### Tools & Materials You Will Need:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring Tape</td>
<td></td>
</tr>
<tr>
<td>Hammer</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td></td>
</tr>
<tr>
<td>Hacksaw</td>
<td></td>
</tr>
<tr>
<td>Pliers</td>
<td></td>
</tr>
<tr>
<td>Drill Bits</td>
<td>3/32&quot;, 1/8&quot;, 5/16&quot;</td>
</tr>
<tr>
<td>Power drill</td>
<td></td>
</tr>
<tr>
<td>Square</td>
<td></td>
</tr>
<tr>
<td>Stiff Utility Knife</td>
<td></td>
</tr>
<tr>
<td>Pencil</td>
<td></td>
</tr>
<tr>
<td>Soft Mallet</td>
<td></td>
</tr>
<tr>
<td>Phillips and flathead screwdrivers</td>
<td></td>
</tr>
<tr>
<td>Saw Horses</td>
<td></td>
</tr>
</tbody>
</table>

### Installation Screw Packs:

<table>
<thead>
<tr>
<th>Screw Pack</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 pk #6 x 1&quot; Phillips panhead screws</td>
<td>For exterior mounting of stop strip on header, hinge and latch side.</td>
</tr>
<tr>
<td>1 pk #8A x 1 1/4&quot; Phillips Flat head screws</td>
<td>For hinge side of piano hinge mounted onto jamb.</td>
</tr>
<tr>
<td>12 #6 x 1/2&quot; Phillips panhead screws - color matched</td>
<td>Ten for astragal and two for bottom expanders.</td>
</tr>
</tbody>
</table>

### REMEMBER: ALWAYS USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

Your Package Should Contain The Following Components:

Door slab with expander set, stop strip, flat bottom expander, vinyl sweeps and hardware kit shipped separately inside door carton.

**Special Note:**

This expander door system is primarily used for an inset (tunnel) opening and/or when a normal z-bar installation cannot be used.

Please note the handle projects to the inside of the door +2 1/8".

Make sure there is adequate clearance between prime entry door handle and expander storm door.
MEASURE & INSTALL

Step 1 - Lay doors flat down with exterior side down

Step 2 - Cut straps and remove glass and screen insert(s).

**Important!** You will receive the door with sash and screen mounted into door frame and secured with sash/screen clips mounted upsidedown (see illustration). Remove the mounted clips and lay aside, being careful not to lose the clips. There will be extra sash/screen clips with thumbscrews inside the hardware box to secure the sash/screen at each rivnut location. Due to shipping restrictions, minimal sash/screen clips are mounted onto the door in production line. See Step 6 on Page 7 for remounting the sash/screen clips appropriately.

Step 3 - Measure and record opening height. Subtract \( \frac{3}{8} \)" from height.

Step 4 - With the recorded measurements, verify with bar coded label on cardboard box and paperwork to make sure the size and order information is correct.

Step 5 - Using the reduced size from Step 3, measure and cut the hinge and latch expanders. Cut the hinge expander at the bottom, leaving the dual rivets at the top of the hinge.

*Note:* If a 2" brass or satin nickle bottom expander is being used instead of the standard flat expander, you will need to field notch on both the latch and hinge side expanders after the correct height has been determined—see Section 4.2.
Step 5 - With a level and a pencil, place the hinge expander in the opening. Plumb it and mark the inside edge. **Remember:** the inside portion of the hardware will project 2 \( \frac{3}{8} \)" from the surface of the storm door. Leave equal space at the top and bottom of the expander.

Step 6 - Secure the hinge side expander to the jamb opening using the mark as a guide. Secure the piano hinge flange using the countersunk holes and flat head #8 x 1 \( \frac{1}{4} \)" installation screws provided. Make sure the top installation screw is located no more than \( \frac{3}{4} \)" from top of hinge. Finish securing hinge side expander with remaining installation screws.

Step 7 - Insert door slab into previously installed hinge expander by using a block of wood and hammer or mallet. Tap the door into position leaving an equal amount of expander at the top and bottom. The latch edge of the door should be 1/2" or less from the latch side jamb.

Step 8 - While door is in the open position, install latch side expander over the edge of the door slab approximately \( \frac{1}{2} \)". Keep the longer flange side of expander to the outside of door (see illustration).
1 MEASURE & INSTALL

Step 8 - Adjust latch side expander by slightly tapping door expander toward center of slab until the expander just clears the jamb opening. If centering of the door slab between the vertical expanders is important for this job application, it should be done at this time.

2 SECURING EXPANDERS

Step 1 - Secure the hinge side vertical expander to door slab in four locations: top, bottom and two evenly spaced by using a 3/32" pilot hole and #6 x 1/2" pan head screws provided. The hinge side expander will have screws on both the interior and exterior surface. The top, bottom and latch side expanders will be secured only from the interior. DO NOT SECURE THE LATCH SIDE EXPANDER.

Step 2 - Measure the distance between the vertical expanders at the top and bottom of the door.

Cut the horizontal expanders to length. Tap into position and secure with screws provided.

IMPORTANT NOTE: MAKE SURE THE HORIZONTAL EXPANDERS DO NOT EXTEND BEYOND THE VERTICAL EXPANDERS.

Step 3 - Check placement of latch side expander and secure with screws.
3 INSTALLING STOP STRIP

Step 1 - Measure the opening width at the header. Take the short header stop and slide the weatherstripping back so that it is clear of cutting area and cut to length.

Pre-drill three \( \frac{1}{8} \)" holes: (1) in center and (2) 4" from each end of the stop. Close the door and check for alignment. Be careful not to bind the hinge. Place the stop in the opening against the door and secure with #6 x 1" screws (see illustration).

Step 2 - Measure the opening height from the head stop to the sill. Measure and cut the latch and hinge side stops.

Pre-drill (5) holes into each stop.

Step 3 - Install stops on latch and hinge side using #6 x 1" screws (see illustration).

4 INSTALLING BOTTOM SWEEP

Step 1 - Measure the overall width of door, including both vertical expanders. Cut bottom of single door sweep to size and secure on the interior (inside) of door slab (see illustration).
4  INSTALLING BOTTOM SWEEP

Step 2 - If a 2" brass or satin nickle expander is being used, you will need to field notch on both the latch and hinge side expanders after the correct height has been determined (see illustration).

5  INSTALLING HARDWARE KIT

Note: If the handleset is not flush with the expander extrusion and door slab, a shim is provided in the handleset box. The shim will need to be cut and trimmed to fit underneath the base of the handle. This will allow the handleset to sit flush with the door (see illustration below).

Step 1 - Before drilling for handleset, make sure the expander extrusion is properly positioned. Make certain the door slab is square in the opening using the expander extrusions.

Step 2 - Remove template from handleset box. The template will not fit properly without having to tear along the perforation. You will need to do the following steps:

1. Tear along dotted edges of one side

2. Tape one side to the outside of the door and the other two pieces (that are still attached) to the inside of the door (see illustration).

Step 3 - Drill through each side of template holes. Remove the template paper and proceed with handleset installation by following the manufacturer's instructions inside the handleset box.
**INStallINg hardware kIt**

**Step 4** - Install closer according to manufacturer’s instructions in the closer box. **DO NOT INSTALL CLOSER ABOVE A PET DOOR. DO NOT INSTALL A CLOSER ON A KICKPANEL.** See above illustrations for correct mounting locations.

**Step 5** - Adjust closer for the winter or summer setting by following the instructions from the manufacturer inside the closer box.
Step 1 - Re-insert glass or screen insert(s). Remount the sash/screen clips with the longest leg securing the sash/screen to frame of door. Additional sash/screen clips will be found inside the hardware box.

Step 2 - Close door and inspect for proper fit and lock up.