

Clarion Safety Systems

Installation Guide for Application of Rigid Signs



Reducing Risk, Protecting People

Clarion Safety Systems · 190 Old Milford Road · P.O. Box 1174 · Milford, PA 18337 · P: (800) 748-0241 · F: (800) 748-0536 · www.clarionsafety.com

Sign Mounting Instructions.docx – Rev 10/10/2013

Attention Sign Installation Department:

Thank you for choosing Clarion! Considering the important role of your safety signs, these installation instructions will help you mount our signs effectively to the intended mounting surface.

Introduction:

Clarion signs are intended to be mounted in a vertical orientation. Clarion offers various sign mounting options depending on the type of sign mounting method required, the surface to which the sign will be mounted to and the environment in which the sign will be exposed. If you have any questions, please do not hesitate to contact us.

Health and Safety:

Refer to the Material Safety Data Sheets for health and safety information on the products referenced in this bulletin.

Materials Needed:

1. The signs.
2. Appropriate mounting hardware (see below).
3. Tape measure and pencil to measure and mark mounting location.
4. A level to be sure the sign is mounted level and plumb.
5. A drill and bit for mounting with screws and anchors.
6. A clean, lint-free, dry rag or absorbent paper towel for adhesive tab mounting.
7. For relatively clean surfaces: Isopropyl alcohol
8. For contaminated surfaces (see the surface preparation section of this guide), a petroleum distillate based cleaner, detergent, scrub brush and warm water. If a petroleum distillate based cleaner is needed, any of the following solvents may be used: DuPont's Prep-Sol Brand Solvent Cleaner 3916S, Sherwin Williams R7-K156 Sher-Will-Clean, Xylol, lacquer thinner, VM&P Naptha, or 3M Adhesive Cleaner and Wax Remover 8984. Call Clarion if you need information on where to purchase one of the above listed products. **NOTE:** *Spot test these solvents prior to use since they may dull some painted surfaces.*

Mounting Methods:

Clarion signs can be mounted with either indoor/outdoor adhesive tabs or mounting holes.

Adhesive Mounting Tabs:

- **Indoor/Outdoor Adhesive Tabs:** This mounting method is intended for permanent mounting on indoor/outdoor smooth and flat vertical surfaces such as glass, steel, dry wall, plastic, sealed concrete or block surfaces using 3M VHB double-sided foam tabs. The indoor/outdoor mounting surface must be clean and dry to ensure good adhesion. (See surface preparation and application procedure below) **NOTE:** *3M™ VHB™ Tapes are permanent and will create a lasting bond to the prepared surface application.*



- **General Surface Preparation:**
 - All surfaces should be considered unclean and MUST be cleaned prior to application of the adhesive tabs.
 - To obtain optimum adhesion, the bonding surfaces must be well unified, clean and dry.
 - Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol (IPA*) and water prior to applying 3M™ VHB™ Tapes.
 - Between each alcohol wipe, wipe the surface dry with clean lint-free rags or absorbent paper towels.
 - For contaminated surfaces (residue of oil, grease, wax, etc.) it is important to note that a petroleum distillate based cleaner must be. Isopropyl alcohol evaporates too rapidly and effective cleaning does not take place.
 - When cleaning contaminated surfaces, if visible dirt is present, wash the surface with detergent and water. Saturate a clean cloth with the petroleum distillate based cleaner and wipe the substrate's surface.
 - Dry the surface with a lint-free cloth before the solvent evaporates from the surface.
 - Repeat as needed.
 - **Exceptions to the general surface preparation** that may require additional surface preparation include:
 - **Heavy Oils:** A degreaser or solvent-based cleaner may be required to remove heavy oil or grease from a surface and should be followed by cleaning with IPA/water.
 - **Abrasion:** Abrading a surface, followed by cleaning with IPA/water, can remove heavy dirt or oxidation and can increase surface area to improve adhesion.
 - **Adhesion Promoters:** Priming a surface can significantly improve initial and ultimate adhesion to many materials such as plastics and paints.
 - **Porous Surfaces:** Most porous and fibered materials (such as wood, particleboard, concrete, etc.) need to be sealed to provide a unified surface.
 - **Unique Materials:** Special surface preparation may be needed for glass and glass-like materials, copper and copper-containing metals, and plastics or rubber that contain components that migrate (e.g. plasticizers).

- **Application Procedure**
 - Prior to application of pressure sensitive adhesive tabs, the surface to be adhered to must be at least 50°F. The signs should be above 60°F (the adhesive may become too firm to adhere readily below this temperature). Ideal application temperature for 3M™ VHB™ Tapes are between 70°F and 100°F.
 - Make sure the surface is clean and dry.
 - Mark the correct position for the sign. Using a level, mark off the location of the sign with a pencil.
 - Remove liner from one side of the supplied adhesive tabs and place each one at all corner and side locations and evenly located throughout the center area of the sign back.
 - Remove the remaining liner from the adhesive tabs. Position the sign at the location to which it will be mounted and align the sign with the level and plumb marks. (Be careful not to touch the adhesive with your fingers or to allow the adhesive to become contaminated with dust, dirt, etc.).
 - Using firm pressure, press the sign firmly into place. Firm pressure provides a higher immediate bond and allows the adhesive to "flow" into the tiny cracks and crevices between the adhesive and the surface. The adhesive bond will grow stronger with time, achieving final bond strength in approximately 72 hours.

Mechanical Mounting:

- Because of the variety of mounting surfaces and requirements for sign mounting, Clarion has multiple options of mounting hardware available for purchase. You, the customer, will know what hardware is best suited to mount your signs based on the type of mounting surface, and the environment of use.
- When using mounting screws, Clarion recommends using flat or finish washers under the mounting screw head. This will ensure that the sign material will not be damaged by the screw as it is tightened in place.
- For outdoor sign mounting, or in potentially corrosive environments, Clarion recommends using stainless steel or galvanized mounting hardware.

Additional Information

It is the responsibility of the installer to verify that the sign is properly and securely mounted using the appropriate mounting method and hardware. Various conditions may require other mounting hardware.

Limited Warranty

Clarion signs are fully warranted to be free from defects in material and workmanship at the time of shipment. Clarion products are sold with the understanding that the customer will test them in actual use and determine for themselves whether or not the materials meet their intended use requirements. Clarion warrants to the customer that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Clarion's satisfaction to have been defective at the time Clarion sold it. This warranty does not extend to any persons obtaining the product from a reseller. This warranty is in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Clarion's part. Under no circumstances will Clarion be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Clarion's products.

Questions/Concerns?
Clarion Safety Systems, LLC
190 Old Milford Road
Milford, Pennsylvania 18337
P: 800-748-0241
F: 800-748-0536
W: www.clarionsafety.com

