

**BUILDING
MOMENTUM
GROUP®**
High-Performance Building Specialists

ACOUSTICS CAPABILITIES OVERVIEW

Design by RdIR Architects



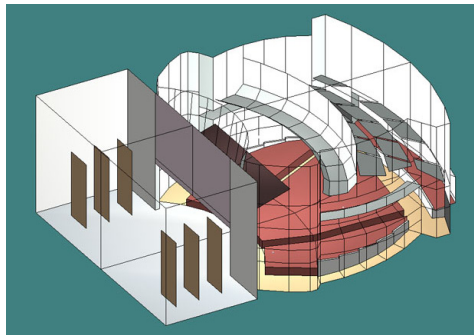
1. Site Selection & Utilization

- Site noise measurements & modeling
- Noise impact on construction cost
- Building location & orientation
- Facade & roof isolation studies



2. Building Occupant Surveys

- Productivity assessment
- Speech privacy & confidentiality
- HIPAA compliance
- Speech intelligibility
- Design criteria setting



3. Acoustic Modeling & Prediction

- Room acoustics
- Environmental noise
- HVAC systems
- BIM/AIM
- Optimization



4. Interior Space Planning

- Proximity of loud & quiet functions
- Acoustic buffer spaces
- Horizontal & vertical adjacencies

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5. Interior Communication & Comfort

- Room size & shape
- Finish material selection & location
- Enhanced acoustics for speech

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6. Isolating Construction

- Facades & roofs
- Interior walls, windows & doors
- Floors & ceilings



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7. Building System Noise Control

- HVAC, electrical & plumbing systems
- Community noise impact
- Indoor environmental quality (IEQ)
- Criteria setting & standards compliance

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8. Exterior Ambiance

- Acoustic transitions
- Masking sounds
- Courtyards
- Plazas
- Atria



9. Auditory Simulations

- Cost/benefit analysis
- A/B comparisons
- Design decisions
- Fund raising

Image courtesy Bruel & Kjaer



10. Building Testing & Assessments

- Facade isolation
- Airborne noise through walls & floors
- Impact noise through floors & ceilings
- Room acoustics & speech intelligibility
- Vibration

Image courtesy of ICC/IGCC



SAFE & SUSTAINABLE BY THE BOOK



11. Codes & Standards Compliance

- International Green Construction Code
- LEED & HIPAA
- GSA P-100



12. Complete Soundscapes

- Influence behavior with sounds
- Auditory branding & Signature sounds
- Experiential Environments