum	Marginal at low freq.	Often non-compliant
Anti-Fungal ASTM G21	**✓ Rating 0 — certified**	Inherent	Not tested	Not tested
Anti-Microbial E2180	**✓ 99.9999% reduction**	Not tested	Not tested	Not tested
Parallel Wall Reverb.	**✓ Eliminated (NRC 0.90)**	High — bounces noise	Partial	Partial
Installation Speed	**✓ Fastest — hours/section**	Moderate	Fast	Fast
30-Year Maintenance	**✓ None required**	Low	Moderate	High — rot/paint
U.S. Patent	**✓ 5,661,723**	None	None	None

MATERIAL COMPOSITION & PHYSICAL SPECIFICATIONS

Troy Board™: 60% Portland Cement · 39.5% Wood Fiber · 0.5% Sodium Silicate · U.S. Patent 5,661,723

Dimensions: Troy Board 4"×47¾"×11'-3" · Panel System 7¾"×60"W×11'-9"L · Heights to 22'+

Weight: 1,300 lbs/panel (8') · 41.2 lbs/sq ft · Low VOC · Sustainably sourced wood fiber

ASTM Standards: C423 · E795 · E90 · E413 · E84/UL723 · G21 · E2180 · AASHTO LRFD · FHWA compliant all 50 states



TROY ACOUSTICS
SERIOUS. ACOUSTIC. SOLUTIONS.