

# SLIDING PATIO DOORS

## PANEL INSTALLATION & REMOVAL INSTRUCTIONS

Lux Hybrid and Fir Clad Patio Doors can be very large and are therefore delivered to our customers in multiple pieces and require some assembly. The panels are shipped separately from the frame due to the weight of the overall product. When the patio door frames are installed at projects within our service area, our customers may schedule an appointment with a Lux Field Technician to have the panels installed on site.

***The following is a guide for Lux customers outside of our service area for installing the loose panels into the patio door frames themselves.***

*Fixed panels may have this label on the preserve film on the glass. The QR Code on the label leads to this document on the Lux Windows website.*



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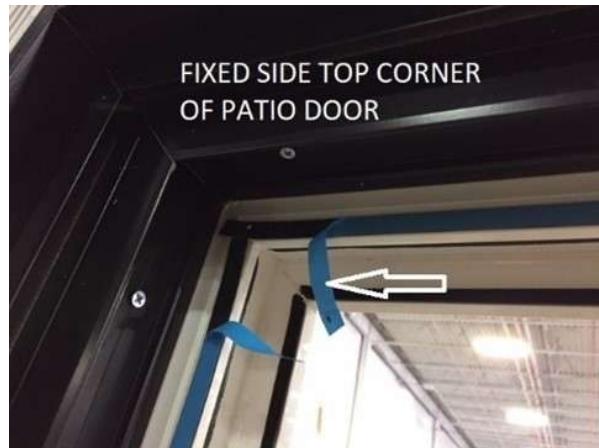
# HYBRID SLIDING PATIO DOORS 3200 SERIES

## Materials & Tools Required:

		
Silicone sealant	Expanding foam tape (Lux Part # SETPEFM3/8315)	Steel brackets 2 per fixed panel (Lux Part #HDHBPDB)
		 <b>#10 X 1/2" truss head screws</b> Quantity varies by panel height. (Lux Part #FSSCPH10X1/2)
	<b>Other parts shipped loose:</b> <ul style="list-style-type: none"><li>• Vinyl Interlocks</li><li>• Metal Interlock Cladding</li><li>• Aluminum sill threshold</li><li>• Bumpers and bumper brackets</li></ul>	<b>Recommended Tools:</b> <ul style="list-style-type: none"><li>• Rubber mallet</li><li>• #2 Robertson screwdriver</li><li>• Philips screwdriver</li><li>• Flat head screwdriver</li><li>• Shims</li><li>• Pencil</li></ul>

## Fixed (Inactive) Panel Installation:

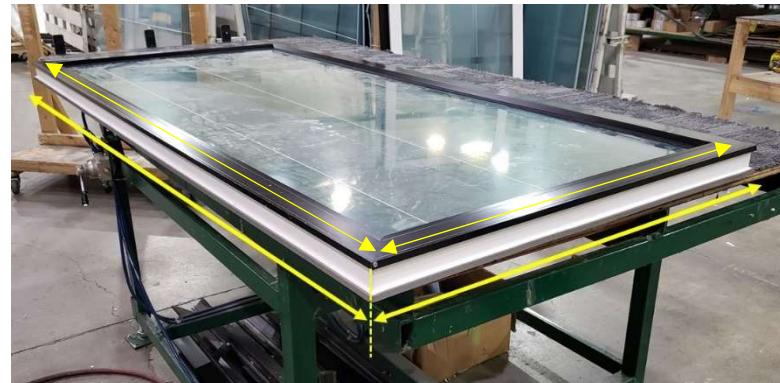
1. Remove all transportation wrapping/protection from panel, including the blue film applied to metal cladding.
2. Clean the panel as required.
3. Prepare the frame for the installation of the fixed panel.
  - 3.1. Ensure pre-applied glazing tape along the sill, fixed jamb and head is not damaged and that the protective film is 100% intact and fully covers the tape surfaces.
  - 3.2. Fold the corners of the protective film over ('dog-ear') at the sill/head & jamb corners.



3.3. Daub each tape joint/end with silicone sealant (Tremco S500).



4. Prepare the fixed panel by applying expanding foam tape (ExoAir Impregnated Pre-Compressed Tape) to the vinyl and metal edge on the top and the side of the panel.



5. Take hold of the fixed panel and insert the top of the panel into the fixed side head of the door, and then rotate it into place onto the sill support.



6. Push the fixed panel horizontally into the fixed frame jamb until it bottoms out. We recommend using a spreader clamp (located between the fixed panel and lock jamb) to ensure the fixed panel is pushed and held tight to the fixed frame jamb. Again, ensure the glazing tape protective film ends are exposed and accessible.
7. Install the supplied steel brackets to the head and sill ends of the fixed panel using 4 – flat head low root 4.2 x 16 PVC screws (Lux Part #FS.SC.4.2X16).



8. Fasten the steel brackets to the head and sill using 2 - M4x16 screws (Lux Part #FS.SC.TEK.M4x16) per bracket.



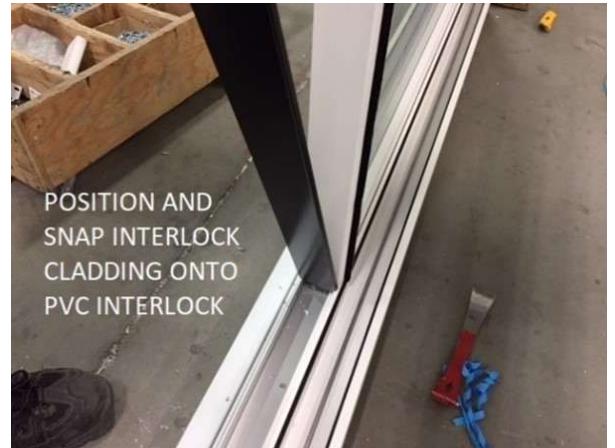
9. Carefully remove the glazing tape protective film and then, from the exterior of the door, press the sealed unit onto the glazing tape.



10. Install the supplied PVC interlock. Position it against the side of the fixed panel and then carefully snap the profile onto the panel using a rubber mallet.



11. Next, take the interlock cladding and place it against the PVC interlock profile. This piece is also snap-fit onto the PVC interlock profile using a rubber mallet.



12. Secure the PVC interlock profile using #10 X 1/2" truss head screws (Lux Part #FS.SC.PH.10X1/2) spaced 8" to 10" apart.



13. Carefully place and then snap the aluminum sill threshold onto the sill between the operating jamb and the fixed panel interlock. Start by angling the part into the operating jamb end corner and then lower the part onto the sill. Take extra care not to scratch the fixed interlock cladding in the process.



14. Secure the pre-applied bumper brackets mounted on the interior of the fixed jamb to the face of the panel using (2) M4x16 screws (Lux Part #FS.SC.TEK.M4x16) per bracket. The holes are predrilled in the panel face.



15. Slide the bumper(s) onto the bracket.



## Operating Panel Installation:

1. Remove all transportation wrapping/protection from panel.
2. Clean panel as required.
3. Remove the roller access hole caps from each end at the bottom of the panel and using a #2 Robertson screwdriver adjust the rollers (turn counterclockwise) to their minimum height position.
4. The panel can now be inserted into the frame.
  - 4.1. Lift the panel and tilt it so that the top of the panel slips into the head of the patio door (Photo 1).
  - 4.2. Once the panel has been inserted into the head track, move the bottom of the panel into position over the frame sill track and lower onto the track (Photo 2).



Photo 2



Photo 1

5. Push the panel over enough that both roller access holes can be reached with a Philips screwdriver.
6. Adjust the rollers so that the panel is supported by the rollers and the panel can move freely. Lifting the panel (a pry bar helps to support the panel) during this process allows for easier roller height adjustment.
7. Adjust the rollers until the panel is level and in-line with the interlock and patio door lock jamb. Check operation and if required make further adjustments to the rollers. Replace access caps.



## Install Keeper (Single Patio Doors ONLY)

Use this simple method to install the keeper into the jamb channel of the patio door frame. This step is not required on bi-parting patio doors, as the keeper is already installed on the active panel.

	<p><b>1.</b> Hold the keeper against the lock and while depressing the safety pin, engage the latches to hold the keeper in place</p>	
<b>2.</b>	<p>Center the keeper on the lock plate and using a pencil, mark the top location of the keeper on the panel.</p>	
<b>3.</b>	<p>Close the door and transfer the pencil mark position to the frame edge.</p>	

	<p>4. Open the door and once more transfer the pencil mark position to the jamb channel.</p>	
<p>5.</p>	<p>Remove the keeper from the panel and place it so that the top of the keeper is in line with the pencil mark in the jamb channel.</p>	
<p>6.</p>	<p>Use the supplied #10 x 4" flat head screws to mount the keeper. A groove in the channel marks the location for the screws.</p>	<p><b>NOTE: Make sure to shim the area between the keeper location and the rough opening.</b></p>
<p>7.</p>	<p>Close the door panel and check for play between the keeper and the lock.</p>	
<p>8.</p>	<p>Using a flat head screwdriver, adjust the lock latches until they catch the keeper and provide minimal panel movement play when locked.</p>	
<p>9.</p>	<p>If the keeper is not properly aligned with the lock latches, loosen the screws that fasten the keeper to the jamb slightly, and align with the latches as required. Re-tighten the screws.</p>	

*Check the full operation of the patio door.*

## FIR CLAD SLIDING PATIO DOORS 3600 SERIES

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The process for Fir Clad Sliding Patio Door panels is the same as the Hybrid process using different materials. Refer to the previous section for more details.

### Materials & Tools Required:

Fir Clad Patio Doors are sent with the same supplies as the Hybrid Patio Doors plus these flat head screws for fastening the interlock to the panels.

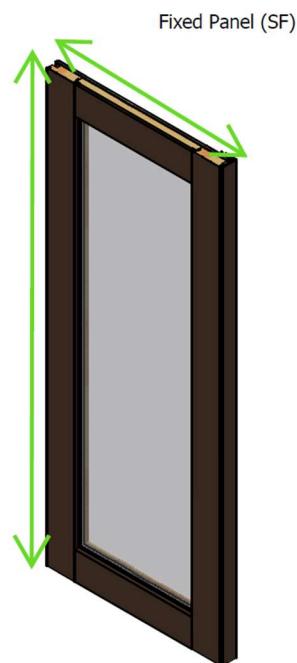


FS.SC.FH.8x1 -3/4

### Fixed (Inactive) Panel Installation:

1. Remove all transportation wrapping/protection from panel, including the blue film applied to metal cladding.
2. Clean the panel as required.
3. Prepare the frame for the installation of the fixed panel.
  - 3.1. Ensure pre-applied glazing tape along the sill, fixed jamb and head is not damaged and that the protective film is 100% intact and fully covers the tape surfaces.
  - 3.2. Fold the corners of the protective film over ('dog-ear') at the sill/head & jamb corners.
  - 3.3. Daub each tape joint/end with silicone sealant.

4. Prepare the fixed panel by applying expanding foam tape to the **WOOD** and **METAL** edge on the **TOP** and the **SIDE** of the panel. The tape is applied to the full length of head and sill, about  $3/16"$  from the interior face.



5. Take hold of the fixed panel and insert the top of the panel into the fixed side head of the door, and then rotate it into place onto the sill support.
6. Push the fixed panel horizontally into the fixed frame jamb until it bottoms out. We recommend using a spreader clamp (located between the fixed panel and lock jamb) to ensure the fixed panel is pushed and held tight to the fixed frame jamb. Again, ensure the glazing tape protective film ends are exposed and accessible.
7. Install the supplied steel brackets to the head and sill ends of the fixed panel using (4) flat head low root 4.2 x 16 PVC screws per bracket.
8. Fasten the steel brackets to the head and sill using (2) M4x16 screws per bracket.
9. Carefully remove the glazing tape protective film and then, from the exterior of the door, press the sealed unit onto the glazing tape.

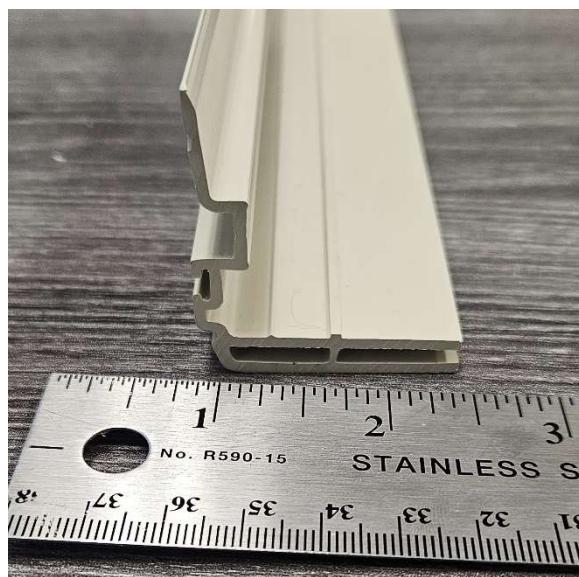
10. Install the supplied modified interlock.

10.1. **2 1/4" Standard Panel:** Position the hybrid interlock profile (pictured below) against the side of the fixed panel and then use the supplied flat head 8x1-3/4 screws (FS.SC.FH.8x1-3/4) to secure it to the predrilled steel plate.



Modified Hybrid Interlock profile used for fixed panels on 2.25" Fir Clad Sliding Patio Doors.

10.2. **2 1/4" Narrow Panel.** Position the hybrid interlock profile (pictured below) against the side of the fixed panel and then use the supplied flat head 8x1-3/4 screws (FS.SC.FH.8x1-3/4) to secure it to the predrilled steel plate.



Modified Hybrid Interlock profile used for fixed panels on 2.25" Fir Clad Sliding Patio Door **NARROW**.

11. Place the interlock cladding against the hybrid interlock profile. Carefully snap the cladding onto the interlock using a rubber mallet.
12. Secure the hybrid interlock profile to the face of the panel using #10 X 1/2" truss head screws (Lux Part #FS.SC.PH.10X1/2) spaced 8" to 10" apart.
13. Carefully place and then snap the aluminum sill threshold onto the sill between the operating jamb and the fixed panel interlock. Start by angling the part into the operating jamb end corner and then lower the part onto the sill. Take extra care not to scratch the fixed interlock cladding in the process.
14. Secure the pre-applied bumper brackets mounted on the interior of the fixed jamb to the panel face using (2) M4x16 screws per bracket. The holes are predrilled in the panel face. Slide the bumper(s) onto the bracket.

### Operating Panel Installation:

1. Remove all transportation wrapping/protection from panel.
2. Clean panel as required.
3. Remove the roller access hole caps from each end at the bottom of the panel and using a #2 Robertson screwdriver adjust the rollers (turn counterclockwise) to their minimum height position.
4. The panel can now be inserted into the frame.
  - 4.1. Lift the panel and tilt it so that the top of the panel slips into the head of the patio door.
  - 4.2. Once the panel has been inserted into the head track, move the bottom of the panel into position over the frame sill track and lower onto the track.
5. Push the panel over enough that both roller access holes can be reached with a Philips screwdriver.
6. Adjust the rollers so that the panel is supported by the rollers and the panel can move freely. Lifting the panel (a pry bar helps to support the panel) during this process allows for easier roller height adjustment.
7. Adjust the rollers until the panel is level and in-line with the interlock and patio door lock jamb. Check operation and if required make further adjustments to the rollers. Replace access caps.

END