

VIBROACOUSTICS®

Noise Control | Vibration Isolation | Restraint Systems



RRK-V Rigid Restraint Kits

Why Rigid?

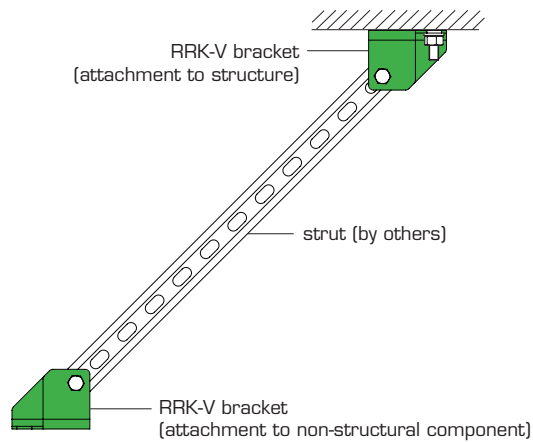
When it comes to restraining suspended, non-structural components against seismic, wind or blast forces, engineers are given two choices: cable or rigid restraints. Non-structural components can include piping, ductwork, or suspended equipment such as fans and VAV boxes; however, the suitable restraining method is not determined by the system type. When vibration isolation is required, cable restraints should be used to prevent the vibration from transferring to the structure. Under other conditions, Vibro-Acoustics' rigid restraint system can offer some notable benefits—the main advantage being simple and quick installations. Here's how...



How it Works

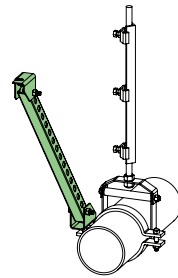
Vibro-Acoustics' RRK-V rigid restraint system consists of two seismically-rated brackets fastened to the ends of a strut for securing the non-structural component to the structure. While cable restraints are used in pairs, a single rigid restraint can work in both tension and compression to provide the required resisting force for a single load direction (longitudinal or transverse). Where there is a requirement for both longitudinal and transverse restraints, only two rigid restraints are necessary, as opposed to four cable restraints.

Generally, the same strategies used to determine spacing and location of cable restraints can also be used for Vibro-Acoustics' rigid restraints. It is important, however, to follow the principles shown on the right to ensure these restraints are applied properly.

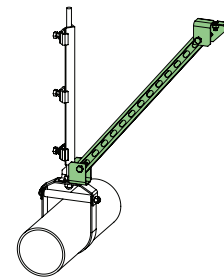


3 Common Ways to Apply Vibro-Acoustics' RRK-V

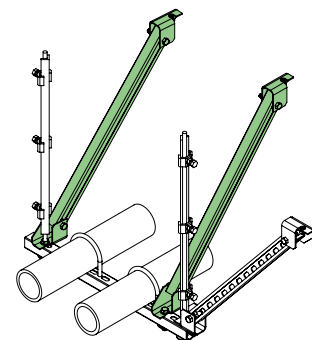
To resist the **longitudinal load**, use a single rigid restraint parallel to the piping, ductwork, or suspended equipment.



To resist the **transverse load**, use a single rigid restraint, perpendicular to the piping, ductwork, or suspended equipment.



When used for **trapeze systems**, a pair of rigid restraints should be used for the longitudinal restraint to prevent twisting of the trapeze.

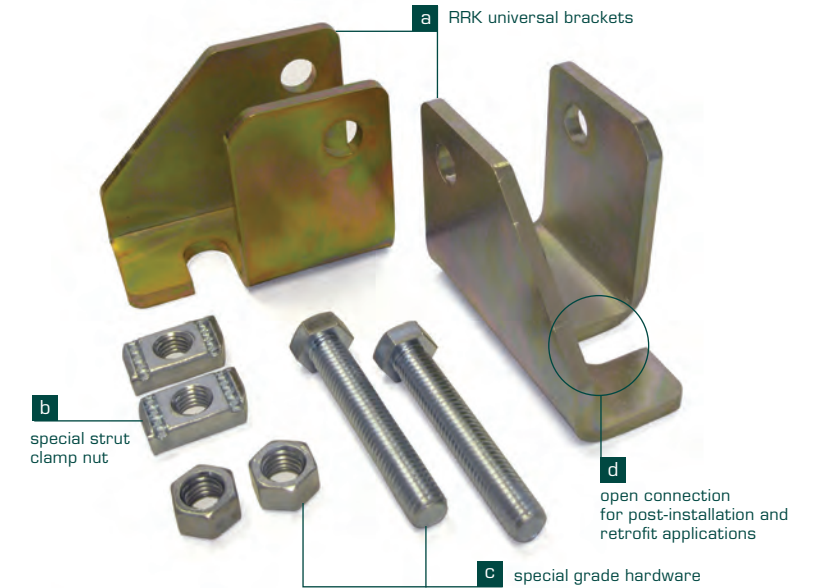


RRK-“V” for “Vibro-Advantage”

Vibro-Acoustics' RRK-V kit is the smart choice for rigid restraint.

RRK-V Rigid Restraint Kits

Available in RRK-V-800 lbs RRK-V-1400 lbs	Each kit includes: (a) universal brackets (b) special strut clamp nut (c) special grade hardware (d) open connection for post-installation and retrofit applications.
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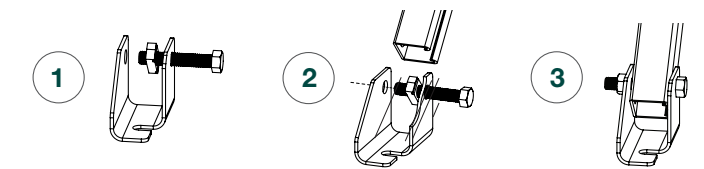
Universal brackets

The RRK-V's universal brackets can be used for both equipment and structure attachments. This helps the installer avoid mix-ups that could result from having unique brackets for the two types of attachment.

Color-coded for capacity identification

RRK-V-800 and RRK-V-1400 brackets can be identified easily from a distance by the colors applied for their corrosion protection. RRK-V-800 is silver, and RRK-V-1400 is chromate (golden) zinc-plated.

Installation: It takes 10 minutes less

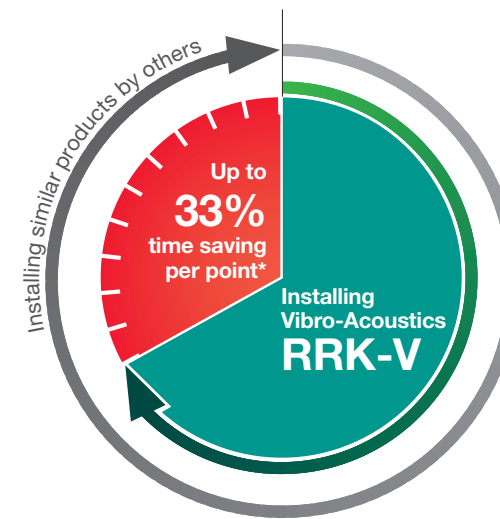


Our RRK-V kits require no drilling, since the design incorporates a special channel nut to secure the strut to the bracket. This saves installation time by an estimated 10 minutes per restraint as compared to other methods.

For attachment post-installation

RRK-V kits are designed to be mounted to the system after all installation is completed, so if contractors must add seismic restraints to existing non-structural components, there is no need to disassemble the system. This is an important time-saving advantage for the installers.

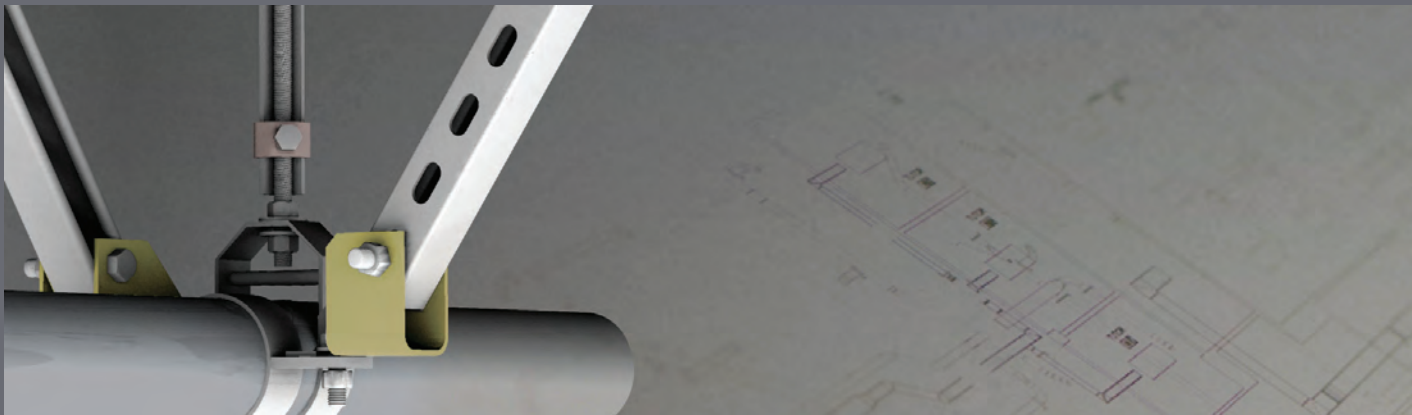
*For the installation of 100 restraint points, that's a savings of more than 16 hours.



Single-Source Responsibility

Along with rigid restraints, Vibro-Acoustics provides the necessary cable restraints and vibration isolation for your entire project. Our building code experts perform the required design calculations and provide PE/P.Eng. stamping of designs for all 50 U.S. states and all 10 provinces plus 3 territories in Canada. Our application engineers will assist with writing specifications, while our field engineers facilitate trade coordination and site inspections to reduce the contractors' and consultants' risk. Vibro-Acoustics offers single-source responsibility for noise, vibration and restraint systems.

Contact Vibro-Acoustics or your local sales representative today to find out more about our RRK-V Rigid Restraint Kits and free Lay-in (design assist) Service.



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