# Troy Bark!

SERIOUS. ACOUSTIC. SOLUTIONS

## ANIMAL SHELTER · KENNEL · MILITARY WORKING DOG FACILITIES

The Fear Free–compliant acoustic system with zero flame spread, zero microbial growth, and maximum sound absorption — engineered exclusively for canine environments.

| 1.00 | .89 | 0 | 0 | 0 |
|---|---|---|---|---|
| NRC Ceiling | NRC Walls | Flame Spread | Smoke Dev. | Mold/Microbial |

UL Certified Fire Rating · Riverbank Laboratory Acoustic Testing · Accugen Lab Microbial Certification · www.troyacoustics.com · (800) 987-3306

THE SCIENCE

## Shelter noise is one of the most damaging and most overlooked threats to animal welfare.

Research published in the American Journal of Veterinary Research documented sound levels of 100–108 dB in standard dog kennels — as loud as a chainsaw. Dogs hear up to four times more acutely than humans. This chronic acoustic exposure triggers FAS responses that compromise welfare, reduce adoptability, and endanger staff hearing.

**108 dB**
Peak Sound Level in Dog Kennels

**4×**
More Sensitive Canine Hearing

**FAS**
Fear · Anxiety · Stress

**↓ Adopt**
Reduced Adoptability

FEAR FREE SHELTER PROGRAM

## What the Standard Requires

- Ceiling materials must achieve NRC ≥ .90 and must be cleanable and anti-microbial
- Sound-absorbing treatment on upper walls to reduce reverberation and echo build-up
- Sound containment walls to prevent noise from reaching cat areas, offices, and quiet zones
- Materials must withstand high-pressure washing and chemical disinfectants without degrading
- Zero tolerance for materials that support mold, mildew, or biological growth
- Environments that reduce fear-inducing stimuli and support predictable, lower-stress routines

*"Your best place for noise reduction is the ceiling. The material should also be cleanable and antimicrobial." — Fear Free Shelters, Noise Control Basics*

THE TROY BARK! SYSTEM

# Engineered specifically for canine facilities — and nothing else comes close.

Troy Bark! is built on Troy Board (TB) — a wood fiber Portland cement composite — paired with Troy Wool (TW), a 2.5 lb. density Basalt rock mineral wool. Both are natural and organic in composition, making this the safest acoustic system for living animal environments. No other product achieves this combination of acoustic, fire-safety, and biological performance simultaneously.

## Acoustic Performance

*Certified by Riverbank Laboratory*

- NRC 1.00 — Ceiling (1" TB + 6" TW)
- NRC .95+ — Ceiling Application
- NRC .89 — Wall Application (2" TB + 2" TW)
- ASTM C423-19, E795-16, 423-09a, E795-05
- Report # RAL-A118-195 and A11-206
- CAC Rating per USG Testing ASTM E1414-16

## Fire Safety Zero Flame/Smoke

*Certified by Underwriters Laboratory*

- Zero (0) Flame Spread Index — UL 723
- Zero (0) Smoke Developed Index — UL 723
- Test Standard: ASTM E84 / UL 723
- UL Report # R27255-20120503
- Material property — not a coating or treatment
- Troy Board does not combust

## Biological Protection

*Certified by Accugen Laboratory*

- Anti-Microbial — ASTM E 2180 · Report #175035
- Anti-Fungal — ASTM G21 · Report #175034
- Low VOC — no off-gassing in animal spaces
- Waterproof — withstands daily hosing + bleach
- Resists chemical disinfectant cycles
- Natural/organic — Portland cement + wood fiber

# Troy Bark!



## ACOUSTIC PERFORMANCE

*Certified by Riverbank Laboratory*

NRC — Ceiling App. (1" TB + 6" TW) **1.00**

NRC — Ceiling Application (.95+) **.95+**

NRC — Wall Application (2" TB + 2" TW) **.89**

### KEY CERTIFIED VALUES

| | | |
|---|---|---|
| Flame Spread Index | **0 (Zero)** | *UL 723 / ASTM E84* |
| Smoke Developed Index | **0 (Zero)** | *UL 723 / ASTM E84* |
| Anti-Microbial | **Certified** | *ASTM E2180 · #175035* |
| Anti-Fungal | **Certified** | *ASTM G21 · #175034* |
| CAC Rating | **CAC 38** | *ASTM E1414-16 (USG)* |
| VOC Content | **Low VOC** | *Safe for animal spaces* |

### MATERIAL DIMENSIONS

| | |
|---|---|
| Troy Board 2" (Wall) | **2" × 23⅝" × 94½"** |
| Troy Board 1" (Ceiling Tile) | **1" × 23⅝" × 23⅝"** |
| Troy Wool (Mineral Wool) | **2" × 24' × 48"** |
| Wall Assembly Load | **5 lbs./sq. ft.** |
| Ceiling Assembly Load | **3.5 lbs./sq. ft.** |

## INSTALLATION — STANDARD TRADES

**W** **Wall System**

J + Z Channel framing on concrete · 2" Troy Wool in bays · 2" Troy Board horizontal, running bond, fastened to Z Channel

**C** **Ceiling System (CAC 38)**

Commercial 2×2 tile grid (by others) supported every 4' · 1" Troy Tile dropped in grid · 6" Troy Wool placed on top

PERFORMANCE COMPARISON

# Troy Bark! vs. Standard Acoustic Solutions for Animal Shelters

Most products address one challenge. Troy Bark! addresses them all — in a single certified system.

| Performance Criterion | Troy Bark! System | Acoustic Foam | Fabric Panels | Block/Drywall |
|---|---|---|---|---|
| NRC Ceiling — Fear Free Target ≥ .90 | **1.00 ✓** | 0.70–0.85 | 0.75–0.90 | 0.02–0.05 |
| NRC Wall Application | **.89 ✓** | 0.55–0.75 | 0.70–0.85 | 0.02–0.05 |
| UL Zero Flame Spread (ASTM E84) | **Certified ✓** | ✗ Flammable | ✗ Flammable | — |
| UL Zero Smoke Developed | **Certified ✓** | ✗ | ✗ | — |
| Anti-Microbial (Lab Certified) | **✓ Accugen #175035** | ✗ | ✗ | — |
| Anti-Fungal / Mold Resistant | **✓ Accugen #175034** | ✗ Absorbs moist. | ✗ Harbors growth | — |
| Waterproof / Pressure Washable | ✓ | ✗ | ✗ | ✓ |
| Low VOC — Safe for Animals | ✓ | ✗ Off-gases | Varies | Varies |

## WHY TROY BARK! IS THE RIGHT CHOICE

### Purpose-Built for Dogs

Every specification — material composition, dimensions, installation detail, biological testing — was developed for the unique demands of loud, wet, chemically cleaned animal environments. It is not a repurposed commercial product.

### Fear Free Compliant — By Design

Fear Free calls for NRC ≥ .90 ceilings that are cleanable and anti-microbial. Troy Bark! achieves NRC 1.00 on ceilings and NRC .89 on walls, with certified anti-microbial ratings from an independent laboratory.

### Every Claim Is Third-Party Certified

Acoustic: Riverbank Laboratory. Fire: Underwriters Laboratory. Anti-microbial and anti-fungal: Accugen Laboratory. CAC: USG Testing. No claim in this presentation is unsubstantiated.

### Natural, Organic, and Safe

Portland cement and wood fiber create a biologically inert surface. Troy Wool is produced from Basalt rocks. No synthetic chemicals, no off-gassing, no toxic components — safe for the animals who live with

## THREE OUTCOMES TROY BARK! DELIVERS

### Improved Adoptability

Quieter facilities allow prospective adopters to connect with animals. Dogs not under chronic acoustic stress present as calmer, friendlier, and more appealing adoption candidates — improving outcomes for animals and organizations alike.

### Protected Staff & Volunteers

Sustained exposure to noise above 85 dB causes hearing damage and psychological stress in humans. Troy Bark! protects everyone in the facility. A quieter environment improves staff retention, reduces burnout, and supports a higher standard of animal care.

### Long-Term Durability

Troy Board withstands repeated high-pressure washing, bleach disinfection, and the physical demands of a working kennel without loss of acoustic or protective performance. This is a permanent solution — not a temporary fix that degrades and requires replacement.

# Give Every Dog a Quieter Chance at Home.

Contact Troy Acoustics today for a project consultation, specification package, or product samples for your facility.

## CONTACT TROY ACOUSTICS


| | |
|---|---|
| Toll Free | **(800) 987-3306** |
| Direct | **(818) 376-8490** |
| Website | **www.troyacoustics.com** |
| Address | **2580 Sidney Lanier Drive** |


## CERTIFICATION SUMMARY

| | | |
|---|---|---|
| NRC Ceiling | 1.00 | *Riverbank Lab* |
| NRC Wall | .89 | *Riverbank Lab* |
| Flame Spread | Zero | *UL #R27255* |
| Smoke Developed | Zero | *UL #R27255* |
| Anti-Microbial | Cert. | *Accugen #175035* |
| Anti-Fungal | Cert. | *Accugen #175034* |
| CAC Rating | CAC 38 | *USG/ASTM E1414* |

Troy Bark! is a product of Troy Acoustics Corporation. Troy System® is a registered trademark. All performance values based on independent third-party laboratory testing.