



RiverbankAcoustical
LABORATORIES®



A WORLD LEADER IN ACOUSTICAL TESTING

Riverbank Acoustical Laboratories (RAL) was built by Colonel George Fabyan for Wallace Clement Sabine in 1918. The test chamber dimensions, construction materials, and isolation specifications were carefully engineered by Mr. Sabine.

After Wallace Clement Sabine passed away in 1919, the task of managing laboratory operations was granted to Dr. Paul Sabine, who refined the test methods and developed RAL into a successful business. After Paul retired, the lab operations were handed to Hale Sabine and the Armour Research Foundation of the Illinois Institute of Technology. The Armour Research Foundation (ARF) was renamed IITRI in 1963. IITRI funded a large enhancement to the RAL operation in the 1960s, which included a new Transmission Loss facility.

Today, RAL maintains a NVLAP accredited testing operation in the Riverbank facility for prominent acoustical material manufacturers and government agencies.



TESTS PERFORMED

- Sound Absorption
- Sound Transmission Loss
- Impact Sound Transmission
- Field Sound Transmission
- Sound Power
- Sound Pressure Level (SPL)
- Reference Sound Source Calibration Test



PRODUCTS TESTED

- Acoustical Doors
- Windows & Glazing Units
- Open Office Screens
- Flooring Underlayment
- Resilient Ceiling Systems
- Auditorium Seats
- Roof Decks
- Foam Products
- Wall Panels
- Sprayed-On Products
- Ceiling Tiles
- Suspended Baffles
- Bass Traps
- Acoustical Blocks
- Draperies & Acoustic Curtains
- Cavity Absorbers
- MLV Barriers
- Damping Compounds
- Perforated Panels
- Fiberglass & Mineral Fiber Insulation
- Acoustical Light Fixtures
- Concrete Highway Barriers
- Resonators
- Ship Bulkheads
- Reference Sound Sources
- Alarm Systems
- Consumer Appliances
- Hospital Equipment

THE TOP 5 REASONS TO TEST WITH RIVERBANK

1 ACCREDITATION

Riverbank Acoustical Laboratories (RAL) maintains current accreditation through NVLAP (National Voluntary Laboratory Accreditation Program) and is regularly audited by NIST representatives to assure conformity to ISO 17025 and to each of our ASTM and ISO test standards. NVLAP is the most rigorous and well-respected accreditation available.

2 QUALITY

Riverbank maintains an extensive Quality Management System (QMS) in strict conformance to the requirements of ISO 17025. The QMS includes our Quality Manual, Business Policies, General Operating Procedures (management procedures), Standard Operating Procedures (test methods), root cause analysis reports for non-conformities, and other critical records. RAL also maintains scheduled testing of standard reference specimens and keeps current control charts for each of our accredited test standards. These control charts give us confidence in the statistical certainty of our test results across the frequency range and over time.

3 EXPERIENCE

Our laboratory staff has over 30 years of combined acoustical testing experience. Senior Experimentalist Mark Sciaky has tested with RAL for more than two decades. Eric Wolfram, the Laboratory Manager, has managed RAL for 10 years and has nearly two decades of professional experience in the acoustical testing and noise control engineering industries. Members of our tenured team likewise leverage their vast experience in RAL's sophisticated testing environments.

4 CUSTOMER SERVICE

Riverbank prides itself on fast, effective, customer-oriented service. Our efficient test process and experienced staff reduce turnaround time and wait periods compared to other laboratories. Test results are emailed to the client on the day of the test. Formal written test reports are delivered within one week of the test date in most cases. Next-day testing is also available for most procedures, with an additional fee.

5 REPUTATION

Riverbank Acoustical Laboratories is internationally recognized as the first acoustical testing facility in the world, designed and founded in 1918 by the father of acoustical science, Wallace Clement Sabine. Today, architects, acousticians, and engineers ask to see the "Riverbank" test reports for proof of an acoustical product's performance.

Riverbank staff can design and perform non-standard test procedures for unique specimens or unusual acoustical investigations. Facilities are available for rental by private individuals, manufacturers or acoustical consultants for research and development testing. The test chamber, instrumentation and staff are available on an hourly or daily basis.



ACCREDITATIONS & CERTIFICATIONS

NVLAP Accredited Acoustical Testing Services Include:

- Sound Absorption (NRC, Sabin, Coefficient) ASTM C423 & E795, ISO 354
- Sound Transmission Loss (STC) ASTM E90 & E413, ASTM E1408, ISO 10140
- Outdoor-Indoor Transmission Class (OITC) ASTM E1332
- Impact Sound Transmission (IIC) ASTM E492 and E989
- Field Sound Transmission Testing for Airborne ASTM E336 ("Field STC") & Impact Noise ASTM E1007 ("Field IIC")
- Sound Power Level Measurement ANSI S12.51 / ISO 3741
- Reference Sound Sources Calibration ANSI S12.5 / ISO 6926
- Impedance Tube Testing per ASTM E1050 (Sound Absorption) & ASTM E2611 (Sound Transmission Loss)



RAL is accredited by the National Institute of Standards and Technology (NIST) through the National Voluntary Laboratory Accreditation Program (NVLAP) for selected acoustical testing services conducted in accordance with established standards.



NVLAP LAB CODE I00227-0