



Portable Electronic Vents

Installation and Handling Guidelines

Parts: All series of GORE® Acoustic Vents and GORE® Pressure Vents

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

STORAGE RECOMMENDATIONS

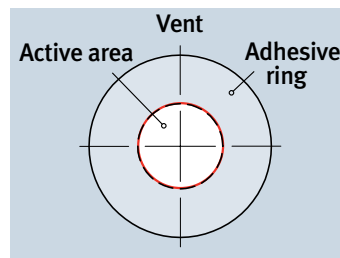
- Store unused vents for a maximum of one year in the original packaging with the item/lot number attached.
- Keep all vents out of direct sunlight and away from heat sources.
- Store vents in a clean, cool, dark environment at approximately 21°C (70°F) with 50 percent relative humidity (RH).

HANDLING GUIDELINES

1. Wear latex-free gloves or finger cots when handling adhesive 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.

FIGURE 1: ACTIVE AREA OF A GORE® PORTABLE ELECTRONIC VENT



For most acoustic vents, the adhesive side faces the liner. For vents without adhesive, the backer side faces the line.

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. The surface roughness of the mounting area should not exceed 0.4 µm Ra per the American National Standard ANSI B46.1.

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).
 - If applicable, gently tear the perforation in the liner to separate the liner from the vent (Figure 3).
 - Gently remove the vent from base liner (Figure 4).
3. If the vent has a pull tab, ensure the slit, if any, remains intact when separating the vent from the liner.

FIGURE 2: ROLLING THE LINER

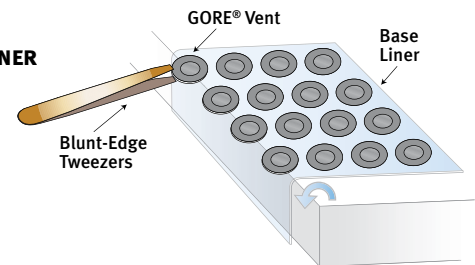


FIGURE 3: TEARING PERFORATION IN LINER

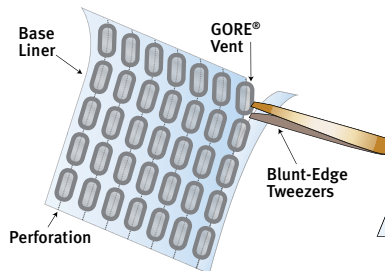
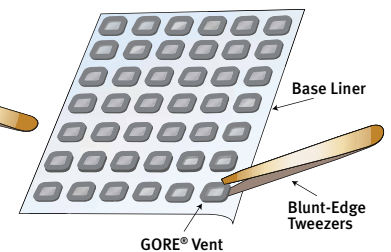


FIGURE 4: REMOVING VENT FROM LINER



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.

NOTE: Guidelines may vary from part to part.



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- 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 5).
- 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

- Ensure that the ePTFE membrane faces the external environment before mounting the vent (Figure 6).

Compression

- 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. Compression time may vary based on part construction.
- To ensure that the vent is firmly attached after sealing the vent, use a compression aid to apply secondary compression. To prevent contact with the active area, use a compression aid with the following specifications (Figure 7):
 - Perpendicular alignment to ensure correct positioning with target area
 - Rubber thickness greater than 5.0 mm
 - Rubber softness of 20–40 durometer
 - Relieved area to prevent contact with active area
- Allow the vent to set for 24 hours before using or testing it.

Removing the Pull Tab

- If applicable, carefully remove the pull tab to avoid damaging the vent.
 - If the tab has a slit, remove the tab at the slit, and continue to remove the rest of the tab in a circular motion (Figure 8).
 - Do not remove parts by using the pull tab

NOTE: Guidelines may vary from part to part.

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All technical information and advice given here is based on Gore's previous experiences and/or test results. Gore gives this information to the best of its knowledge, but assumes no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. The above information is subject to change and is not to be used for specification purposes.

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FIGURE 5: TARGET RING USED TO IDENTIFY CORRECT POSITION OF A GORE® PORTABLE ELECTRONIC VENT

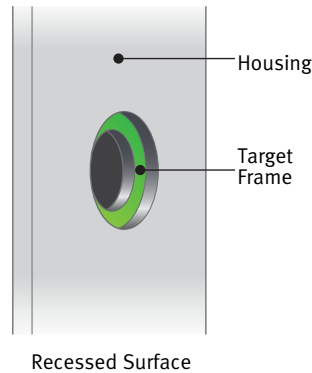


FIGURE 6: MOUNT

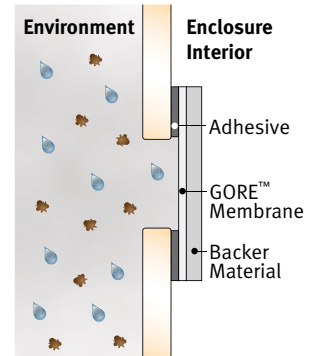


FIGURE 7: SEALING THE VENT TO THE HOUSING

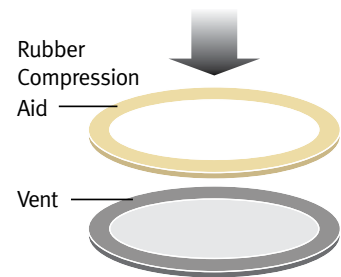
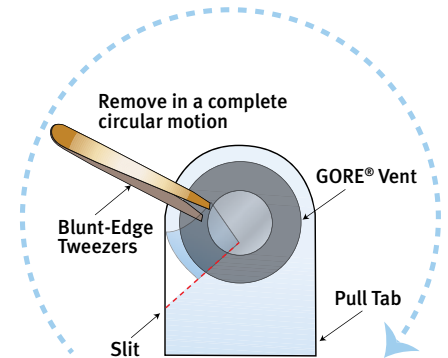


FIGURE 8: REMOVING PULL TAB WITH SLIT



NOTE: W. L. Gore & Associates Quality Assurance Procedure dictates removal of some vents from the liner prior to shipment. Sufficient extra length of liner and vents is provided to make a full product count. This procedure assures that all parts are handled minimally to avoid contamination and/or damage.

For additional questions about handling and installation, please contact a Gore representative.

