

# INSTALLATION AND HANDLING GUIDELINES

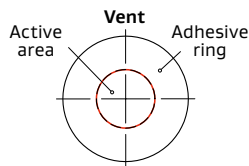
## Parts: All series of GORE® Acoustic Vents for Industrial Applications

The following guidelines are based on Gore's best practices for handling and installing GORE® Acoustic Vents for Industrial Applications. Please follow the guidelines to maximize the performance of the vent for the lifetime of your product.

### Storage Recommendations

- Store unused vents for a maximum of one year in the original packaging with the item/lot number attached.
- Keep all vents out of direct sunlight and away from heat sources.
- Gore recommends to store products in cool dry conditions (20–25 °C with 30–50% RH).

**Figure 1:** Active area of a GORE® Acoustic Vent. For most acoustic vents, the adhesive side faces the liner.



### Handling Guidelines

1. Wear latex-free gloves or finger cots when handling acoustic vents. Avoid direct contact with the active venting area (Figure 1) or adhesive ring.
2. Avoid contact with rough surfaces and keep all sharp or jagged items away from the active venting area.
3. Although all GORE® Vents are quality-inspected before shipment, please inspect all parts upon receipt. If you suspect your parts are damaged, notify your local Gore representative immediately.

## Installation Guidelines

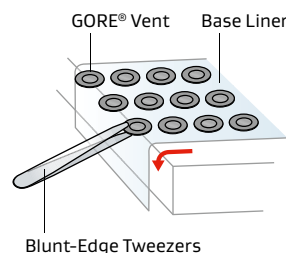
### Preparing the Surface

1. Be sure your hands and the area around the mounting surface is clean and free of oils, mold, and other contaminants that might prevent the vent from adhering to the mounting surface.
2. Clean the mounting surface with an appropriate cleaner, such as isopropyl alcohol and cloth. Ensure the surface is dry prior to installation.
3. Smooth out any sharp edges caused by the machining process.
4. Inspect the mounting surface for defects, such as knit lines, parting lines, and flash. If any defects are found, do not apply the vent.
5. Ensure that the vent and housing temperature should be 10–25°C.
6. Factors like surface finish, profile and energy play a significant role when installing acoustic vents to enclosures.

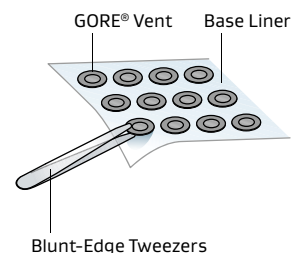
### Separating the Vent from Liner

1. Be sure to use blunt-edged tweezers to remove the vent from the liner. Do not use pointed tweezers because they can damage the vent.
2. Use one of the following methods to pick up the vent:
  - Roll the base liner slowly over the edge until the vent extends slightly beyond the liner (Figure 2) or firmly bend the liner (Figure 3).
  - Gently remove the vent from base liner.

**Figure 2:** Rolling the liner.



**Figure 3:** Removing vent from liner.



### Positioning the Vent

1. Mount the vent on a flat, vertical surface to avoid any liquids or other contaminants from pooling on the surface.
2. Establish a target area on the vent housing to accurately position the vent. A target area with a raised ridge around the circumference may help to prevent damage to the vent edge in challenging environments.
3. Using the target frame as a guide, position the vent on the mounting surface completely inside the target frame, but not touching the walls (Figure 4).
4. If the vent is not positioned correctly, do not reuse or reposition the vent. Remove the vent from the housing, clean the mounting surface again, and install a new vent.

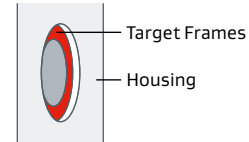
### Mounting the Vent

In general Acoustic Vents for Industrial Applications shall be installed from the inside (Figure 5). Product Series AVP434 can be installed from inside but as well on PCB (Figure 6).

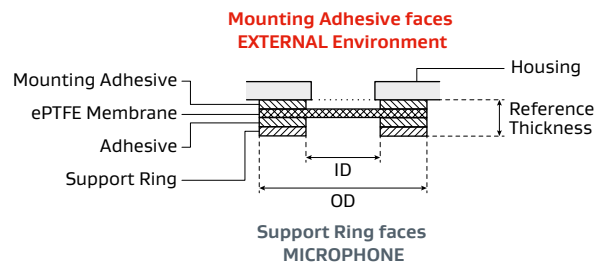
### Compression to ensure robust installation

1. Apply light finger pressure of 3–5 psi (0.21–0.34 bar) perpendicular to the vent for 5–10 seconds to the adhesive area of the vent only. Do not touch the active area.
2. To ensure a robust installation of the vent, use a compression aid to apply secondary compression on the adhesive ring. To prevent contact with the active area, use a compression aid with the following specifications (Figure 7):
  - a. Perpendicular alignment to ensure correct positioning with target area.
  - b. Rubber thickness greater than 5.0 mm.
  - c. Rubber softness of durometer of 20–40 Shore A.
  - d. Relieved area to prevent contact with active area.
3. Allow the vent to set for 24 hours before using or testing it.

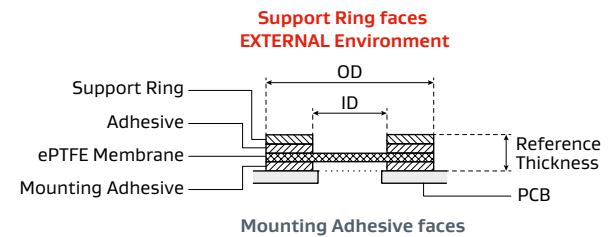
**Figure 4:** Target ring used to identify correct position of a GORE® Acoustic Vent.



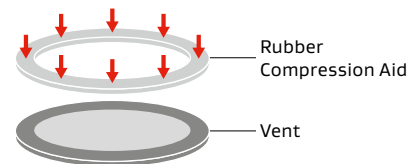
**Figure 5:** Mount on housing.



**Figure 6:** Mount on PCB.



**Figure 7:** Sealing the vent to the housing.



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