



Science.
Applied to Life.™



**Innovative solutions
applied to signage.**

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With thousands of signs guiding people every day, their structural integrity needs to be a top priority no matter the size or shape.

3M Brings Innovation to Sign Design

Using traditional fabrications techniques such as rivets, screws and spot-welding can necessitate design compromises and cost penalties. 3M offers a comprehensive range of alternative bonding solutions that provide aesthetic and durable results tailored to material choice and sign design.

The 3M product range offers signage solutions which offer permanent solutions to provide you with options for permanent and semi-permanent sign attachment.

Permanent Attachment Solutions

Enjoy the design freedom that over 30 years of flexible, easy-to-apply, proven technology brings. 3M™ VHB™ Tapes are designed for a variety of signage applications including stiffener and sign attachment.

The flexible foam tapes are capable of filling gaps to bond irregular surfaces and distributes stress uniformly over the bonded area. Depending on the specific tape, the result is a bond line that seals, cushions and dampens vibration. The bond will resist impact, withstand wide temperature ranges and provide good insulation qualities.

3M VHB Tapes

3M VHB Tapes provide high performance clean-line alternatives to traditional mechanical fastening systems. VHB Tapes construction offers flexibility, high strength bonds that seal against moisture, absorbs shock and provides long term UV and temperature resistance. Unlike mechanical fasteners such as rivets, VHB tapes distribute stress, allowing you to use thinner lighter weight material.

Surface Preparation

- Step 1** Clean with 3M™ hIPA Clean 300. For heavy oils, clean with 3M™ Adhesive Cleaner and Solvent 700
- Step 2** Lightly abrade with Scotch-Brite™ Hand Pad 7447 or 3M™ Roloc™ equivalent
- Step 3** Clean both surfaces with 3M™ hIPA Clean 300
- Step 4** Apply primer if required (Primer 94, AP111 or AP115)
- Step 5** Apply VHB tape to surface and apply pressure using a pressure roller



Semi-Permanent Bonding Solutions

3M Dual Lock Reclosable Fasteners provide an ideal solution for bonding interior panels. They enable the panels to be positioned into place, then 'snapped' together, due to the unique interlocking mushroom-shaped stems. This system can be readily opened and closed for easy signage or panel maintenance or replacement.

Dual Lock's tensile strength is greater, with 5 x more holding power than traditional Hook and Loop fasteners. The benefits of this hidden fastening attachment method include, fast and easy assembly and an expanded range of design options.

3M™ Dual Lock™ Reclosable Fasteners

3M thrives on defying conventional wisdom, like the concept that fasteners can both durably attach and be easily separated. When you utilise 3M Dual Lock Recloseable Fasteners, you get the permanency and strength of a screw with the ease and aesthetics of a hidden fastener. 3M Dual Lock Recloseable Fasteners are environmentally durable so it's YOU - not the ambient conditions - that decide when a sign comes down or a panel is detached. Available in both black and clear.

Dual Lock benefits include reduced vibration, temperature, moisture and UV resistance, easy of application and maintenance, and a strong pressure sensitive adhesive bond on contact.



3M Dual Lock Reclosable Fastener SJ3560

Features a clear acrylic adhesive on the back for high strength bonding of large signs. Bonds with metals (aluminium, stainless steel), glass and high surface energy plastics which include acrylic, polycarbonate and ABS. Engaged thickness 5.7mm. Allows for up to 1000 open/closures.

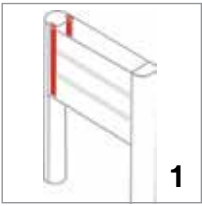


3M Dual Lock Low Profile Reclosable Fastener SJ4570

Amazingly thin, yet still a strong fastener. Provides an excellent bond to many substrates including painted surfaces, metal and plastics including polyethylene and polypropylene. Engaged thickness 2.7mm. Allows for up to 100 open/closures.



Attachment Applications



1. Post and Panel

Benefits

- Smooth sign face, free from distortion and spot weld marks
- Avoids stress points
- Flexible bonding allows for joining of dissimilar materials
- Assembly of large signs is made easier with VHB Tape

Considerations

- Temperature and weather conditions
- Is flexibility required



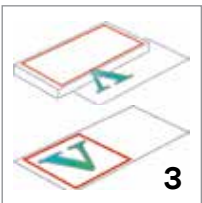
2. Mounted Letters

Benefits

- Ensures flush vandal resistant finish
- Invisible fixing and minimal surface damage
- Structural strength achievable on small areas

Considerations

- Substrates which you are bonding
- Environment and location of signage
- Required surface preparation
- Is this a permanent attachment



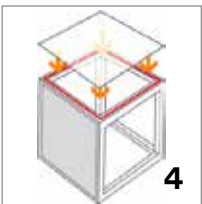
3. Light Box

Benefits

- Tapes seals and bonds in one operation
- Allows for thermal expansion
- Clean Attractive finish

Considerations

- Required Heat resistance
- Clarity of bonding products required where transparent materials are used
- Locations and weathering



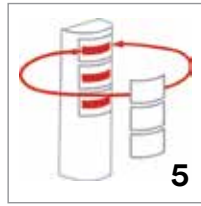
4. Box Signs

Benefits

- Flush and clean finish
- Speed and simplicity of assembly

Considerations

- Minimise galvanic corrosion between dissimilar metals
- Maintain rigidity and durability, particularly for external signage



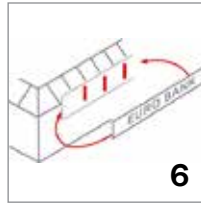
5. Pylons

Benefits

- No deterioration of sign face; improved appearance
- Allows for different rates of thermal expansion
- Faster and quieter production
- Bonds and seals in one step

Considerations

- Surface preparation required
- Thermal expansion rates



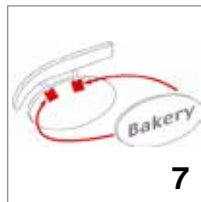
6. Facia's

Benefits

- Enhances Aesthetics
- Performance of 3M VHB tapes increases the durability of the sign
- Easy of application without mechanical attachment system

Considerations

- Substrate you are attaching the signage to



7. Shop Signs

Benefits

- Invisible fixing methods: No Mechanical fixing
- High Strength and durability

Considerations

- Design will affect the type of fastener used
- Location of signage

Product Use: All statements, technical information and recommendations contained in this document are based on tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose other than those already stated by 3M, and suitable for the user's method of application.



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