

# VIBRATION MANAGEMENT CORPORATION

5930 THOMAS ROAD, HOUSTON, TEXAS 77041, USA

TEL: +1-713-983-VIMCO  
+1-713-983-8462

FAX: +1-713-983-9933

E-MAIL: sales@vimco.biz

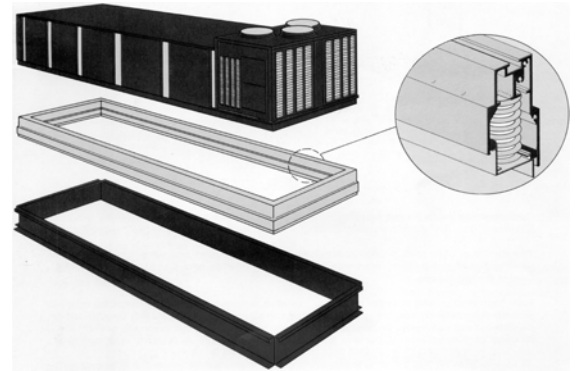
WEB: www.vimco.biz

## 'AR' ROOF CURB ISOLATION RAILS

VIMCO 'AR' aluminum spring rails are an excellent choice to isolate noise and vibration transmitted from curb mounted rooftop equipment into occupied spaces. The rails are custom designed to fit between standard roof curb and equipment, providing continuous support and an air and watertight seal.

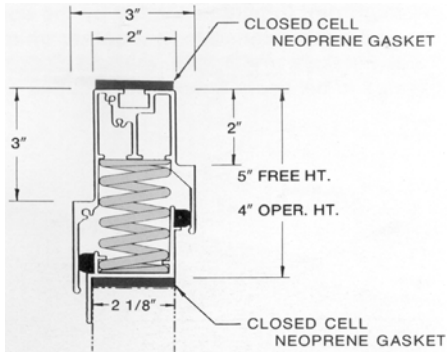
The 'AR' rails combine extruded aluminum construction with 1" deflection zinc plated springs, totally enclosed to provide weathertight and corrosive protection. Springs are free standing, laterally stable and computer selected to ensure uniform loading and deflection for the entire system.

To simplify installation, 'AR' rails are manufactured and shipped in 4 separate sections. Once at the jobsite they are designed to fit together on the conventional roof curb forming a complete frame.

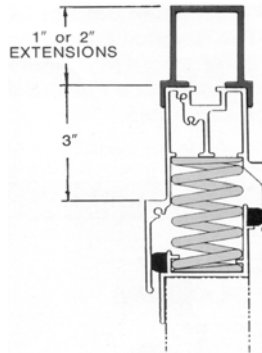


### OPTIONAL FEATURES:

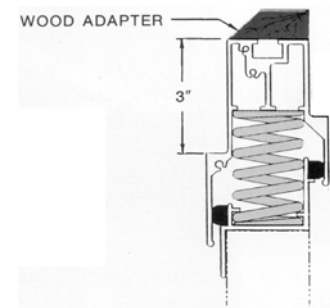
The standard 'AR' rails can be furnished with a continuous closed cell neoprene gasket on either the top, bottom or both surfaces.



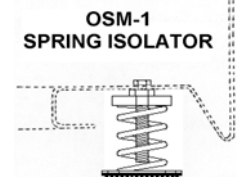
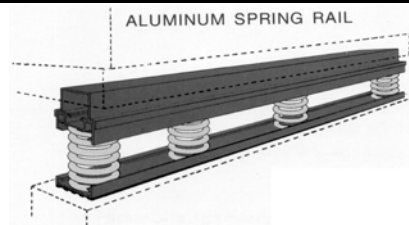
One inch or two inch extruded aluminum extensions are furnished when the equipment's base rail exceeds three inches.



Custom treated wood adapters are furnished as part of the 'AR' rails to accommodate unique equipment base rail configurations.



If the condenser section is supported by a separate pedestal beyond the standard roof curb, a separate aluminum spring rail or multiple OSM-1 isolators are provided to support this overhung section.



### Local Representative :

Due to our policy of continual product development and improvement, all specifications are subject to change without prior notice. Please consult your local rep. for updates.

### Catalog no.

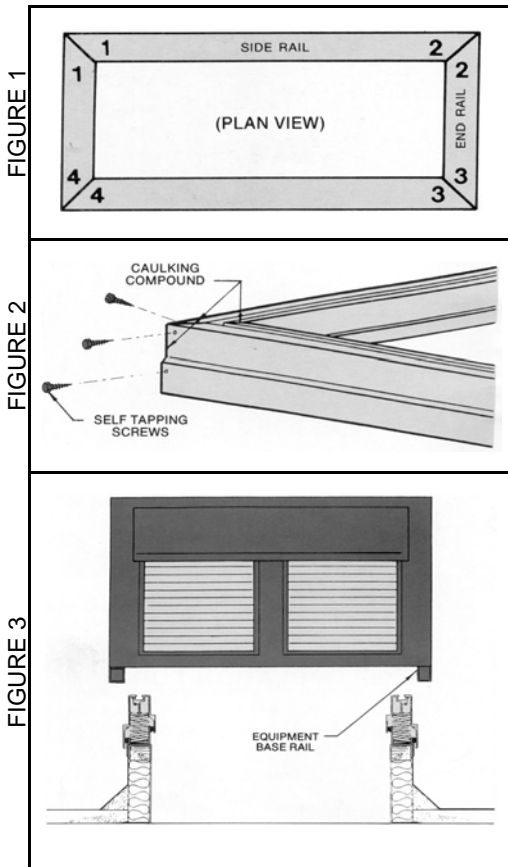
**P - 3001**  
Rev. 0

## **SUGGESTED SPECIFICATIONS:**

1. Curb mounted roof top equipment shall be isolated from the building structure by VIMCO model 'AR' aluminum rails incorporating one inch static deflection springs.
2. The aluminum rails shall provide continuous equipment support and weathertight protection while built to fit on top of the conventional roof curb supplied by others and to match the underside of the equipment.
3. Each rail system shall consist of upper and lower extruded aluminum members constructed to totally enclose and resiliently seal the springs from the corrosive effect of outside and conditioned air. Dual closed cell continuous neoprene seals shall be utilized to seal the assembly, prevent metal to metal contact between upper and lower members and serve as resilient wind restraints.
4. All springs shall be free standing and laterally stable, having a minimum spring diameter to compressed height ratio of 0.8, and shall provide 50% additional travel to solid beyond rated loads. Springs shall be electro-zinc plated to prevent rust, and factory spaced to insure uniform deflection under the imposed load.
5. The isolation rails shall consist of four separate sections having mitered pre-drilled corners. Utilizing self-tapping screws, the sections shall be assembled together by others at jobsite forming a rectangular frame.
6. All joints are to be sealed with a bead of resilient silicone caulking. Caulking and all connecting hardware shall be supplied by the isolation manufacturer.
7. All supply and return air ducts shall be flexibly connected to prevent vibration transmission to the building structure. In addition, flexible connectors shall be installed on all water, gas and electrical conduits.

## **INSTALLATION INSTRUCTIONS:**

The 'AR' aluminum rails are shipped in sections requiring jobsite assembly by the contractor. The rails consists of four separate sections designed to fit together on the roof curb, forming a rectangular frame. Each section includes mitered, pre-drilled, marked corners and is composed of a top and bottom assembly with springs in between. These two members are not to be separated.



1. Erect standard roof curb at designated roof location and install weatherproof flashings.
2. Place the two end rail assemblies on top of the roof curb. Arrange the so that the supply, return or condenser tags marked on the rails match the proper roof openings or equipment configurations. (figure 1)
3. Once the end rails are properly set, install the side rail assemblies on top of the curb, matching the marked corners 1,2,3,4. (figure 1)
4. Partially fasten each of the four mitered corners using VIMCO supplied self tapping screws leaving a 1/16 inch opening for caulking. (figure 2)
5. Caulk joints with silicone caulking compound supplied by VIMCO. Tighten all screws creating a weather tight seal. (figure 2)
6. The 'AR' rails are now ready. Install the rooftop unit on top of the assembled isolation rails. (figure 3)

# VIMCO

5930 Thomas Road, Houston, Texas 77041, U.S.A.

Internet Address: [www.vimco.biz](http://www.vimco.biz)

T: +1-713-983-8462 F: +1-713-983-9933 E: [sales@vimco.biz](mailto:sales@vimco.biz)