

Acoustics & Vibration

Architectural Consulting



Field Measurements

Performed with state-of-the-art Soft dB equipment to go beyond traditional methods



Data Analysis

Measurements and simulations based on advanced scientific and processing technologies



Reporting & Advices

Tailored recommendations and solutions proposed to mitigate noise and vibrations

OUR EXPERTISE

Soft dB has been providing acoustical and vibration consulting services since 1996. Our PhDs, engineers and specialized technicians have completed thousands of projects in the architectural, commercial, institutional, residential, environmental and industrial fields.

For your noise and vibration control problems, Soft dB has state-of-the-art expertise. We offer consulting services across North America and Europe through our offices in Boston, Montreal, Quebec, and Luxembourg.

VENTILATION (HVAC)

OFFICE & RESIDENTIAL

HOSPITAL & HEALTHCARE

PUBLIC & EDUCATIONAL

Soft dB

VENTILATION (HVAC)



OFFICE COMFORT & PRIVACY



HOSPITAL AND HEALTHCARE



PUBLIC & EDUCATIONAL



OUR SERVICES

OVERVIEW

Noise pollution in residences, hotels, offices, commercial, governmental, and healthcare buildings affects the productivity, health, and well-being of occupants and should ideally be addressed by an expert during the planning phase before construction to recommend mitigations solutions.

In both cases, Soft dB has all the wealth of experience and expertise to assist you and to maximize your privacy and acoustic comfort.

ARCHITECTURAL SERVICES SUMMARY

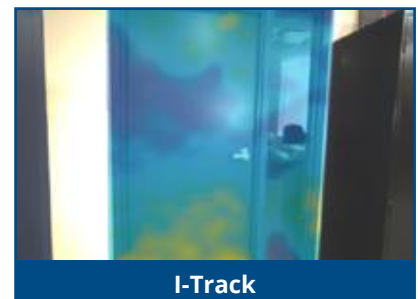
- Full acoustical design services;
- Speech privacy and acoustic comfort assessments and solutions in offices using ASTM metrics: AI, SII, SPC, NC, etc.;
- Noise sources and pathway identification: HVAC systems, elevators, machinery, structure-borne flanking, acoustic weaknesses;
- Building service and HVAC unit sound measurement (AHRI 350, AHRI 575, AHRI 230), noise reduction, vibration isolation and control;
- Control and measurement of reverberation (echoes) throughout offices and meeting rooms, atria, concert halls, auditoria, restaurants, train stations, etc.;
- Assessment and prevention of structure-borne sound transmission;
- Alarm and PA audibility testing (including STIPA);
- Sound insulation design and measurement of facades, separating partitions to ASTM standards : OITC, ASTC/NIC, AIIIC;
- Acoustic modeling using architectural software and Computational Aeroacoustics: RAP-ONE, CATT, dBreeze;
- HVAC airflow and noise prediction in buildings with dBreeze (AHRI 885, ASHRAE);
- Training of architects, engineers, sub-contractors and property developers in acoustic design and correct product installation.

OUR SOUND IMAGERY SOLUTIONS



RAP-ONE II

(Modeling Solution)



I-Track

(Measurement Solution)

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