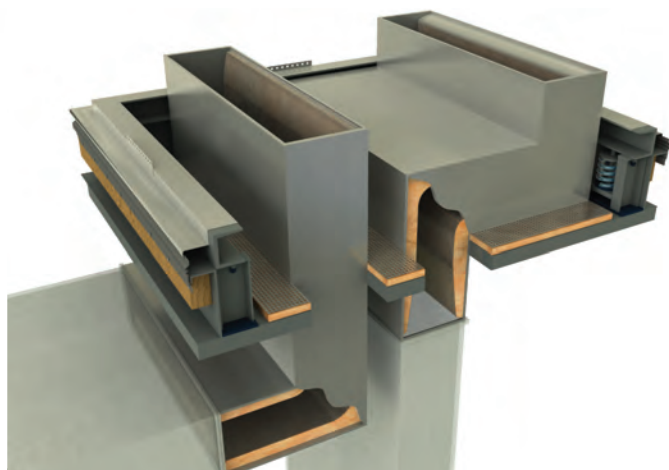
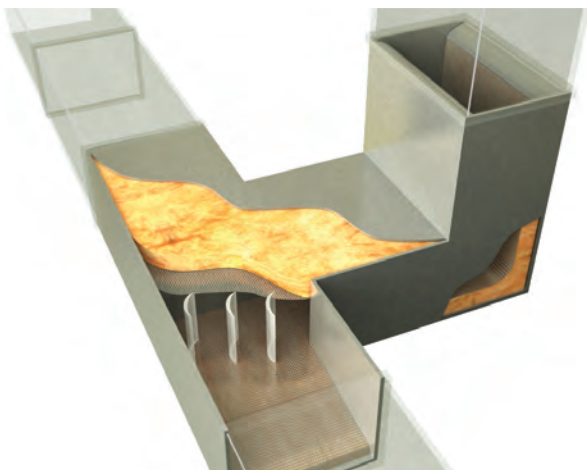


VIBRO-ACOUSTICS®

Noise Control | Vibration Isolation | Restraint Systems



The Integrated Systems
Approach, Illustrated

Lay-in service... working together at the design stage.

On average, consultants save 16 hours per project when working with Vibro-Acoustics.



Our free Lay-in (design assist) service is the execution of the Integrated Systems Approach. Your risk is uniquely minimized, because we take ultimate responsibility for the performance of noise, vibration and seismic/wind control in your HVAC system.

As an extension of your design team, we add value through the time and money you save on billable hours. On average, consultants save 16 hours per project when working with Vibro-Acoustics. We work with you through all project deliverables, regardless of the number of revisions, and provide ready-to-use material for incorporation with your construction documents.

Our Lay-in service is a step-by-step process that includes:

- **Performing a complete system analysis** – Vibro-Acoustics will analyze acoustics, aerodynamics, vibration, seismic/wind requirements and project-specific limitations (cost, space, IAQ requirements, etc.).
- **Selecting the appropriate solution** – based on the specific system requirements, Vibro-Acoustics will select the best possible solution for the project.
- **Recommending product locations** – the location of the product is often as important as the product itself. Vibro-Acoustics will specify exact product locations.
- **Solution Evaluation** – based on the system analysis and the project limitations, Vibro-Acoustics' Application Engineering team will provide an evaluation and, if needed, other recommendations on how to meet the desired design criteria.

Our deliverables to you are:

- An acoustical system analysis printout: the calculations and steps to determine how much noise control or vibration isolation is needed.
- A complete product schedule.
- Project drawings, marked-up to illustrate the noise control locations we recommend.
- Detailed specifications – tailored to your project – in rich text format.

Put us to the test with your unique situation.

We'll work with you from the cocktail napkin to the ultimate solution. All we need are:

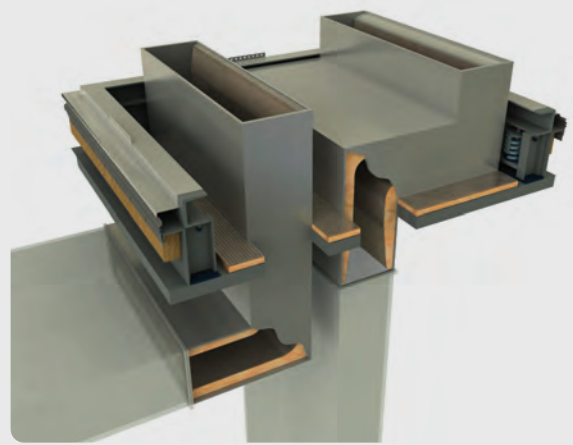
1. Equipment sound power levels (e.g. AHUs, fans, VAV boxes).
2. Drawings or sketches of system layout (BIM and CAD drawings welcome).
3. Desired sound criteria for occupied spaces.
4. For Seismic Projects: The Seismic Design Category (page 1 of the structural drawings) and the Component Importance Factors (I_p) for the HVAC equipment (USA only).

For more information on our Lay-in service, please visit our website (vibro-acoustics.com) or send us an email (SASS@vibro-acoustics.com).



T-elbow silencers are very effective for noise control of air handlers and rooftop equipment because they enable designers to locate the silencer close to the noise source, while also branching off their duct runs at the same location.

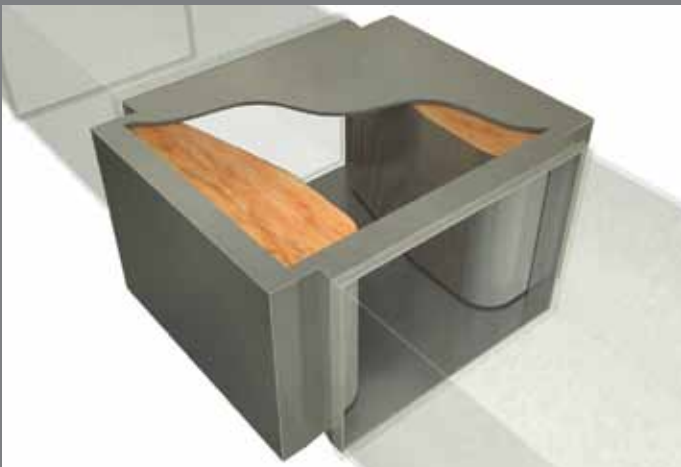
Silencers do not have to add significant pressure drop to your system. EX casing silencers are designed with the majority of the acoustic media out of the airstream and RLP silencers with all of the acoustic media out of the airstream – resulting in noise reduction with minimal added pressure drop or energy consumption. Designs can keep added pressure drop down between 0 and 0.10 inch WG.



The Vibro-Acoustics VCR curb, with an integrated noise-control system, provides vibration isolation for rooftop units – reducing structure-borne noise and also addressing both airborne and radiated noise concerns. For code compliance, Vibro-Acoustics performs the overturn and anchorage calculations for seismic and wind loading. A detailed analysis of both the connection of the unit to curb, and curb to roof structure are undertaken. And to keep pressure drop to a minimum, aerodynamically designed acoustic splitters shape the airflow between the unit and connecting ductwork.

A 3D rendering of a complex industrial piping system. The image shows a dense arrangement of parallel pipes, likely for a chemical or petrochemical plant. On the left, a prominent black pipe is wrapped with orange safety bands. To the right, a metal walkway with a grid floor is visible, providing access to the piping. The scene is illuminated with a warm, yellowish light, highlighting the metallic surfaces and the structural complexity of the system.

Projects often call for numerous sub-trades working in tight spaces, and since each sub-trade is required to install the seismic restraints for its own systems, the process can become complicated – often causing one trade to violate another’s work. Vibro-Acoustics can reduce the risk of the entire building not complying with code by providing on-site trade coordination, as well as one sign-off letter for all trades.



vibro-acoustics.com

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