

# 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 Toronto, Montreal, Quebec, and Luxembourg.

VENTILATION (HVAC)

OFFICE & RESIDENTIAL

HOSPITAL & HEALTHCARE

PUBLIC & EDUCATIONAL

Soft dB

## VENTILATION (HVAC)



# 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 mitigation solutions.

## OFFICE COMFORT & PRIVACY



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

## HEALTHCARE FACILITIES



## PUBLIC & EDUCATIONAL



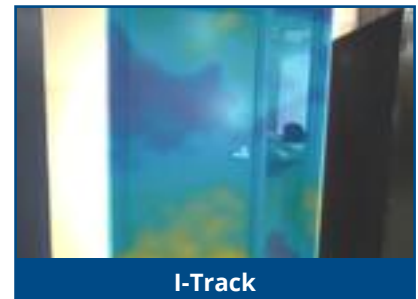
## ARCHITECTURAL SERVICES SUMMARY

- 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, AIIC;
- 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.

## UNIQUE ACOUSTICAL IMAGING AND MODELING SOLUTIONS



RAP-ONE II



I-Track

### ONTARIO

(437) 317-0790  
ontario@softdb.com

### MONTREAL

(514) 774-3800  
montreal@softdb.com

### EUROPE

+352 621 64 61 03  
europe@softdb.com

Call us toll free  
1-866-686-0993

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