



3M™ VHB™ Tapes for Architectural Panel Applications

Expand your architectural design options and increase production efficiency with 3M™ VHB™ Tapes for architectural panel applications.

3M™ VHB™ Architectural Panel Tapes and 3M™ VHB™ Tape GPH-160 are high performance double-sided pressure sensitive acrylic foam tapes used in the fabrication of architectural panel systems, including aluminum composite material (ACM) panels and plate metal panels (aluminum and stainless steel). Stiffeners can be attached prior to liquid paint or powder coat processes involving a paint-bake cycle or post-paint. These tapes are a fast and easy-to-use permanent bonding method providing high strength and long-term durability since 1980.

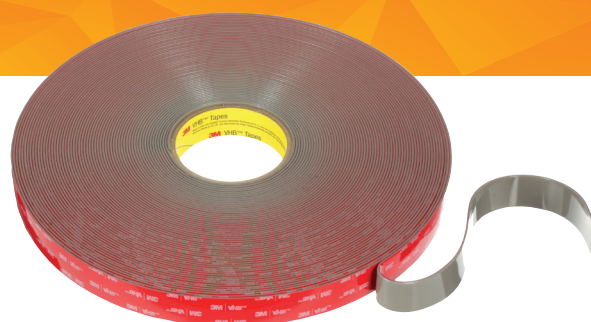
3M™ VHB™ Architectural Panel Tapes

Improved design flexibility and fabrication productivity.

3M™ VHB™ Architectural Panel Tapes are used for many applications in the construction industry, including the manufacture of architectural panels for curtain walls, exterior building cladding and interior panel and trim attachment. In many situations, 3M™ VHB™ Architectural Panel Tapes can replace liquid adhesives, sealants, welds and mechanical fasteners.

3M™ VHB™ Architectural Panel Tapes provide immediate handling strength during the fabrication process and do not shrink after curing, like with some liquid applied sealants. This shrinkage can result in isolated panel stress that may be visible on the exterior face of the architectural panel.

Sustainable Bonding Solution — 3M™ VHB™ Architectural Panel Tapes are GREENGUARD Gold Certified for low VOC emitting adhesives and qualify for LEED® credits in appropriate applications.



- **Simplified process**
Easy to apply bonding solution
- **Increased productivity**
Immediate handling strength reduces assembly and delivery time
- **Improved appearance**
Eliminates drilling, grinding, refinishing, screwing, welding and associated re-work
- **Less waste**
Typically, less than 2% waste factor



3M™ VHB™ Tapes are easy to apply to simplify the bonding/attachment process.

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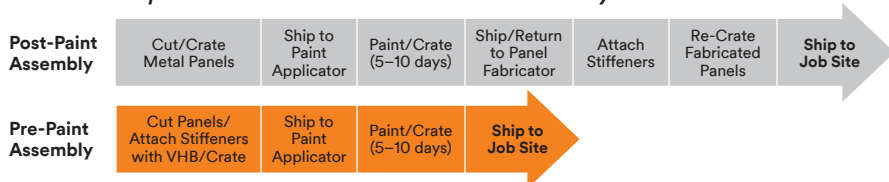
3M™ VHB™ Tape GPH-160GF

Solving the challenges of panel assembly prior to a paint-bake cycle.

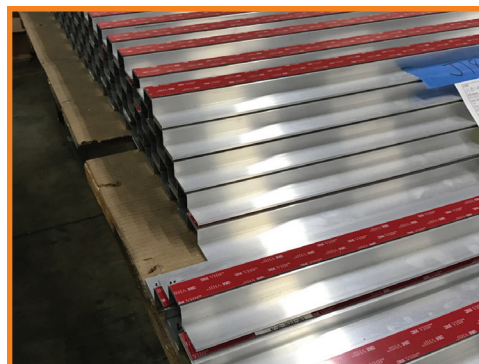
3M™ VHB™ Tape GPH-160GF is a 0.062 inch (1.6mm) thick gray double-sided acrylic foam tape with a red polyethylene film liner. With superior high temperature performance, it can be suitable for assembly prior to liquid paint or powder coat processes involving a paint bake cycle. It's an ideal solution for stiffeners applied to architectural metal panels.

3M™ VHB™ Tape GPH-160GF allows increased manufacturing efficiency through reduced touch points and streamlined processes. The elimination of unnecessary handling and transportation, frees-up time to take on additional projects and most importantly, allows panels to be delivered to the job site quicker.

Process Improvement from Pre-Paint Assembly



3M™ VHB™ Tape GPH-160GF is compatible with chemicals typically used in paint pre-treatment processes (spray and dip). Tests completed by a leading supplier of pre-treatment chemicals suggest that the tape does not cause premature degradation of chemical solutions. It is understood that paint pre-treatment processes may differ between systems and it may be advisable to conduct compatibility and/or degradation tests to confirm compatibility with your specific system.



3M™ VHB™ Tapes are fully cured allowing stiffeners to be pre-taped prior to assembly.



3M™ VHB™ Tape GPH-160 allows stiffeners to be bonded prior to a paint bake cycle.

Product Selection Guide

Application	Point of Assembly	Product*	Thickness inches (mm)	Color	Temperature Resistance	
					Short Term (minutes/hours)	Long Term (days/weeks)
Plate Aluminum and Steel Panels • stiffener attachment	Pre-Paint	3M™ VHB™ Tape GPH-160	0.062 (1.6)	Gray	450°F	300°F
ACM, Aluminum, Steel and Stainless Steel Panels • stiffener attachment • panel attachment • decorative trim	Post-Paint	3M™ VHB™ Architectural Panel Tape B11F	0.045 (1.1)	Black	300°F	200°F
		3M™ VHB™ Architectural Panel Tape G11F	0.045 (1.1)	Gray		
		3M™ VHB™ Architectural Panel Tape B16F	0.062 (1.6)	Black		
		3M™ VHB™ Architectural Panel Tape G16F	0.062 (1.6)	Gray		
		3M™ VHB™ Architectural Panel Tape B90F	0.090 (2.3)	Black		
		3M™ VHB™ Architectural Panel Tape G90F	0.090 (2.3)	Gray		
Interior Glass and Phenolic Panels • z-clip attachment • panel to frame attachment						

*Please refer to technical data page for typical physical and performance properties.

For more information about 3M™ VHB™ Tapes for architectural panel applications, visit 3M.com/VHB/architecturalpanel



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