



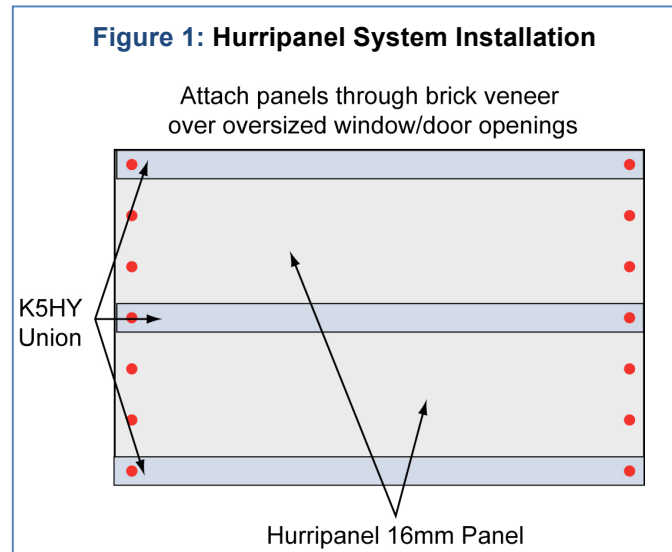
2128 Springwood • Carrollton, TX 75006  
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## Installation Instructions For Connecting Two Panels On Oversized Openings In Brick Veneer Buildings

To cover brick veneer oversized window/door openings (e.g., sliding glass doors, large windows), K5HY unions must be used to join two storm panels together.

### Installation for Connecting 2 Panels for Oversized Openings (For detail of the complete assembled system, see Figure 1.)

The PanelMate® anchors Through Veneer Anchoring System (TVAS) are available in stainless steel or carbon steel with Stalgard® corrosion resistant finish. They are either flush or protruding anchors. TVAS anchors are longer to pass through the veneer brick and fasten in the structural wall framing.



Note: TVAS requires pre-drilled pilot holes prior to installation.

1. To determine the width of the panels and the K5HY union, measure at several locations (horizontal) on the inside of the opening (brick to brick) to be covered. Add 8 inches to the largest width measurement (e.g., width 84"+8"=92") to accommodate the anchors. Measure the height (vertical) of the same opening in several places, divide the largest measurement by 2.
2. Cut 2 panels to the width and height as described in Item #1. Cut K5HY unions into 3 parts the same width.
3. **Union Installation – Bottom, Middle, Top:** Measure 1-1/2" - 2" from edge of brick opening and mark on the K5HY union. Drill a 3/8" hole centered on the union. Using a 1/4" tungsten carbide bit, drill a pilot hole thru the drilled K5HY union into the brick veneer on both sides (left and right) and into the structural member. Countersink flush anchors to approximately 3/4" depth using a 7/16" or 1/2" tungsten carbide drill bit. Install the TVAS anchor on both sides thru the brick veneer into the structural wall framing. Attach bottom union with stainless steel 1/4-20 x 1-1/2" bolt with 1-1/8" stainless steel washer to anchor. Place lower panel into bottom union. Place middle union on top of the panel. Attach K5HY middle union to anchor. Place upper panel into top of middle union. Place top union on top of upper panel. Measure height from inside unions (K5HY) to determine height of upper panel. Adjust upper panel location to ensure the edges are captured by both unions.
4. Attach unions to building with anchors. Bottom, middle and top unions are installed using 1/4-20 x 1-1/2" stainless steel bolts with 1-1/8" stainless steel bonded sealing washers.
5. Attach panels to the unions using 1/4-20 x 1-1/2" stainless steel screws with 1-1/8" stainless steel bonded sealing washers. Place 20" – 24" on center.
6. Panels joined by unions are required to have anchors above and below within 4" - 6" of the unions.
7. Distances between anchors are normally 10" - 12" on center, depending on state or local requirements.
8. Label upper and lower panels.
9. Install panels when required and remove after storm for storage.
10. See Figures 2 and 3 (on page 2 of this document) for Hurripanel Fasteners anchors and accessories.



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**Figure 2: Anchor Selection Guide for Attachment of Direct Mount Shutters**

Fastener	Application/ Building Material	Available Lengths	
		Carbon Steel With Stalgard Finish	18-8 Stainless Steel
<b>Protruding Anchors</b>			
PanelMate Pro	Concrete, block or wood structural framing including hardiplank and stucco finishes	2-1/4" to 5-1/2"	2-1/2" to 5-1/2"
PanelMate Pro TVAS	Through brick veneer to structural framing	7-3/8"	7-3/8"
<b>Non-Protruding (Countersunk) Anchors</b>			
PanelMate Female*	Concrete, block or wood structural framing including hardiplank and stucco finishes	2-5/8" – 5-1/2"	2-5/8" – 5-1/2"
PanelMate Female TVAS*	Through brick veneer to structural framing	7-3/8"	7-3/8"
PanelMate Inserts	Concrete, block or wood structural framing; stucco finishes	1-5/8" & 2-1/8"	Not Available

\*PanelMate Female anchors have an 18-8 stainless steel head assembled to a carbon steel fastener or a 18-8 stainless steel fastener.

**Figure 3: Accessories**

Panel Accessories	
<b>K5HY</b>	Union Connector
Anchoring Accessories	
<b>K1Y</b>	Plastic Plugs
<b>K2Y</b>	Wing Nut
<b>K3Y</b>	Protruding Plastic Cap
<b>K10BY</b>	Adjustable Wing Bolt Assembly
<b>KSSY1</b>	1-1/8" Stainless Steel Bonded Sealing Washer

Installation Tools	
<b>HFNY190 (female)</b>	5/16 Insert Driver
<b>HFNY156 (male)</b>	Modified 3/16" Drive Socket
<b>D6Y</b>	Tungsten Carbide Bit