

## VIP-Gasket Overview

### Applications

- Vibration reduction of roof mounted equipment
- Built-in vibration isolation

### Features

- Gasket material
- Adhesive backing for easy installation
- Built-in, inherent isolation properties
- Can be stacked to increase natural frequency
- Meets applicable testing requirements
- Quick lead time

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## VIP-Gasket System

The VIP-RT Gasket system is designed to adhere to any roof curb in order to 1) seal the equipment to the curb ductwork and 2) reduce the noise and vibration emitting from the piece of equipment.

The VIP-RT Gasket system is manufactured in a 1.0" x 0.5" x 50'-0" foam roll. The foam backing is an adhesive PSA which allows for easy installation. The foam is then applied to the top surface of the entire roof curb and duct supports to ensure proper sealing and vibration isolation of the piece of equipment.



VIP-RT Gasket System

## VIP-RT Gasket Attributes

Why use vibration isolation under your roof-top-units? Prepackaged RTUs have a number of different components that can create mechanical vibration. Some of these can be individually isolated but most cannot. The VIP-RT Gasket system uses a foam adhesive in order to not only seal a roof mounted piece of equipment to its curb; but also, to reduce vibration isolation from that piece of equipment.

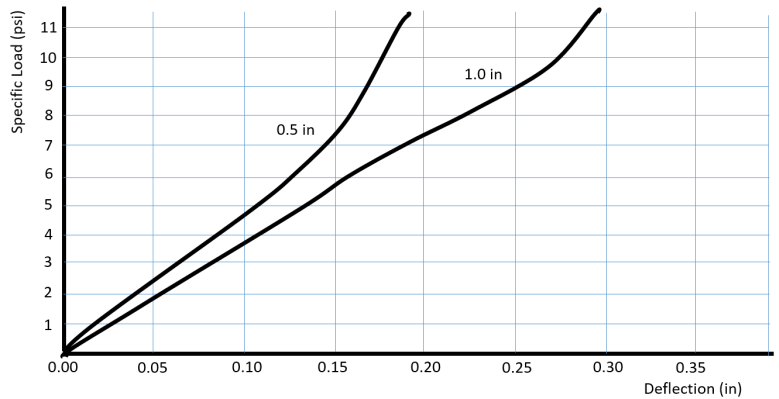
## VIP-RT Gasket Static Range of Use

To ensure maximum potential of the VIP-RT Gasket system, the standard operating load should be between 3- 9 p.s.i.

Physical Property	Test Method	Unit	Result
Water Absorption (Max)	ASTM D1056	%	10
Tensile Strength (Typical)	ASTM D412 (DIE A)	psi kPa	75 517
Elongation (Typical)	ASTM D412	%	125
Tear Strength	ASTM D624 (Die C)	lb/in kN/m	9.6 1.7
CD Change After Oven	ASTM D1056	%	+/- 30
Resilience (Typical)	ASTM D2632	%	35

### Load Deflection Curve (Figure 1)

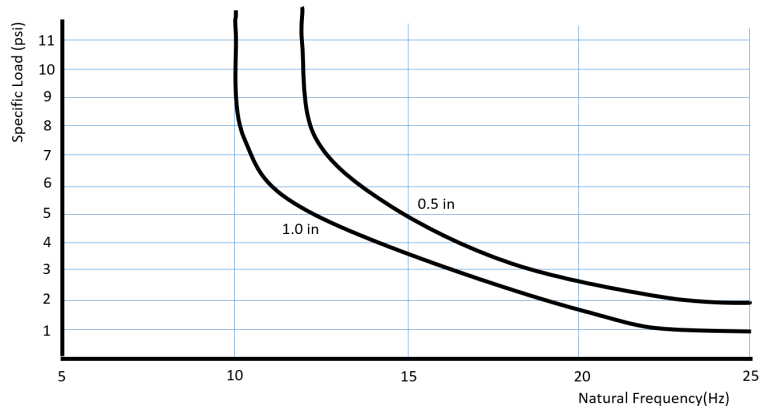
Figure 1 (at right) shows the amount the VIP-RT material will deflect under a given psi range. The material is designed to be loaded up to 10 psi.



**Figure 1**

### Natural Frequency (Figure 2)

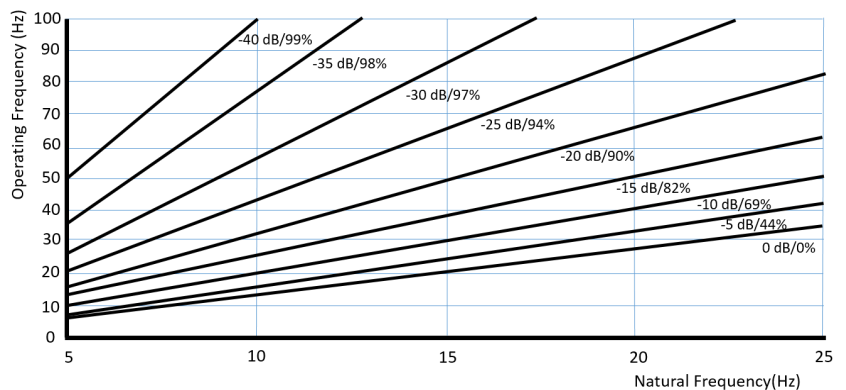
Figure 2 (at right) shows the natural frequency of the VIP-RT when under a pressure ranging from 0 to 11 psi.



**Figure 2**

### Vibration Isolation Efficiency (Figure 3)

Figure 3 (at right) shows at the designed range of the use, the Isolator Efficient will range from 69%, 10 dB to 90%, -20dB. This assumes the average operating frequency<sup>1</sup> of 50Hz.



**Figure 3**

<sup>1</sup> To calculate operating frequency (force frequency), multiply the number of fan blades by the fan speed. Convert this number to Hertz (Hz).

For more information regarding the VIP-RT Gasket system or any of the VIB-ISO products, please visit us on the web at [www.vibiso.com](http://www.vibiso.com).