

TEST SPECIFICATIONS

Riverbank conducts the following standard tests and provides clients with the designated information:

DIFFUSE FIELD SOUND ABSORPTION: ASTM C423 & E795

- Sound Absorption Coefficients
- Sabins and m² (metric sabins) reported
- Noise Reduction Coefficient (NRC)
- Sound Absorption Average (SAA)
- Extended frequency range included with all tests (31.5 Hz to 12,500 Hz)
- Mounting Types: A through M, E-400
- Room rental available for research & development work
- ISO 354 results calculations available

NORMAL INCIDENCE SOUND ABSORPTION: ASTM E1050

- Impedance Tube Testing
- 100 mm diameter large tube (80 Hz 1.6 kHz)
- 29 mm diameter small tube (500 Hz 6.4 kHz)
- Cost-effective rates for research & development work

SOUND TRANSMISSION LOSS: ASTM E90 & E413

- Transmission Loss (TL) Values
- Sound Transmission Class (STC) Ratings per ASTM E413
- ASTM E1332 Outdoor-Indoor Sound Attenuation Rating (OITC)
- Extended frequency range available (31.5 Hz to 12,500 Hz)
- Room rental available for research & development work

IMPACT SOUND TRANSMISSION: ASTM E492 & E989

- Impact Insulation Class (IIC)
- Normalized Sound Pressure Levels (Ln)
- Extended frequency range available

DELTA IIC

- Effectiveness of Floor Coverings in Reducing Impact Sound Transmission through Concrete Floors: ASTM E2179 & E989 (Class Determination)
- Measures improvement in impact insulation class due to the floor covering (ΔIIC)
- Frequencies, 21 1/3 octave bands, 50 to 5000 Hz
- Reduction in impact sound pressure levels (Lref, c)

ACOUSTIC ISOLATION ENCLOSURES

- ASTM E596: Noise Reduction of Sound-Isolating Enclosures
- ANSI S3.1: Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms
- ISO 23351-1 Measurement of speech level reduction of furniture ensembles and enclosures

SOUND POWER RATINGS

- ANSI, ARI, ISO, SAE, ASHRAE, MIL standards
- NVLAP Accredited for ANSI S12.51 / ISO 3741
- Direct/Absolute or Comparison Method
- Spectrum, Averaged Sound Pressure (Lp) Values
- Derived Sound Power (Lw) Values
- Extended frequency range available
- Discrete frequency determination (ARI) is available
- Room rental available for research & development work

REFERENCE SOUND SOURCE CALIBRATION

- ANSI S12.5 & S12.51
- ISO 6926 & ISO 3741
- Calibration Tests on all fan type reference sound sources, including: Acculab RSS, ILG, Bruel & Kjaer Type 4204, Norsonic Nor 278, G & G Acoustics Model 60a, etc.

SOUND PRESSURE LEVELS (LABORATORY OR FIELD)

- 1/3 octave (Lp) dB Levels
- Octave (Lp) dB Levels
- dB(A) (Lp) dB Levels
- FFT (Fast Fourier transform)

IN-SITU ACOUSTICAL TESTS

- ASTM E336: Airborne Sound Attenuation between Rooms in Buildings (FSTC, ASTC, NR, NIC, ATL)
- ASTM E1007: Field Measurement of Tapping Machine Impact Sound Transmission through Floor-Ceiling Assemblies (FIIC, AIIC, ANISPL, ISPL)
- Sound Pressure Level (dB-SPL, 1/3 Octave Band, FFT)
- Environmental Acoustic Surveys
- Reverberation Time (T30, T20, etc.)
- Vibration (FFT)
- ASTM E 2964 Door insertion loss, DTC

ACCREDITATION

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.

The scope of the NVLAP accreditation currently includes:

Part 2: Transler-function method 08/P35 ASTM E1060 Impodence & absorption of acoustical materials using a tube, two microphones, and a digital frequency analysis system 08/P44 ISO 364 Acoustics/Measurement of sound absorption in a reverberation room Sound Transmission – Field Coustics/Measurement of the Mormalized Insertion 08/P4100 ASTM E2964 Standard Test Method for Measurement of the Normalized Insertion 08/P31 ASTM E2964 Laboratory measurement of alrborne sound insulation in buildings 08/P41 ISO 10140-3 Acoustics: Laboratory measurement of sound insulation of building elements – Part 3: Measurement of impact sound insulation of building elements – Part 3: Measurement of insulation 08/P406 ISO 10140-2 Acoustics: Laboratory measurement of sound insulation 08/P41 ISO 10140-2 Acoustics: Laboratory measurement of sound insulation of building elements – Part 3: Measurement of insulation 08/P454 ISAE 11400 Laboratory measurement of noise reduction of sound-isolating enclosures 08/P454 SAE 11400 Laboratory measurement of noise reduction of sound-isolating enclosures 08/P46 SAE 11400 Laboratory measurement of noise reduction of sound-isolating enclosures 08/P470 ASTM E506 Field measurem	NVLAP Code	e Designation	Description
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