



SIERRA PACIFIC WINDOWS

WOOD WINDOW AND DOORS INSTALLATION INSTRUCTIONS



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WOOD WINDOW AND DOOR INSTALLATION INSTRUCTIONS

Table of Contents

Wood Casement & Awning Window	1
Wood Carmel Double Hung Window	10
Wood Direct Glaze Window	20
Wood Bay and Bow Window	27
Wood Patio Slider Door	30
Wood Inswing & Outswing Door	40
General Finishing Instructions	46
Disclaimer	47
Contact Information	48
Warranty	49
Product Reference Information	55



Wood Casement & Awning Window Installation Instructions

Please read installation instructions carefully before starting.

These instructions include installation information for wood casement and awning windows.

Installation of unit:

1. Check rough opening to insure that opening is level, plumb and square. Verify that width and height dimensions are correct. Rough opening should be $\frac{3}{4}$ " wider than overall frame width and $\frac{3}{4}$ " greater than overall frame height. Sill plate should be flat and level. Make sure opening, is dry, clean and free of dirt and debris.

NOTE: Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

NOTE: Flashing material is recommended to be at least 9" wide.

CAUTION: Any variance from this installation procedure signifies that proper waterproofing becomes the responsibility of the design professional and/or the installer.

Sill flashing and sealing:

2. An overview of the proper flashing sequence is shown in Figure 1.

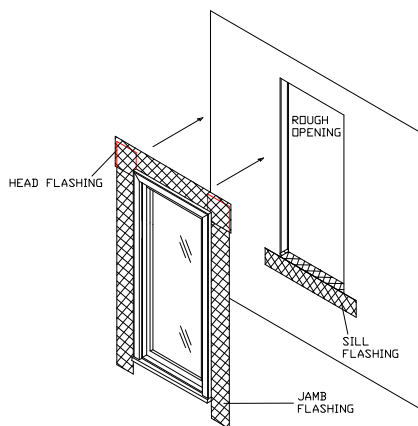


Figure 1

3. Begin flashing of the rough opening (RO) by applying flashing material along the exterior edge of the sill plate (see Figure 2). Make sure that the flashing extends 8-1/2 inches beyond both sides of the RO (see Figure 3).



Figure 2



Figure 3

4. Next, apply another length of flashing that will cover the sill plate. Cut to length a piece that is two inches wider than the opening and apply as shown (see Figure 4). Overlap this flashing (in weatherboard fashion) approximately one inch onto the previously applied flashing.



Figure 4

5. Carefully cut the flashing to fit the opening using the rough stud as a guide (see Figure 5).



Figure 5

6. Fold the middle section of the flashing onto the sill plate. Keep as smooth and wrinkle free as possible (see Figure 6).



Figure 6

7. Cut two small pieces of flashing to fit into the corners of the rough opening. Each piece should extend the width of the rough stud and approximately one inch up the side (see Figures 7, 8 and 9). Check sill for level.



Figure 7



Figure 8



Figure 9

8. Next, pre-drill 1/8" holes through the brickmould to prepare for installing the window into the rough opening. This will prevent the brickmould from splitting. Start the holes approx. 2 – 3 inches from each corner and then 12 – 16 inches on center thereafter.

9. Next, apply a continuous 1/2" bead of polyurethane along the head and both side jambs of the rough opening (see Figure 10). Do not apply sealant along the front edge of the sill.

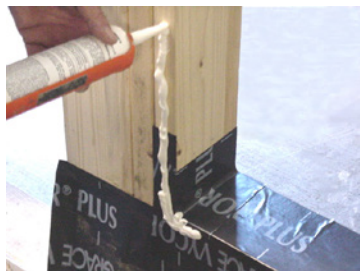


Figure 10

10. Apply two 1/2" beads of polyurethane sealant along the width of the sill plate for the window sill to set on (see Figure 11). The first bead should be discontinuous, located 1/4" from the exterior edge of the rough opening. The second bead should be continuous, located 4" from the exterior edge of the rough opening. The sealant and flexible self-adhesive backed flashing will effectively function as a sill pan. A rigid sill pan is also acceptable. The

installation details for a rigid sill pan application are noted in the sections covering door installations.

11. Prior to setting the window into the opening, place 1/4" non-compressible, plastic shims onto the sill plate as shown. Space the shims 1" to 2" from each end and then approximately 12 inches thereafter.

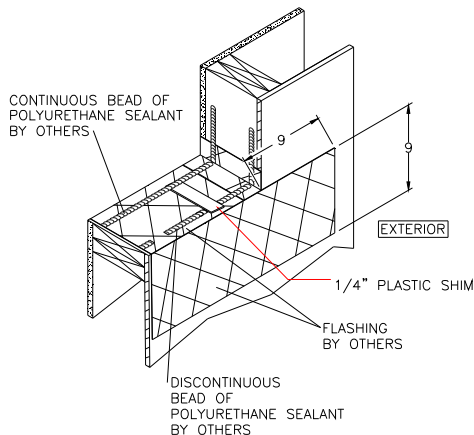


Figure 11

NOTE: Wood exterior windows are shipped with self-adhesive backed flashing attached to the top and both sides of the frame.

12. Insert and center the window in the rough opening (see Figures 12 and 13). When doing so, tilt the window back so that the sill can be set into the opening and onto the sealant. Take care not to scrape sealant off the sill plate.

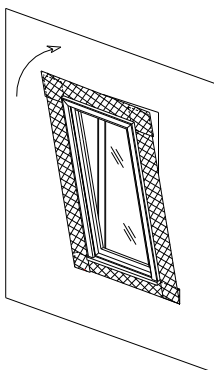


Figure 12



Figure 13

CAUTION: Lift and position windows with care. Some windows or window mullion assemblies are very heavy. Please use two or more people to handle heavy windows.

13. With the window set into the rough opening, check to make sure it is centered. Tack the window in place with one 1-1/2" stainless steel screw (or equivalent) in the side brickmould within 2" – 3" of each corner (see Figure 14).



Figure 14

Check for squaring and alignment:

1. Make sure that the window is set straight, flat and level. Use a tape measure to measure the diagonal dimensions of the frame to ensure that the frame is square. Diagonal measures should be within 1/8". Also, check frame width across top, middle and bottom (see Figures 15 and 16). Width measures should be within 1/16".

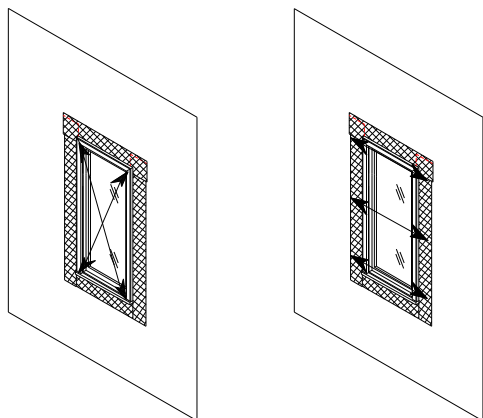


Figure 15



Figure 16

2. This measurement should be double-checked by using a framing square. Shim at the top of the side jambs as required. Use a level or straight edge to verify that the jambs and sill are straight (see Figures 17-20).



Figure 17



Figure 18



Figure 19



Figure 20

3. Unlock window and use crank operator to open window and verify that it opens smoothly and correctly (see Figure 21).



Figure 21

Securing the window and final flashing:

- 1. With the window straight, square and level, finish securing in place. Secure the brickmould to the sheathing, beginning 2 – 3 inches from the corners and 12 – 16 inches thereafter.
- 2. Place a small amount of polyurethane over the head of each screw.
- 3. Once the window has been set into the opening, extend the continuous sealant bead applied to the sill plate up the gap between the window side frame jambs and the rough studs (see Figures 22 and 23). Apply the sealant 6 inches up the gap. Use backer rod as necessary. Repeat for the opposite side.

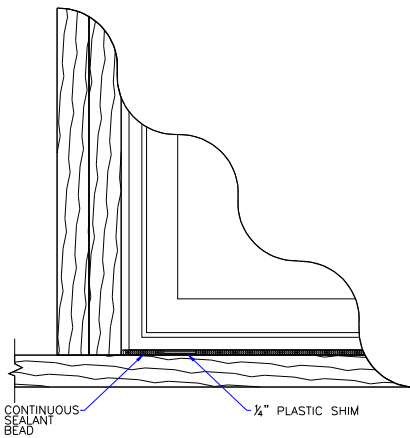


Figure 22

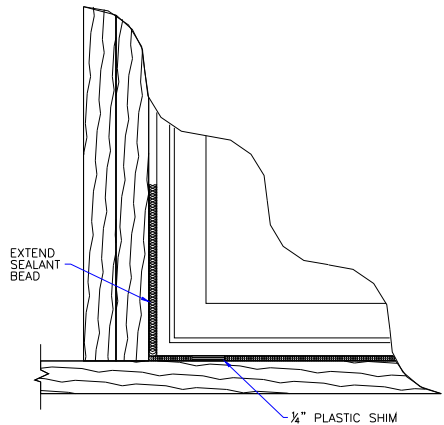


Figure 23

- 4. Unfold the jamb flashings. Note that one side of each flashing is already attached to the window frame. The top of the side jamb flashing extends well above the top of the window frame but just below the top edge of the head flashing. Verify that the ends of the head flashing extend just beyond the edge of the side jamb flashing (see Figure 24).

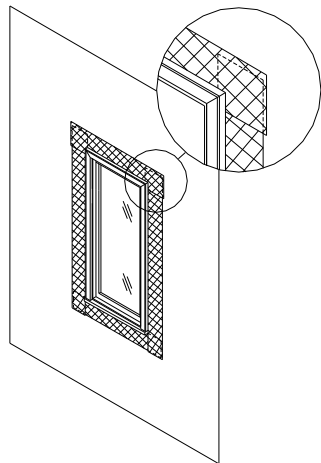


Figure 24

5. Extend the bottom of the side jamb flashing to overlap the sill flashing. Verify that the bottom of the side jamb flashing completely covers the end of the sill flashing (see Figure 25).

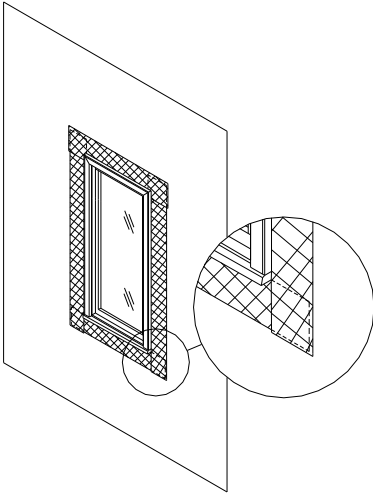


Figure 25

6. Peel the paper backing from the self-adhesive backed side jamb flashing and press into place. Press evenly and flatten to minimize any wrinkling. Repeat for the other side (see Figure 26).



Figure 26

7. Peel the backing from the self-adhesive backed head flashing and press into place. Press evenly to minimize any wrinkling.

8. Complete installation by applying sealant around the perimeter of the unit after the exterior wall finish has been applied.

Applying the operator cover:

Observe the backside of the Encore style rotary operator cover. Note the built-in clips at each end of the cover (see Figure 27). Orient the cover as shown in Figure 28. Press the cover onto the base so that it snaps in place at each end. Next, attach the folding handle and tighten the set screw to anchor in place (see Figure 29). The handle folds neatly into the cover nest when not in use (see Figure 30).



Figure 27



Figure 28



Figure 29



Figure 30

Applying the Aspen escutcheon cover and handle:

The Aspen window utilizes a unique hidden lock system. The locking mechanism for an Aspen casement or awning window is located beneath the rotary operator.

A nylon construction lock handle is provided with each window to prevent the finished metal handle from becoming damaged during manufacture and installation. To lock or unlock the window, rotate the lock handle to the opposite side of the lock base.

For convenience, a hole in the tip of the handle allows it to be used in place of a rotary operator handle to open or close the window. Insert the hole over the spline on the operator and rotate.

The lock handle inserts into the fork at the front of the lock base (see Figure 31).

Press the handle into the fork until it snaps into place. Handle can be removed by grasping firmly and pulling straight out. Make sure handle and fork are oriented as shown in Figure 31. Rotate the handle fully to the left or right to lock or unlock the window (see Figure 32). When moving the handle into the locked position, the handle will snap into place.

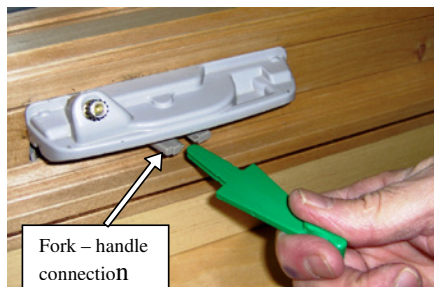


Figure 31

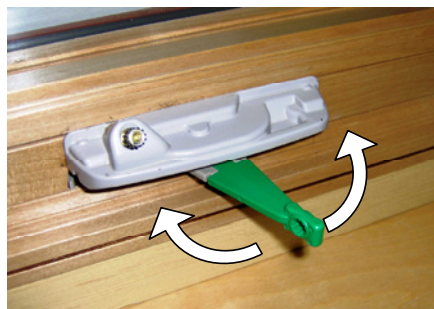


Figure 32

To install the finish hardware, first remove the construction handle. Align the lock escutcheon plate as shown (see Figure 33) with the radius face up. Note that the fork fits through the slot in the escutcheon. Gently press the escutcheon plate into the lock base until it snaps into place. Insert the metal finish handle into the fork in same fashion as construction handle (see Figure 34). Note the tip of the handle bends to one side (see Figure

35). This provides visual verification of the locked or unlocked position.

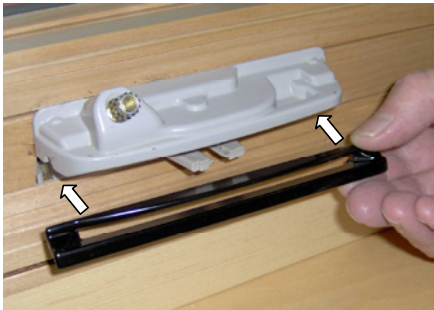


Figure 33

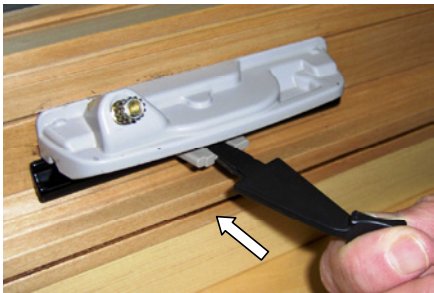


Figure 34



Figure 35

In the locked position, the handle tip will appear to lay flat against the window sill. In the unlocked position, the tip bends away from the window sill (see Figure 36). Left hand window operation is shown. Right hand window lock handle positions will be opposite.

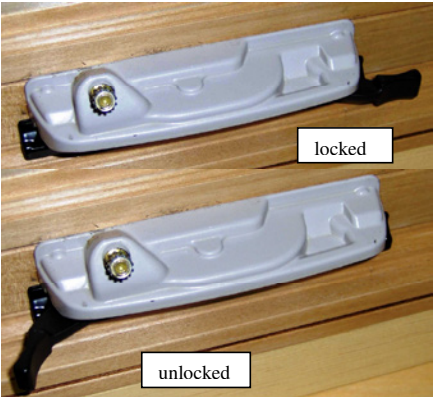


Figure 36

The application of the finish cover and handle for the rotary operator are shown previously in this section.



Wood Carmel Double Hung Window Installation Instructions

Please read installation instructions carefully before starting.

These instructions include install information for Carmel double hung, single hung and double hung picture windows.

Installation of unit:

1. Check rough opening to insure that opening is level, plumb and square. Verify that width and height dimensions are correct. Rough opening should be $\frac{3}{4}$ " wider than overall frame width and $\frac{3}{4}$ " greater than overall frame height. Sill plate should be flat and level. Make sure opening, is dry, clean and free of dirt and debris.

NOTE: Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

NOTE: Flashing material is recommended to be at least 9" wide.

CAUTION: Any variance from this installation procedure signifies that proper waterproofing becomes the responsibility of the design professional and/or the installer.

Sill flashing and sealing:

2. An overview of the proper flashing sequence is shown in Figure 1.

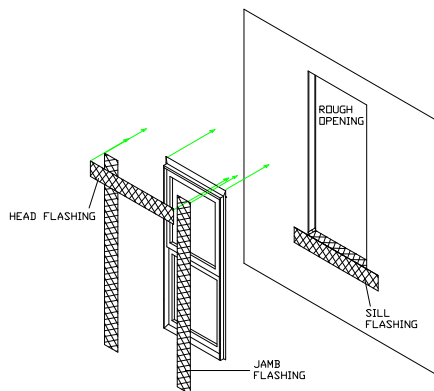


Figure 1

3. Begin flashing of the rough opening (RO) by applying flashing material along the exterior edge of the sill plate (see Figure 2). Make sure that the flashing extends 8-1/2 inches beyond both sides of the RO (see Figure 3).



Figure 2



Figure 3

4. Next, apply another length of flashing that will cover the sill plate. Cut to length a piece that is two inches wider than the opening and apply as shown (see Figure 4).



Figure 4

5. Carefully cut the flashing to fit the opening using the rough stud as a guide (see Figure 5).



Figure 5

6. Fold the middle section of the flashing onto the sill plate. Keep as smooth and wrinkle free as possible (see Figure 6).



Figure 6

7. Cut two small pieces of flashing to fit into the corners of the rough opening. Each piece should extend the width of the rough stud and approximately one inch up the side (see Figures 7, 8 and 9).



Figure 7



Figure 8



Figure 9

8. Next, pre-drill 1/8" holes through the brickmould and nailing flange to prepare for installing the window into the rough opening (see Figure 10). Start the holes approximately 4 inches from each corner and then 12 – 16 inches on center thereafter.



Figure 10

9. Next, apply a continuous 1/2" bead of polyurethane sealant along the head and both side jambs of the rough opening (see Figure 11). Do not apply sealant along the front edge of the sill.



Figure 11

10. Apply two 1/2" beads of polyurethane sealant along the width of the sill plate for the window sill to set on (see Figure 12). The first bead should be discontinuous, located 1/4" from the exterior edge of the rough opening. The second bead should be continuous, located 4" from the exterior edge of the rough opening. The sealant and flexible self-adhesive backed flashing will effectively function as a sill pan. A rigid sill pan is also acceptable. The installation details for this type of application are noted in the sections covering door installations.

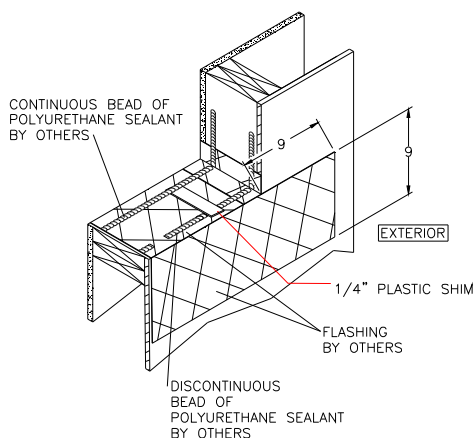


Figure 12

11. Prior to setting the window into the opening, place ¼” non-compressible, plastic shims onto the sill plate as shown. Space the shims 1 to 2 inches from each end and then approximately 12 inches thereafter.

NOTE: Wood exterior windows are shipped with self-adhesive backed flashing attached to the top and both sides of the frame.

12. Insert and center the window in the rough opening (see Figure 13). When doing so, tilt the window back so that the sill can be set into the opening and onto the sealant. Take care not to scrape sealant off the sill plate.

CAUTION: Lift and position windows with care. Some windows or window mullion assemblies are very heavy. Please use two or more people to handle heavy windows.



Figure 13

13. With the window set into the rough opening, check to make sure it is centered. Tack the window in place with one 1-1/2” stainless steel screw, or equivalent,

approximately 4” from the corner, using the predrilled holes in the brickmould. (see Figure 14).



Figure 14

Check for squaring and alignment:

Make sure that the window is set straight, flat and level. Use a tape measure to measure the diagonal dimensions of the frame to ensure that the frame is square. Diagonal measures should be within 1/8” (see Figures 15 and 16).

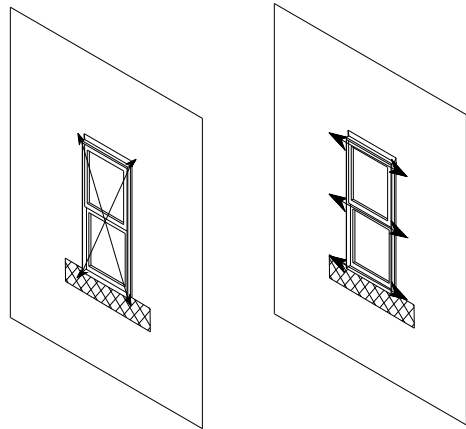


Figure 15



Figure 16

This measurement should be double-checked by using a framing square. Shim at the top of the side jambs as required. Use a level or straight edge to verify that the jambs and sill are straight (see Figure 17). Also, check frame width across top, middle and bottom. Width measures should be within 1/16"



Figure 17

If installing a picture window, proceed to "*Securing the window and final flashing*".

Jamb jack set-up and adjustment:

1. Prior to securing the window into the opening, the jamb jacks (supplied, one per side jamb) must be applied and adjusted (see Figures 18 and 19).

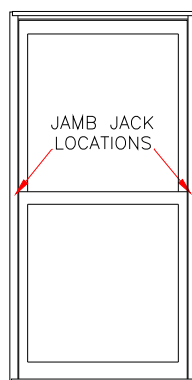


Figure 18

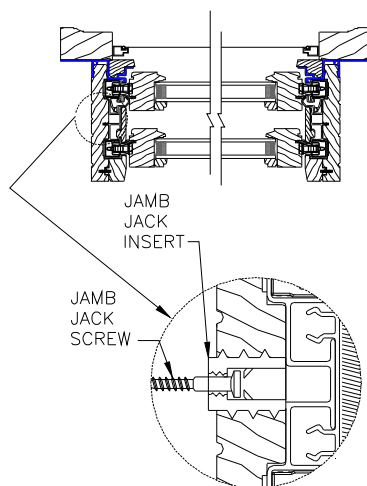


Figure 19

To begin this procedure, the sashes must be removed from the frame. Refer to the section "*Removing the sash*".

2. With the sash removed, remove the dust plug in the middle of the jamb (see Figure 20). Pry off the plug gently with a screwdriver or putty knife, exposing a hole in the jamb liner and the jamb jack insert. Using a 1/8" drill bit, pre-drill through the insert and into the rough stud.



Figure 20

3. Next, insert the T25 torx drive screw into the jamb jack insert and through to the rough stud (see Figure 21).



Figure 21

Make sure that the screw is seated. Repeat for other side jamb. Turn each screw until the side jambs are adjusted straight and parallel (see Figure 22).



Figure 22

Verify with a level or straight edge (see Figure 23).



Figure 23

4. Once the jamb jacks are properly adjusted, replace the dust plug and then replace the sash. Refer to the section “*Replacing the sash*”.

Note: For mullion assemblies consisting of two or more windows in width, jamb jacks will only be used in the outermost jambs (those being anchored to the rough framing). Do not attempt to insert jamb jacks between adjoining window frames.

Securing the window and final flashing:

1. With the window straight, square and level, finish securing in place. Secure the window by screwing through the brickmould/ nailing flange to the sheathing, beginning approximately 4” from the corner and 12”-16” thereafter.

2. Place a small amount of polyurethane over the head of each screw.

3. Once the window has been set into the opening, extend the continuous sealant bead applied to the sill plate up the gap between the window side frame jambs and the rough studs (see Figures 24 and 25). Apply the sealant 6 inches

up the gap. Use backer rod as necessary. Repeat for the opposite side.

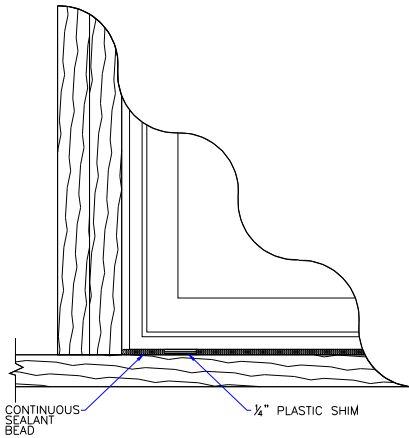


Figure 24

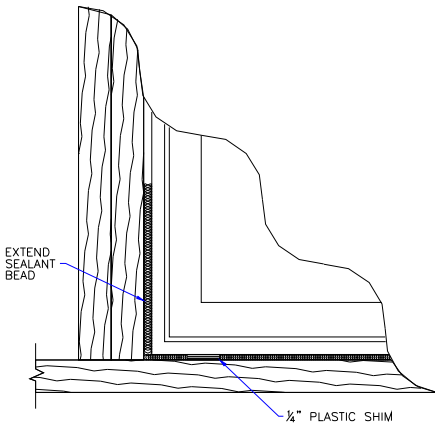


Figure 25

4. Unfold the jamb flashings. Note that one side of each flashing is already attached to the window frame. The top of the side jamb flashing extends well above the top of the window frame but just below the top edge of the head flashing. Verify that the ends of the head flashing

extend just beyond the edge of the side jamb flashing (see Figure 26).

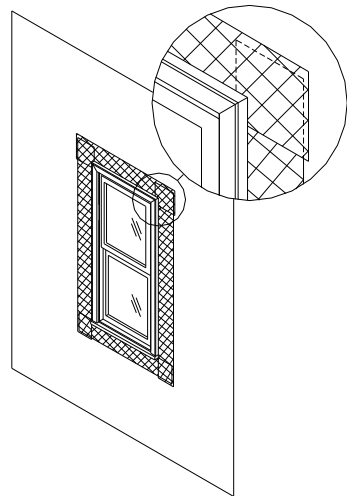


Figure 26

5. Extend the bottom of the side jamb flashing to overlap the sill flashing. Verify that the bottom of the side jamb flashing completely covers the end of the sill flashing (see Figure 27).

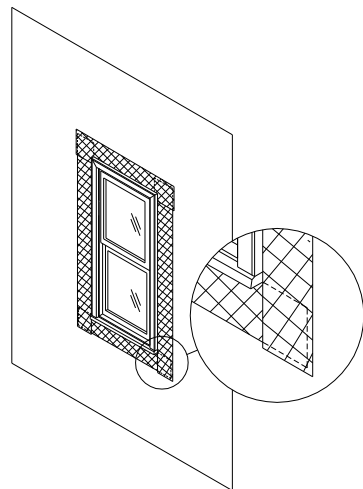


Figure 27

6. Peel the paper backing from the self-adhesive backed side jamb flashing and press into place. Press evenly and flatten to minimize any wrinkling. Repeat for the other side (see Figure 28).



Figure 28

5. Peel the backing from the self-adhesive backed head flashing and press into place. Press evenly to minimize any wrinkling.

6. Complete installation by applying sealant around the perimeter of the unit after the exterior wall finish has been applied.

If installing a picture window, proceed to “General finishing instructions”.

Sash lift placement:

1. To install the sash lift, locate the marked placement indentation at the center of the bottom rail (see Figure 29). Attach the lift as shown using the two #8x1” screws provided.

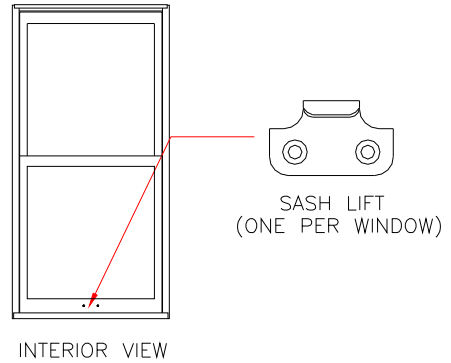


Figure 29

Removing the sash:

1. Begin by unlocking the window. Slide the bottom sash up approximately 4 to 5 inches. Next, locate the tilt latches at the ends of the checkrail on the bottom sash. Simultaneously slide the tab on each tilt latch towards the center of the window and hold them (see Figure 30). This releases the latches from the jamb liner. Tilt the upper portion of the sash to the interior side of the window.



Figure 30

2. Note the location of the jamb liner/ balance assembly track and the clutches in the side jambs (see Figure 31). Also, note the pivot pin and how it engages the clutch (see Figures 32 and 33).



Figure 31

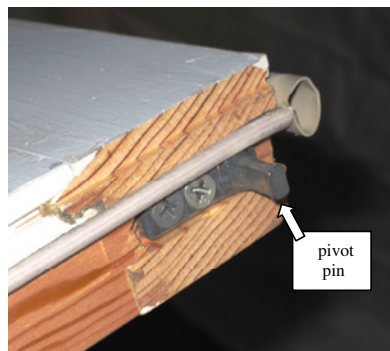


Figure 32

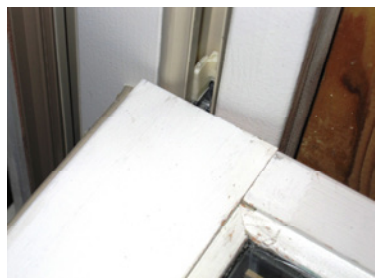


Figure 33

3. The sash is now connected to the jamb liner by the two bottom corners. With the sash at a 90° angle to the window frame, lift one bottom corner up and out of the clutch and jamb liner while holding the opposite corner in place (see Figure 34). This will disengage the pivot pin (at bottom corner of the sash) from the clutch of the jamb liner/ balance assembly.

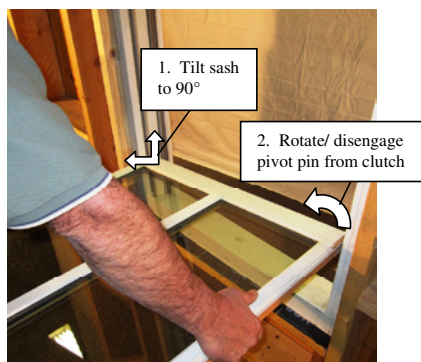


Figure 34

4. Once one bottom corner is released, lift the other side out and remove the sash. The upper sash can now be slid down a few inches and removed from the frame in the same manner.

Replacing the sash:

1. Essentially, reverse the sash removal procedure. Start with the top sash. Remember to start with the sash perpendicular (90°) to the frame. Make sure to place the top sash in the jamb liner/ balance assembly track located at the exterior side of the window. While inserting the pivot pins into the jamb liner/ balance assembly track, make sure that the pins are inserted above each clutch. If they are not, they will not engage the clutch and the sash will not operate properly.

2. With both pivot pins in place in the track, slide the sash straight down until the pivot pins engage the clutches. Then, slowly tilt the sash back into the upright position within the frame. Remember to retract the tilt latches so they will clear the frame. Once the sash has been snapped into place, release the tilt latches. Make sure that the latch has properly engaged the jamb liner track. Adjust as necessary.

3. Slide the sash to the top of the frame.
Repeat the process for the bottom sash.
With both sashes in place, engage the sash
lock(s) to lock the window.

**Single hung procedure – fixing the top
sash:**

1. For a single hung window, the top sash
needs to be fixed in place once the
window installation is complete. For
single hung windows, the inside head stop
(located at the top interior of the window)
is pre-drilled with two to four holes,
depending on window width. Slide the top
sash up into place and lock the sash (see
Figure 35).

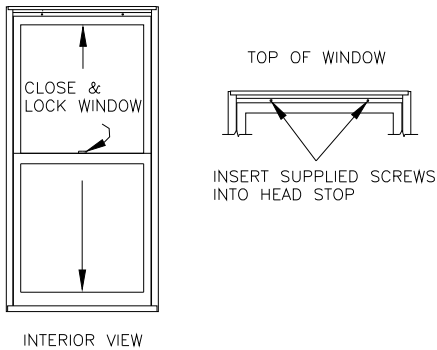


Figure 35

Important: Make sure the sashes are
locked prior to installing screws.

2. Insert a #6x1-5/8” trim head screw
(supplied) into each of the pre-drilled
holes and screw into place.



Wood Direct Glaze Window Installation Instructions

Please read installation instructions carefully before starting.

These instructions include installation information for wood direct glaze windows.

Installation of unit:

1. Check rough opening to insure that opening is level, plumb and square. Verify that width and height dimensions are correct. Rough opening should be $\frac{3}{4}$ " wider than overall frame width and $\frac{3}{4}$ " greater than overall frame height. Sill plate should be flat and level. Make sure opening, is dry, clean and free of dirt and debris.

NOTE: Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

NOTE: Flashing material is recommended to be at least 9" wide.

CAUTION: Any variance from this installation procedure signifies that proper waterproofing becomes the responsibility of the design professional and/or the installer.

Sill flashing and sealing:

2. An overview of the proper flashing sequence is shown in Figure 1.

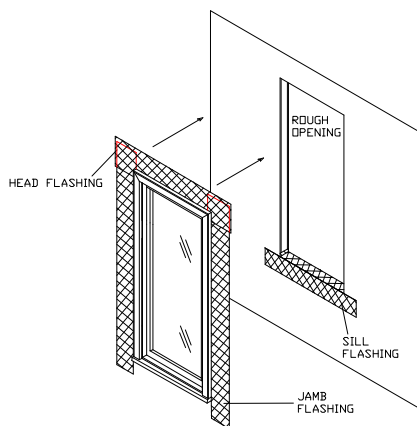


Figure 1

3. Begin flashing of the rough opening (RO) by applying flashing material along the exterior edge of the sill plate (see Figure 2). Make sure that the flashing extends 8-1/2 inches beyond both sides of the RO (see Figure 3).



Figure 2



Figure 3

4. Next, apply another length of flashing that will cover the sill plate. Cut to length a piece that is two inches wider than the opening and apply as shown (see Figure 4). Overlap this flashing (in weatherboard fashion) approximately one inch onto the previously applied flashing.



Figure 4

5. Carefully cut the flashing to fit the opening using the rough stud as a guide (see Figure 5).



Figure 5

6. Fold the middle section of the flashing onto the sill plate. Keep as smooth and wrinkle free as possible (see Figure 6).



Figure 6

7. Cut two small pieces of flashing to fit into the corners of the rough opening. Each piece should extend the width of the rough stud and approximately one inch up the side (see Figures 7, 8 and 9). Check sill for level.



Figure 7



Figure 8



Figure 9

8. Next, pre-drill 1/8" holes through the brickmould to prepare for installing the window into the rough opening. This will prevent the brickmould from splitting. Start the holes approx. 2" – 3" from each corner and then 12" – 16" on center thereafter.

9. Next, apply a continuous 1/2" bead of polyurethane along the head and both side jambs of the rough opening (see Figure 10). Do not apply sealant along the front edge of the sill.

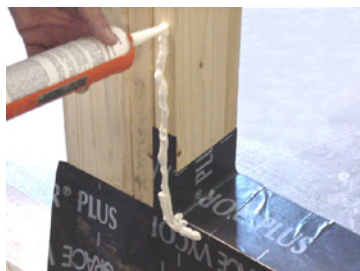


Figure 10

10. Apply two 1/2" beads of polyurethane sealant along the width of the sill plate for the window sill to set on (see Figure 11). The first bead should be discontinuous, located 1/4" from the exterior edge of the rough opening. The second bead should be continuous, located 4" from the exterior edge of the rough opening. The sealant and flexible self-adhesive backed flashing will effectively function as a sill pan. A

rigid sill pan is also acceptable. The installation details for this type of application are noted in the sections covering door installations.

11. Prior to setting the window into the opening, place 1/4" non-compressible, plastic shims onto the sill plate as shown. Space the shims 1" to 2" from each end and then approximately 12 inches thereafter.

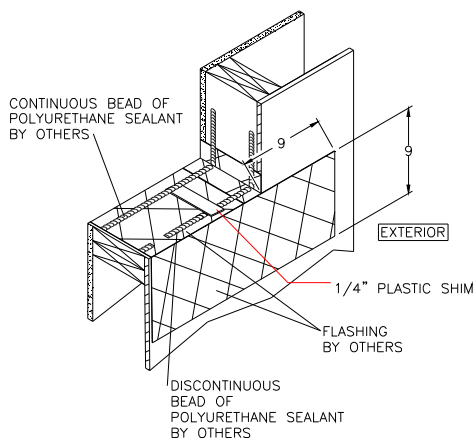


Figure 11

NOTE: Wood exterior windows are shipped with self-adhesive backed flashing attached to the top and both sides of the frame.

12. Insert and center the window in the rough opening (see Figures 12 and 13). When doing so, tilt the window back so that the sill can be set into the opening and onto the sealant. Take care not to scrape sealant off the sill plate. A

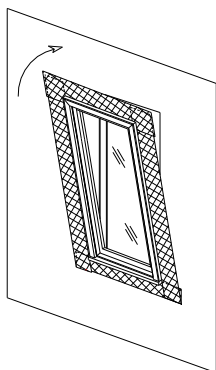


Figure 12



Figure 13

CAUTION: Lift and position windows with care. Some windows or window mullion assemblies are very heavy. Please use two or more people to handle heavy windows.

13. With the window set into the rough opening, check to make sure it is centered. Tack the window in place with one 3" stainless steel screw (or equivalent) in the side brickmould within 2" – 3" of each corner (see Figure 14).



Figure 14

Check for squaring and alignment:

Make sure that the window is set straight, flat and level. Use a tape measure to measure the diagonal dimensions of the frame to ensure that the frame is square. Diagonal measures should be within 1/8". Also, check frame width across top, middle and bottom (see Figure 15). Width measures should be within 1/16".

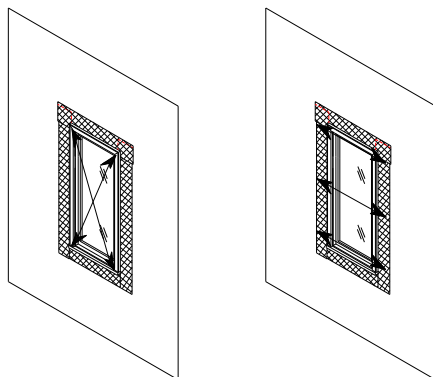


Figure 15

This measurement should be double-checked by using a framing square. Shim at the top of the side jambs as required. Use a level or straight edge to verify that the jambs and sill are straight (see Figures 16-19).



Figure 16



Figure 17



Figure 18



Figure 19

Securing the window and final flashing:

1. With the window straight, square and level, finish securing in place. Secure the brickmould to the sheathing, beginning 2" – 3" from the corners and 12" – 16" thereafter.
2. Place a small amount of polyurethane over the head of each screw.
3. Once the window has been set into the opening, extend the continuous sealant bead applied to the sill plate up the gap between the window side frame jambs and the rough studs (see Figures 20 and 21). Apply the sealant 6 inches up the gap. Use backer rod as necessary. Repeat for the opposite side.

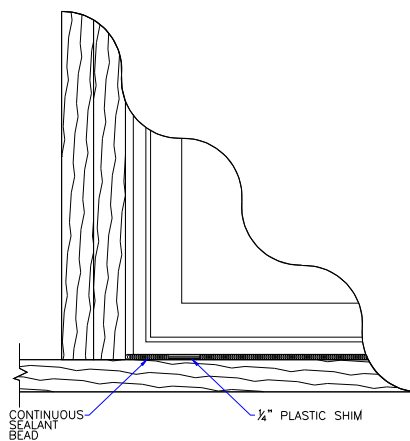


Figure 20

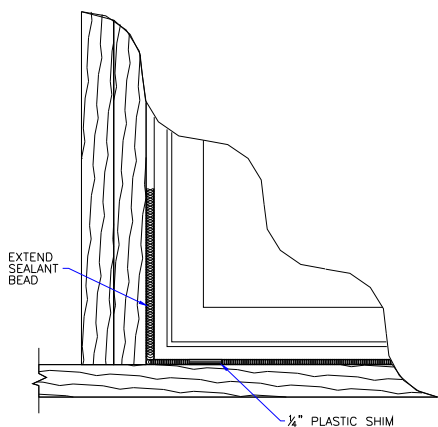


Figure 21

4. Unfold the jamb flashings. Note that one side of each flashing is already attached to the window frame. The top of the side jamb flashing extends well above the top of the window frame but just below the top edge of the head flashing. Verify that the ends of the head flashing extend just beyond the edge of the side jamb flashing (see Figure 22).

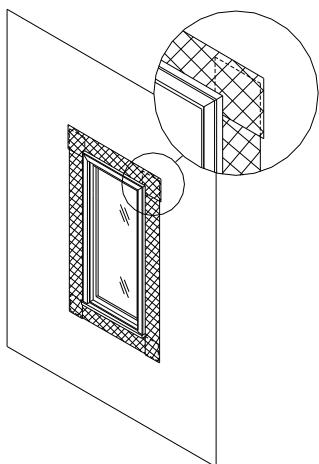


Figure 22

5. Extend the bottom of the side jamb flashing to overlap the sill flashing.

Verify that the bottom of the side jamb flashing completely covers the end of the sill flashing (see Figure 23).

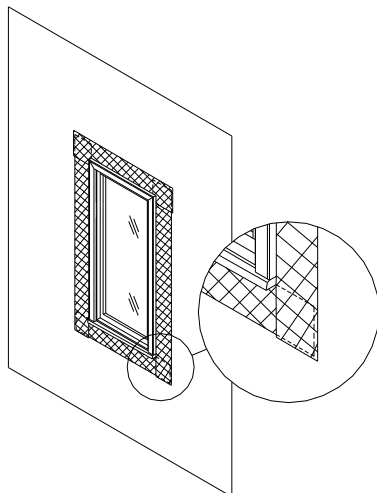


Figure 23

6. Peel the paper backing from the self-adhesive backed side jamb flashing and press into place. Press evenly and flatten to minimize any wrinkling. Repeat for the other side (see Figure 24).



Figure 24

7. Peel the backing from the self-adhesive backed head flashing and press into place. Press evenly to minimize any wrinkling.

8. Complete installation by applying sealant around the perimeter of the unit after the exterior wall finish has been applied.



Wood Bay and Bow Window Installation Instructions

Please read entire installation instructions carefully and thoroughly before starting.

Preparation for installation:

CAUTION: Bay and bow windows are extremely heavy composites. Use a sufficient number of people to pick up and set the composite in place in the opening.

1. Check rough opening to insure that opening is level, plumb and square. Verify that width and height dimensions are correct. Rough opening should be $\frac{3}{4}$ " wider than overall frame width and $\frac{3}{4}$ " greater than overall frame height. Sill plate should be flat and level. Make sure opening, is dry, clean and free of dirt and debris.

NOTE: Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

Flashing material is recommended to be at least 9" wide.

Any variance from this installation procedure signifies that proper waterproofing becomes the responsibility of the design professional and/or the installer.

2. An overview of the proper flashing is shown in Figure 1. Application is in weatherboard fashion

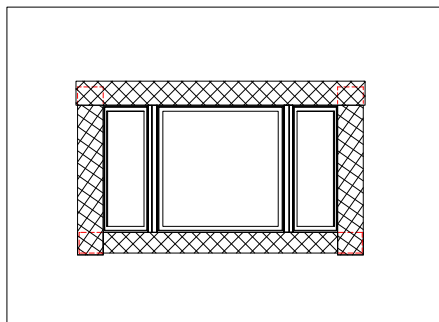


Figure 1

3. Begin flashing of the rough opening (RO) by applying flashing material along the exterior edge of the sill plate. Make sure that the flashing extends 8-1/2" beyond both sides of the RO.

4. Apply a 1/2" bead of polyurethane to the side framing where the side jamb nailing flange will attach.

Installing the bay/bow window unit:

5. Carefully center the unit within the rough opening. Use a sufficient number of people to lift the unit. Use proper lifting techniques.

6. Place adequate temporary support (e.g. a sawhorse, 2x4s and/or jack) to hold the unit in place while securing (see Figure 2). Position the support under the outer edge of the unit to ensure stability.

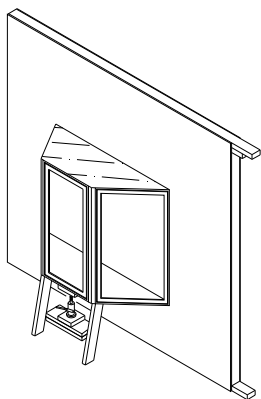


Figure 2

7. Temporarily, anchor the window unit to opening. If window unit has a headboard and seat board, use #8x3" stainless steel screws to attach. Use three or four evenly spaced screws to temporarily secure the seat board.

8. Align the unit within the rough opening. Once plumb, temporarily secure the head board to the header.

9. If there is no head or seat board on the unit, use #8x3" stainless steel screws to temporarily attach the brickmould to rough framing.

10. Verify that the bow or bay unit is plumb, level and square. Check that the sill is level. Use a square to check the corners. Then, check the diagonal measures of the unit to ensure that it is square and not racked out of position. Verify that operating windows properly operate. Adjust as need and refasten screws.

11. Install shims on all four sides of the window unit. Place shims at all anchor points.

12. Complete the anchoring of the unit. Screws should start no more than 6" from end of head or seat board and then 12" O.C. thereafter. Also, attach side jamb brickmould to framing using 3" stainless steel screws. Start 3" – 4" from end, then 12" O.C. thereafter.

13. Support options:

There are several different methods for providing support for bow and bay windows. The methods listed here are some of the more common:

a. Knee brace- supports are required when the wall does not project directly below the window unit (see Figure 3).

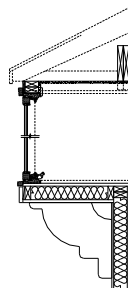


Figure 3

b. Frame-brace- similar to knee brace, but walled/sided in to create area for under bow / bay storage (see Figure 4). Knee braces should be attached at window mull joints.

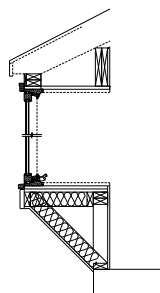


Figure 4

c. Stem wall / slab support- the wall framing projects directly below the window onto a stem wall or concrete slab (see Figure 5).

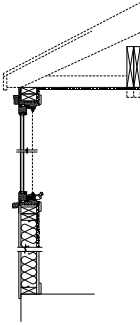


Figure 5

14. Sealing and flashing exterior of bow or bay unit.

Complete flashing of the unit. In weatherboard fashion, attach the side flashing (see Figure 6). Make sure it completely overlaps the ends of the sill flashing. Then, as applicable, apply the head flashing. Make sure to completely cover the top ends of the side flashing.

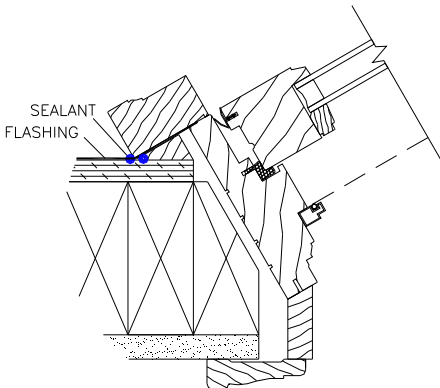


Figure 6

15. Top cover (roof) options:
Roofing options over bay or bow windows are varied. Whether using the existing roof or installing an independent roof structure, please follow standard roofing installation practices.

16. Once the roof and siding are installed and complete, apply a bead of sealant (a high quality polyurethane / silicone) between the siding and the window.



Wood Patio Slider Door Installation Instructions

Please read installation instructions carefully before starting.

These installation instructions apply to both 2-panel and 4-panel patio slider doors.

Installation of unit:

1. Check rough opening to insure that opening is level, plumb and square. Verify that width and height dimensions are correct. Rough opening should be $\frac{3}{4}$ " wider than overall frame width and $\frac{3}{4}$ " greater than overall frame height. Sill plate should be flat and level. Make sure opening, specifically the subfloor, is dry, clean and free of dirt and debris.

NOTE: Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

NOTE: Flashing material is recommended to be at least 9" wide.

CAUTION: Any variance from this installation procedure signifies that proper waterproofing becomes the responsibility of the design professional and/or the installer.

2. Sill Pan. Sierra Pacific strongly recommends the use of a sill pan. A rigid or flexible membrane pan may be used depending upon project specifications

and installation conditions. Installation should be compliant with ASTM E 2112 "Standard Practice for Installation of Exterior Windows, Doors and Skylights." Figures 3, 4 and 5 illustrate installation using a rigid sill pan.

3. An overview of the proper flashing sequence is shown in Figure 1.

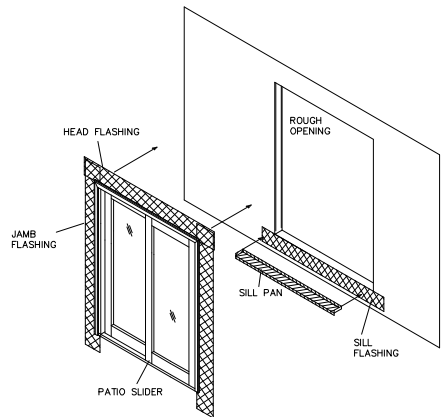


Figure 1

4. Begin flashing of the rough opening (RO) by applying flashing material along the exterior edge of the sill plate (see Figure 2). Make sure that the flashing extends 8-1/2 inches beyond both sides of the RO. Next, apply two continuous beads of polyurethane sealant across the width of the sill, approximately $\frac{1}{2}$ - 1 inch in from the interior and exterior edges of the RO (see Figure 3). The sealant should extend 6 inches up each side of frame members. One additional bead should be applied along the exterior vertical edge of the sill plate as shown. This will create a seal between the sill pan and the sill. Set the sill pan in place (see Figure 4) and make sure that it is fully seated in the sealant, especially the front lip.

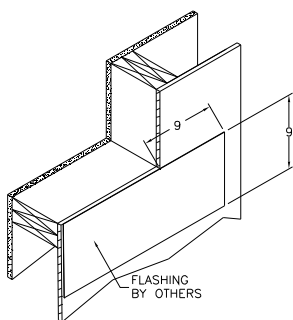


Figure 2

5. Once in place, apply a bead of sealant across the vertical back leg of the sill pan. The bead should be continuous and extend across the entire length of the sill pan. A discontinuous bead should then be applied near the exterior edge of the sill pan. Complete the sealant application by applying a bead along the top lip of the sill pan end to seal between the pan and the rough framing (see Figure 5).

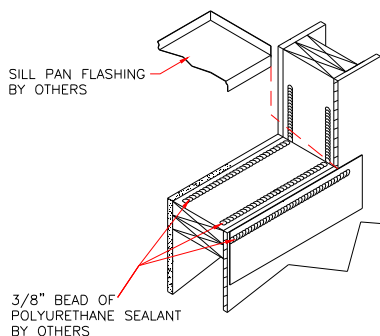


Figure 3

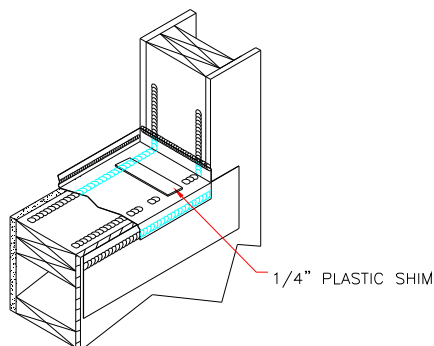


Figure 5

6. Prior to setting the door into the sill pan, place 1/4" non-compressible, plastic shims onto the sill pan as shown (see Figure 5). Space shims 1 to 2 inches from each end and then approximately every 12 inches thereafter.

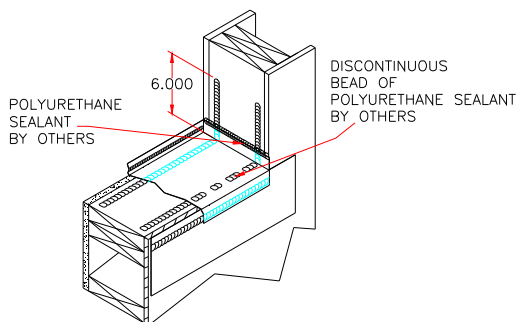


Figure 4

7. Apply a continuous 1/2" bead of polyurethane along the head and both sides jambs of the rough opening (see Figure. 6).

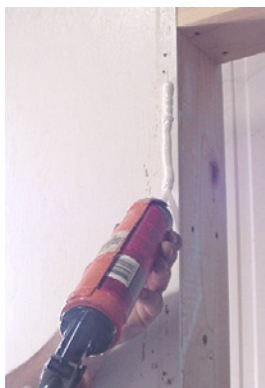


Figure 6

NOTE: Wood exterior doors are shipped with self-adhesive backed flashing attached to the top and both sides of the frame.

8. Insert and center the door in the rough opening. When doing so, tilt the door back so that the sill can be set into the opening and onto the sealant and not scrape it off the sill pan (see Figure 7).

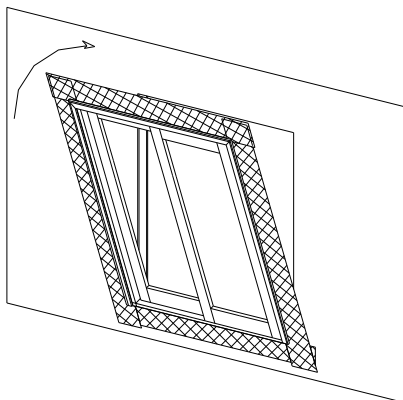


Figure 7

9. With the door set into the rough opening, check to make sure it is centered. Tack the door in place with one 1-1/2" stainless steel screw (or

equivalent) in the top brickmould within 3-6" of each corner. Make sure that the sill is straight, flat and level. Use a tape measure to measure the diagonal dimensions of the frame to ensure the frame is square (see Figure 8). Diagonal measures should be within 1/8". This measure should be double-checked by using a framing square. Shim at the top of the side jambs as required. Use a level or straight edge to ensure the jambs are straight. Also, check frame width across top, middle and bottom. Width measures should be within 1/16".

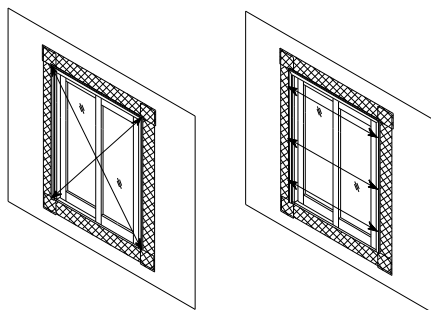


Figure 8

IMPORTANT: Proper shimming is required to ensure the unit will perform properly.

10. Place a shim behind each keeper slot of the strike plate on the lock side jamb (2-panel door only). Place a #8x3" stainless steel screw (provided) into each hole at both ends of each keeper slot (see Figure 9). #8x7/8" stainless steel screws are inserted into the remaining screw holes in the strike plate. It is recommended that the holes be pre-drilled into the framing. Make sure that the door is fully seated in the opening before inserting screws.

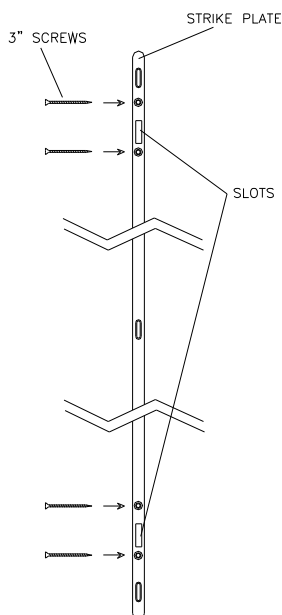


Figure 9



Figure 10



Figure 11

11. Use a 1/8" drill bit to pre-drill into the header through the holes in both halves of the head track. Insert 3" stainless steel screws. Do not over-tighten. Check to make sure frame head is level. The active panel(s) will have to be opened completely to expose all the holes in the head track (see Figures 10 and 11). When unlocking without the use of the handle set, use a standard screwdriver to activate the lock. The door will not lock unless the active panel(s) is (are) closed completely.

Note: For installations with transom windows mullered directly to the top of a patio slider door, replace the 3" screws with 1-7/8" stainless steel screws.

12. Adjust door panel and striker bar to ensure proper operation and locking. Complete the fastening of the door to the structure using stainless steel screws (or equivalent) and securing the brickmould to the sheathing. Fasteners should be spaced every 12" – 14".

13. If required, attach a support block made from pressure treated or decay resistant wood (not provided) underneath the exterior lip of the sill (see Figure 12).

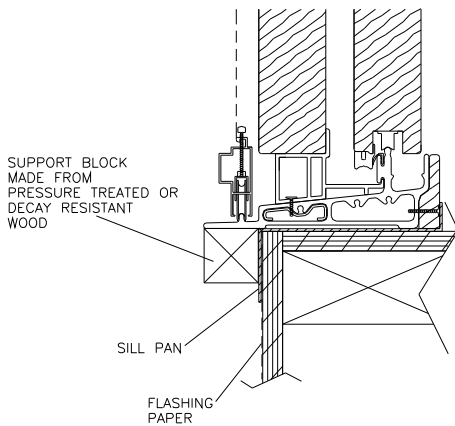


Figure 12

14. Once door is properly installed, anchored and operating correctly, finish securing the brickmould.

15. Secure the brickmould to the sheathing with 3" stainless steel screws, beginning 3" – 4" from the corner and 12" – 16" thereafter.

16. Place a small amount of polyurethane over each screw head.

17. Unfold the jamb flashings. Note that one side of each flashing is already attached to the door frame. The top of the side jamb flashing extends well above the top of the door frame but just below the top edge of the head flashing. Verify that the ends of the head flashing extend just beyond the edge of the side jamb flashing (see Figure 13).

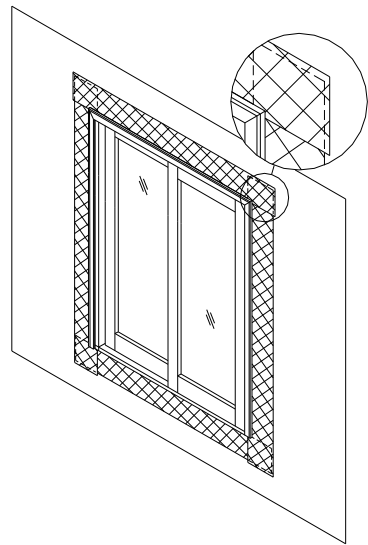


Figure 13

18. Extend the bottom of the side jamb flashing to overlap the sill flashing. Verify that the bottom of the side jamb flashing completely covers the end of the sill flashing (see Figure 14).

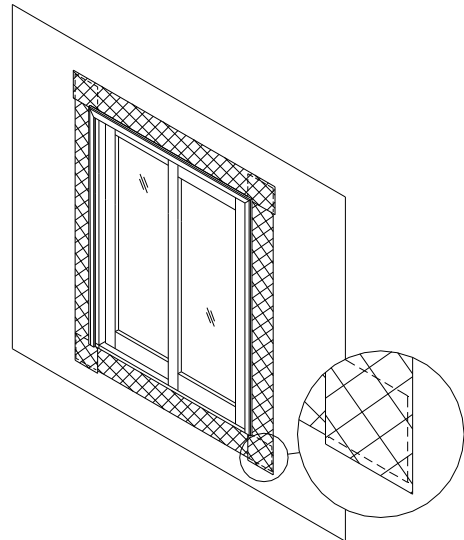


Figure 14

19. Peel the paper backing from the self-adhesive backed side jamb flashing and press into place. Press evenly and flatten to minimize any wrinkling. Repeat for the other side.

20. Peel the backing from the self-adhesive backed head flashing and press into place (see Figure 15). Press evenly to minimize any wrinkling.



Figure 15

21. Complete installation by applying sealant around the perimeter of the unit after the exterior wall finish has been applied.

Removing the operating panel:

1. Remove the interior head stop (located at the head jamb). Gently pull downward, starting from one end and release from kerf fastener (see Figure 16).

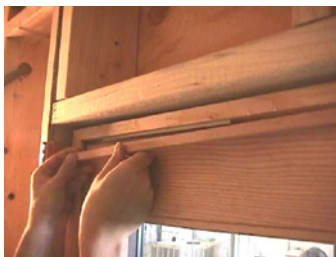


Figure 16

2. Remove the bumper stop block from the stationary side of the head jamb (see Figure 17).

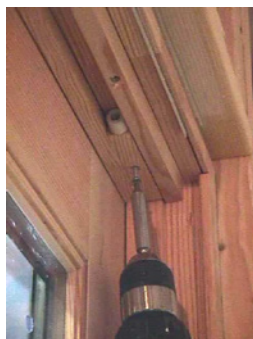


Figure 17

3. The head track is installed in two pieces (four pieces on the 4-panel door). Begin by removing the stationary side head track by removing the screws. With the operating panel completely closed, remove this piece of head track (see Figures 18 and 19). Take care to note from which side each head track piece was removed. It is important to replace each track piece to the same location from where it was removed.

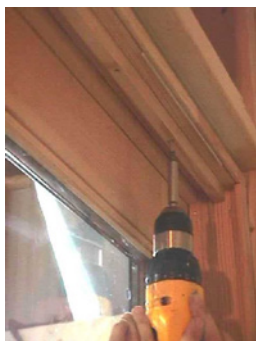


Figure 18

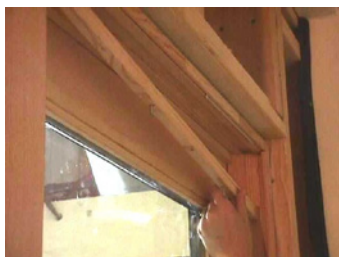


Figure 19

4. Slide the operating panel into the open position so that it is against the stationary side jamb.

CAUTION: Take care to support the top of the operating panel so it does not fall.

Remove the screws from the operating side head track. Then while moving the operating panel towards the closed position, slide the head track back through the plow at the top of the operating panel (see Figure 20).



Figure 20

For 4-panel door:

Operator side head track can be pulled straight down after removing screws. Do not have to slide over top of the panel.

5. Slide the operating panel into the closed position and remove the remaining head track piece from the head jamb (see Figure 21).

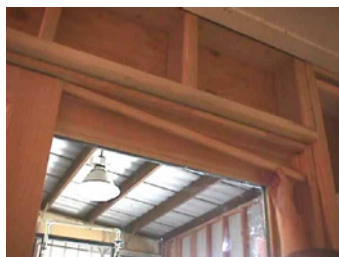


Figure 21

CAUTION: Take care to support the top of the operating panel so it does not fall.

6. With both tracks removed, tilt the top of the panel towards the interior and carefully lift it off the roller track (see Figure 22).



Figure 22

CAUTION: Lift with care. Panels are very heavy. Use two people to remove panel.

7. Set the panel down carefully so as not to damage the panel extension at the exterior side of the panel bottom.

Installing the operating panel:

1. Remove the interior head stop (located at the head jamb). Gently pull downward, starting from one end and release from kerf fastener (see Figure 23).

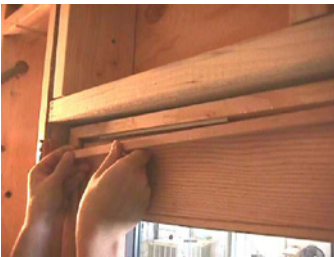


Figure 23

2. Remove the bumper stop block from the stationary side of the head jamb (see Figure 24).

For 4-panel door:
Repeat opposite side.



Figure 24

3. Remove the stationary and operating sides of the head tracks from the head

jamb by removing the screws. Take care to note from which side each head track piece was removed. It is important to replace each track piece to the same location from where it was removed.

4. Set the bottom of the operating panel onto the sill making sure that the rollers are properly aligned and setting on the roller track.

CAUTION: Lift with care. Panels are very heavy. Use two people to install panel.

5. Once the rollers are on the track, tilt the panel into place and hold in position. Carefully slide the panel a few inches to ensure the rollers are tracking properly.

CAUTION: Take care to support the top of the operating panel so it does not fall.

The panel should roll easily. If it does not, reposition until rollers are on the track.

6. Slide the operating panel into the closed position. Slide the operating side head track through the plow at the top of the panel while slowly moving the panel into the open position. Pull the head track piece over the panel and position against the side jamb. Again, make sure that the correct track piece is inserted and screw into place (see Figure 25). Be careful not to pinch the bulb weather-strip between the head track and side jamb.

For 4-panel door:

Slide the panel into the closed position and engage the operating panel interlock with the stationary panel interlock. While holding the active panel in place, insert the stationary side head track into

the plow and secure into place with screws.



Figure 25

7. With the operating panel in the closed position, place the stationary side head track into the head jamb. Secure the stationary side head track with screws (see Figure 26).

For 4-panel door:

Slide the operating panel into the open position and place the operating side head track into the head jamb. Screw the track into place.



Figure 26

For 4-panel door:

Repeat steps 6 and 7 to install the second operating panel.

8. Re-apply the head stop onto the exposed kerf fastener. Re-apply the bumper stop block.

Panel height adjustment: The height of the operating panel can be adjusted by accessing the height adjustment screw

on each roller. To access the screw, remove the cap from both holes at the bottom of the panel on the interior side. Insert a large slotted or Philips screwdriver into the screw and turn counter-clockwise to adjust the panel upward (see Figure 27). Adjust the rollers as needed to ensure a proper fit between the panel and frame.

For 4-panel doors:

Adjust the rollers on the second active panel as on the first. The panels should be set to the same height and must be parallel with one another.



Figure 27

Strike bar adjustment: The strike bar can be adjusted via the slotted holes in the base plate (see Figure 28). By slightly loosening the screws, the bar can be adjusted up or down to achieve correct alignment with the lock mechanism. Do not over tighten.



Figure 28

Handle set installation: Separate handle set installation instructions are supplied with the hardware set.

Flushbolt adjustment (4-panel door):

The position of the strike plate for the flushbolt (installed on the head track above the panel) can be adjusted for proper alignment with the flushbolt. The plate is adjusted via the slotted screw holes on either side of the flushbolt hole.

Foot operated lock (4-panel door):

See separate installation instructions.



Wood Inswing & Outswing Door Installation Instructions

Please read installation instructions carefully before starting.

This section includes install instructions for wood single and double swing doors.

Installation of unit:

1. Check rough opening to insure that opening is level, plumb and square. Verify that width and height dimensions are correct. Rough opening should be $\frac{3}{4}$ " wider than overall frame width and $\frac{3}{4}$ " greater than overall frame height. Sill plate or concrete slab should be flat and level. Make sure opening, specifically the sub floor (or concrete), is dry, clean and free of dirt and debris.

NOTE: Flashing and/or an appropriate method of sealing shall be designed as a part of an overall weather resistive barrier system. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

NOTE Flashing material is recommended to be at least 9" wide.

CAUTION: Any variance from this installation procedure signifies that proper waterproofing becomes the responsibility of the design professional and/or the installer.

2. Sill Pan. Sierra Pacific strongly recommends the use of a sill pan. A rigid or flexible membrane pan may be used depending upon project specifications

and installation conditions. Installation should be compliant with ASTM E 2112 "Standard Practice for Installation of Exterior Windows, Doors and Skylights." Figures 3, 4 and 5 illustrate installation using a rigid sill pan.

3. An overview of the proper flashing sequence is shown in Figure 1.

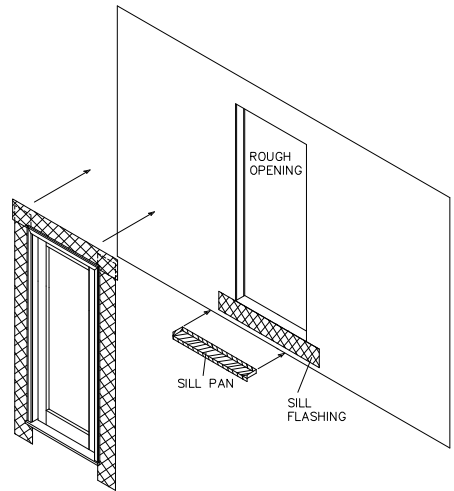


Figure 1

4. Begin flashing of the rough opening (RO) by applying flashing material along the exterior edge of the sill plate (see Figure 2). Make sure that the flashing extends 8-1/2 inches beyond both sides of the RO. Next, apply two continuous beads of polyurethane sealant across the width of the sill, approximately $\frac{1}{2}$ - 1 inch in from the interior and exterior edges of the RO (see Figure 3). The sealant should extend 6 inches up each side of frame members. One additional bead should be applied along the exterior vertical edge of the sill plate as shown. This will create a seal between the sill pan and the sill. Set the sill pan in place (see Figure 4) and make sure that it is fully seated in the sealant, especially the front lip.

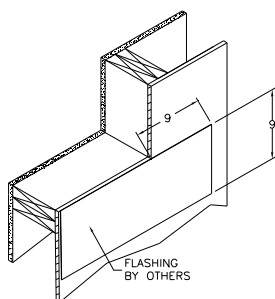


Figure 2

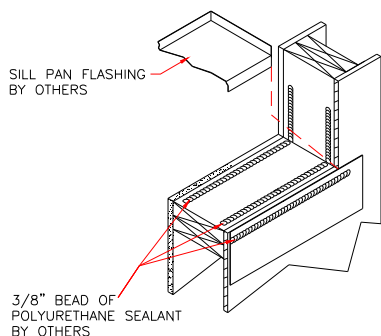


Figure 3

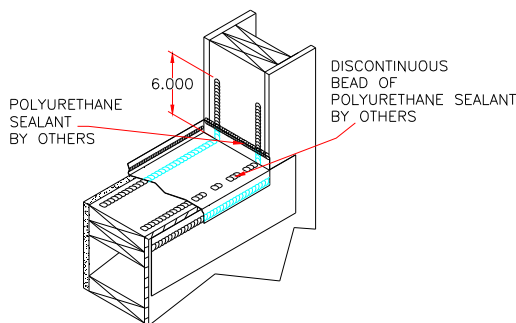


Figure 4

5. Once in place, apply a bead of sealant across the vertical back leg of the sill pan. The bead should be continuous and extend the entire length of the sill pan. A discontinuous bead should then be applied near the exterior edge of the sill

pan. Complete the sealant application by applying a bead along the top lip of the sill pan end to seal between the pan and the rough framing (see Figure 5).

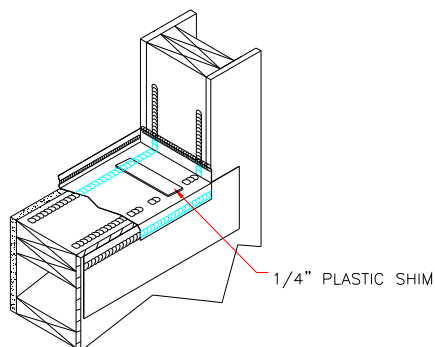


Figure 5

6. Prior to setting the door into the sill pan, place 1/4" non-compressible, plastic shims onto the sill pan as shown (see Figure 5). Space shims 1 to 2 inches from each end and then approximately every 12 inches thereafter.

7. Apply a continuous 1/2" bead of polyurethane along the head and both sides jamps of the rough opening (see Figure 6).



Figure 6

NOTE: Wood exterior doors are shipped with self-adhesive backed flashing attached to the top and both sides of the frame.

8. Insert and center the door in the rough opening. When doing so, tilt the door back so that the sill can be set into the opening and onto the sealant and not scrape it off the sill pan (see Figures 7 and 8).



Figure 7

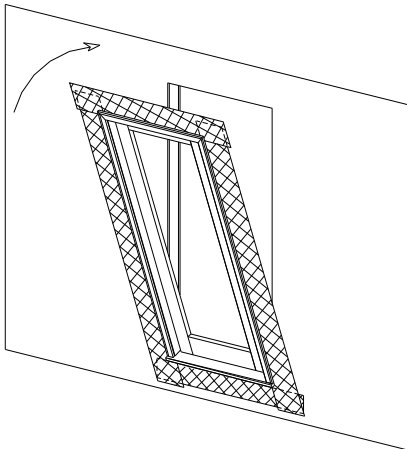


Figure 8

9. With the door set into the rough opening, check to make sure it is centered. Tack the door in place with one 3" stainless steel screw (or equivalent) in the top brickmould within 3-6" of each corner (see Figure 9).



Figure 9

10. Make sure that the sill is straight, flat and level. Use a tape measure to measure the diagonal dimensions of the frame to ensure the frame is square (see Figure 10). Diagonal measures should be within 1/8". This measure should be double-checked by using a framing square. Shim at the top of the side jambs as required. Use a level or straight edge to ensure the jambs are straight (see Figure 11). Also, check frame width across top, middle and bottom. Width measures should be within 1/16".

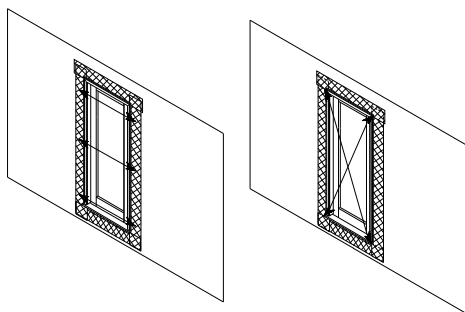


Figure 10



Figure 11

IMPORTANT: Proper shimming is required to ensure the unit will perform properly.

11. Remove from the hardware bag the construction handle and #12x3" screws. Insert one #12x3" screw into the one empty screw hole per hinge (see Figure 12). Again, note that each hinge needs to be shimmed (see Figure 13). Each 3" screw must be screwed into the trimmer stud to ensure proper anchoring of the door. This is critical for proper support of the swinging panels.



Figure 12



Figure 13

Note: For swing doors with a stationary sidelight attached (mulled), it is still important for the door to be properly shimmed. For this application, shims should be applied between the sidelight side jamb and the rough stud framing. Place shims directly opposite of each hinge position on the operable door (see Figure 14). If a double operable door has sidelights attached to both sides, both sidelights will require shims.

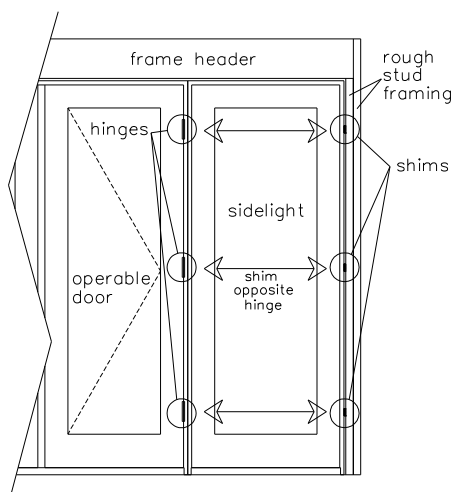


Figure 14

12. Once each hinge has been anchored, confirm that the door panels are properly hung and aligned in the frame (see Figure 15). The reveal between the panel(s) and the frame should be $\frac{1}{8}$ ". It should be even along both sides and the top of the door. Remember, each hinge must be shimmed.



Figure 15

Note: For fine adjustment, thin shims have been placed behind the leaves of each hinge. Remove or add as required.

13. The top frame member (header) should also be anchored by predrilling and screwing in the same fashion as the side jambs. Although shimming is not

required the full length of the header, shimming and attachment at the head strike plate is necessary (see Figure 16). Use the #8x3" screw provided in the hardware bag.

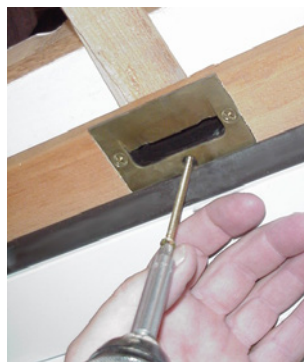


Figure 16

14. Installation for finish hardware is supplied in the hardware box. Please follow these instructions. Upon completion of the hardware installation, make sure that the multi-point hardware engages correctly at the head and sill strikes.

15. Once door is properly installed, anchored and operating correctly, finish securing the brickmould.

16. Secure the brickmould to the sheathing with 3" stainless steel screws, beginning 3 – 4 inches from the corner and 12 – 16 inches thereafter.

17. Place a small amount of polyurethane over each screw head.

18. Unfold the jamb flashings. Note that one side of each flashing is already attached to the door frame. The top of the side jamb flashing extends well above the top of the door frame but just below the top edge of the head flashing. Verify that the ends of the head flashing extend

just beyond the edge of the side jamb flashing (see Figure 17).

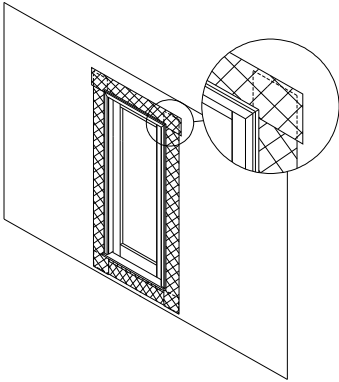


Figure 17

19. Extend the bottom of the side jamb flashing to overlap the sill flashing. Verify that the bottom of the side jamb flashing completely covers the end of the sill flashing (see Figure 18).

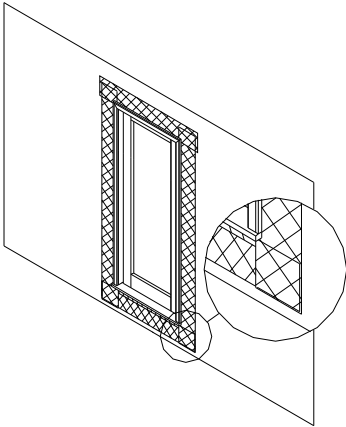


Figure 18

20. Peel the paper backing from the self-adhesive backed side jamb flashing and press into place. Press evenly and flatten to minimize any wrinkling. Repeat for the other side.

21. Peel the backing from the self-adhesive backed head flashing and press into place (see Figure 19). Press evenly to minimize any wrinkling.



Figure 19

22. Complete installation by applying sealant around the perimeter of the unit after the exterior wall finish has been applied.

23. Some installations will require sill nose support. See Figure 20 for typical applications.

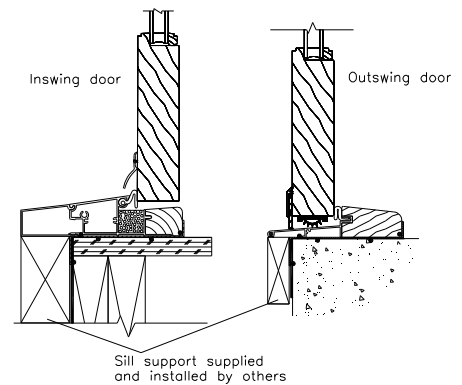


Figure 20

General Finishing Instructions:

To be done as soon as possible.

1. The wood surface must be free of dust, dirt, grease or any surface contamination. The surface must be completely dry. In no instance should paints or stains be applied over damp wood.
2. Follow the paint or stain manufacturer instructions. Do not paint or stain hardware, weather-strip or jamb liners.
3. Paint with the sashes or operating panels removed from the frame and do not re-install until unit is thoroughly dry. It is important to apply a finish coat.
4. Handles, locks, strikes and escutcheon plates should be removed and paint applied to the covered area behind. Replace the hardware once the paint is completely dry.
5. Although a sealer has been applied to both the top and bottom of all door panels, it is critical that you apply a finish coat on these areas. Be careful not to paint the face of the lock mechanism on either edge of the panel.
6. Be careful not to paint or stain the sides of double hung window sashes. This could damage the jamb liners and make it difficult to operate the sashes.

For further information, please read the paint and finishing instructions of the Sierra Pacific Windows Owner's Manual or contact your local Sierra Pacific Windows Regional Service Center at 800-824-7744.

Failure to follow factory installation instructions will void the manufacturer's warranty.

Disclaimer

Notwithstanding the above exemplary instructions, installation of these windows and/or doors requires knowledge of, and must be in conformity with, all applicable federal, state and local codes and regulations. Installation of these windows also requires

- a working knowledge of the tools, equipment and methods for this installation,
- a familiarity with caulking and sealing procedures,
- glass handling procedures and
- an understanding of the fundamentals of residential and/or light commercial construction.

Flashing and/or an appropriate method of sealing must be designed as a part of an overall weather resistive barrier system. The general flashing methods are set forth as an example, only, of how to install the window. It is not the responsibility of the window manufacturer to design or recommend a flashing system appropriate for each job condition.

Field applied protective coatings can damage insulated glass, sealant, weather-strip-ping and gaskets. These are not recommended and will void the manufacturer's warranty. Stucco or concrete left on cladding or glass can damage these surfaces. Remove all foreign material from these surfaces before curing takes place.

Any type of after market film or tinting material applied to the glass surface could result in damage to the glass and will void the warranty.

Performance of installed products may be affected by factors beyond Sierra Pacific's control such as shipping, handling, installation and wear and tear. Although every effort is made to minimize the effects of such factors, it is not possible to guarantee that any particular unit will meet or exceed published specifications.

OTHER THAN AS EXPRESSLY SET FORTH IN MANUFACTURER'S STANDARD WRITTEN WARRANTY THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OF ANY KIND. SPECIFICALLY THERE ARE NO IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY OR THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Contact Information

Should you have questions regarding the information in these installation instructions, please contact your local Sierra Pacific Windows Regional Service Center at 800-824-7744, or go to www.sierrapacificwindows.com for listings of a service center near you.

Arizona

Service Center/Showroom
1650 E. Riverview Dr., Suite 101
Phoenix, AZ 85034
Phone - (602) 233-1227
Fax - (602) 233-1237

California

Manufacturing Plant/Service Center
P.O. Box 8489
11605 Reading Road
Red Bluff, CA 96080
Phone - (530) 527-9620
Fax - (530) 527-4438

Service Center/Showroom
4780 Calle Quetzal
Camarillo, CA 93012
Phone - (805) 484-9050
Fax - (805) 484-9052

Service Center/Showroom
45897 Hotchkiss St.
Fremont, CA 94539
Office - (510) 683-8505
Fax - (510) 683-8979

Service Center/Showroom
9701 Research Drive, Suite 150
Irvine, CA 92618
Phone - (800) 479-5430
Phone - (949) 788-4920
Fax - (949) 788-4928

Service Center/Showroom
9010 Kenamar Drive, Suite 200
San Diego, CA 92121
Phone - (858) 566-6572
Fax - (858) 566-6425

Colorado

Service Center/Showroom
155 Alter St., Unit F
Broomfield, CO 80020
Phone - (303) 465-4676
Fax - (303) 465-9579

Montana

Service Center/Showroom
3535 West Broadway, Unit 3
Missoula, MT 59808
Phone - (406) 728-6142
Fax - (406) 728-6143

New Mexico

Service Center/Showroom
8601 President Place NE, Suite A
Albuquerque, NM 87113
Phone - (505) 797-7880
Fax - (505) 797-7972

Utah

Service Center/Showroom
1880 North 2200 West, Suite 60
Salt Lake City, UT 84116
Phone - (801) 973-7170
Fax - (801) 973-7838

Washington

Service Center/Showroom
2600 Willamette Drive NE, Suite A
Lacey, WA 98516-1313
Phone - (360) 236-8757
Fax - (360) 236-9240



SIERRA PACIFIC WINDOWS

LIMITED WARRANTY

This Limited Warranty is effective for Sierra Pacific Window and Door Products manufactured on or after April 1, 2014 and installed in the United States and Canada, subject to the stated conditions and limitations. It is transferable. Any previous warranties will continue to apply to products manufactured by Sierra Pacific Windows prior to this date. For additional information, including care and maintenance instructions, installation instructions and previous warranties, refer to www.sierrapacificwindows.com or contact your local Sierra Pacific Windows Service Center at 1-800-824-7744.

Insulated Glass - 20 Year Limited Warranty

Sierra Pacific Windows (SPW), as manufacturer, warrants the insulated glass supplied in its window and door products against failure of the air seal due to defects in materials or workmanship for a period of twenty (20) years from the date of manufacture. This warranty does not include cracked or broken glass or damage to the product resulting from accident, abusive handling, misuse, or shattering due to heat buildup. This warranty does not include any insulated units that exceed fifty (50) square feet in overall size. Should there be a failure of the air seal within the first twenty (20) years of the warranty period, SPW will deliver to the original point of purchase, a replacement of insulated glass or sash glazed with insulated glass or will refund the purchase price, at SPW's discretion.

Labor: For two (2) years from the date of manufacture, SPW will provide the labor to replace the defective insulated glass at no charge or will refund the purchase price, at SPW's discretion. SPW shall not be responsible for repainting, refinishing or similar activities involved in the replacement of glass.

SPW will not be responsible for any labor costs for the remainder of the warranty period: years three (3) through twenty (20).

No warranty is provided on insulated glass units manufactured without capillary tubes and installed at altitudes above 4000 feet. The altitude limit for units with argon gas is 3500 feet. For similarly constructed triple glaze insulated glass units, no warranty is provided for installations at altitudes above 2200 feet.

Argon: The migration of an inert gas, such as argon, is a natural process that occurs over time and is not a defect. Argon gas within an insulated glass unit will dissipate over time. The conditions of exposure and manner of use of the window or door product will affect the rate of dissipation. Therefore, SPW makes no warranty as to the amount or percentage of argon remaining in the insulated glass unit at any time after manufacture.

Laminated Glass: Laminated glass is warranted against delamination, premature failure of the glass, or extensive permanent obstruction of vision due to seal failure for a period of five (5) years from the date of manufacture.

Wood Components, Hardware, Weatherstrip and Screens – 10 Year Limited Warranty

SPW, as manufacturer, warrants for a period of ten (10) years from the date of manufacture, that the wood components, hardware, weatherstrip and standard screens which accompany its products (the "Components") will be free from defects in workmanship or materials which might unreasonably affect the product's normal functioning. Specialty screens will be warranted for one (1) year. During the ten (10) year warranty coverage period, SPW will repair or replace any Components that are defective as to workmanship or materials at no charge, or will refund the purchase price, at SPW's discretion. SPW shall not be responsible for repainting, refinishing or similar activities connected with the repair or replacement of any Component.

Labor: For two (2) years from the date of manufacture, SPW will provide the labor to repair or replace any Components that are defective as to workmanship or materials at no charge, or will refund the purchase price, at SPW's discretion. SPW shall not be responsible for repainting, refinishing or similar activities connected with the repair or replacement of any Component.

SPW will not be responsible for any labor costs for the remainder of the warranty period: years three (3) through ten (10).

This warranty shall be null and void if the customer fails to properly finish, care for and protect all wood Components against moisture and excessive dryness and ensure that all surfaces, interior and exterior, top and bottom, are thoroughly painted, varnished or sealed by accepted industry finishing standards. This warranty shall not apply to any weatherstrip, vinyl or plastic Components to which any paint, varnish or stain has been applied.

Metal Clad - 30 Year Limited Residential Warranty for SPW Products with AAMA 2605 Powder Coated Finishes

For Thirty (30) years from the date of manufacture, SPW will provide a limited warranty on the coating on the metal cladding against cracking or checking when viewed from a distance of ten (10) feet. This warranty excludes minute fracturing or surface mars that may occur during proper fabrication procedures.

For Twenty-five (25) years from the date of manufacture, SPW will provide a limited warranty against color change of more than seven (7) Delta E units in accordance with ASTM D 2244.

For Twenty (20) years from the date of manufacture, SPW will provide a limited warranty on the coating on the metal cladding against color change of more than five (5) Delta E units in accordance with ASTM D 2244; against chalking in excess of a number eight (8) rating based on ASTM D 4214; and against adhesion loss (peeling) that significantly adversely affects the appearance of the surface to which the coating is applied when viewed from a distance of ten (10) feet from the product.

During the thirty (30) year warranty coverage period, SPW will repair or replace the defective metal cladding, or will refund the purchase price, at SPW's discretion. On any replacement parts where new wood is a component, SPW shall not be responsible for repainting, refinishing or similar activities connected with such replacement.

Labor: For two (2) years from the date of manufacture, SPW will provide the labor to repair or replace the defective metal cladding at no charge, or will refund the purchase price, at SPW's discretion. On any replacement parts where new wood is a component, SPW shall not be responsible for repainting, refinishing or similar activities connected with such replacement.

SPW will not be responsible for any labor costs for the remainder of the warranty period: years three (3) through thirty (30).

This warranty provides full coverage for fluoropolymer powder performance for the first twenty (20) years from date of manufacture. For the succeeding ten (10) years, SPW's responsibility for corrective action due to fluoropolymer powder failure will be: years 21 through 24 – 60%; years 25 through 27 – 25%; years 28 through 30 – 5%.

Metal Clad - 20/10 Year Limited Commercial Warranty for SPW Products with AAMA 2605 Powder Coated Finishes

For Twenty (20) years under normal conditions and for Ten (10) years in extreme conditions (provided warranty maintenance requirements are followed) from the date of manufacture, SPW will provide a limited warranty on the coating on the metal cladding against cracking or checking when viewed from a distance of ten (10) feet; against color change of more than five (5) Delta E units in accordance with ASTM D 2244; against chalking in excess of a number eight (8) rating based on ASTM D 4214; and against adhesion loss (peeling) that

significantly adversely affects the appearance of the surface to which the coating is applied when viewed from a distance of ten (10) feet from the product. This warranty excludes minute fracturing or surface mars that may occur during proper fabrication procedures.

Labor: For two (2) years from the date of manufacture, SPW will provide the labor to repair or replace the defective metal cladding at no charge, or will refund the purchase price, at SPW's discretion. On any replacement parts where new wood is a component, SPW shall not be responsible for repainting, refinishing or similar activities connected with such replacement.

SPW will not be responsible for any labor costs for the remainder of the warranty period: years three (3) through twenty (20).

Metal Clad - 10 Year Limited Warranty for SPW Products with AAMA 2604 Powder Coated Finishes

For Ten (10) years from the date of manufacture, SPW will provide a limited warranty on the coating on the metal cladding against cracking or checking when viewed from a distance of ten (10) feet; against color change of more than five (5) Delta E units in accordance with ASTM D 2244; against chalking in excess of a number eight (8) rating based on ASTM D 4214; and against adhesion loss (peeling) that significantly adversely affects the appearance of the surface to which the coating is applied when viewed from a distance of ten (10) feet from the product. This warranty excludes minute fracturing or surface mars that may occur during proper fabrication procedures.

Labor: For two (2) years from the date of manufacture, SPW will provide the labor to repair or replace the defective metal cladding at no charge, or will refund the purchase price, at SPW's discretion. On any replacement parts where new wood is a component, SPW shall not be responsible for repainting, refinishing or similar activities connected with such replacement.

SPW will not be responsible for any labor costs for the remainder of the warranty period: years three (3) through ten (10).

The SPW metal clad warranty shall be null and void if the customer fails to follow the mandatory warranty maintenance requirements outlined in this document and detailed in the SPW Owner's Manual.

Warranty Conditions, Exclusions and Limitations

This warranty is limited to defects in workmanship and materials and expressly excludes damage or defects caused by or arising from:

- On-site damage occurring during construction due to vandalism, acts of nature or any other cause beyond SPW's control.
- Improper handling or installation by the builder or consumer and/or failure of the builder or consumer to follow manufacturer's instructions.
- Normal wear and tear and natural weathering of surfaces.
- Prolonged exposure to weather in the unfinished and/or primed state.
- Naturally occurring corrosion or tarnishing of hardware finishes.
- Installation of the window or door in its opening in a manner which is not plumb, square and true and adequately shimmed on all sides.
- Improper installation not in conformance with SPW installation instructions: operational problems and problems related to water and/or air infiltration/leaking as a result of improper installation or flaws in building design or construction.
- Strain which is applied to the unit by movement of the building or where provisions have not been made in accordance with sound industry practices for adequate expansion or contraction of framing members.

- Products subjected to conditions exceeding their design size and/or design pressure limitations.
- Doors with ADA compliant sills, special hardware or no hardware.
- Windows with special hardware or no hardware.
- Variations in the color, grain and texture of wood products.
- Wood cellular structure failure for wood Components and any Components that come in direct contact with soil. Note: superficial mold/mildew does not indicate wood cellular structure failure.
- Improper finishing and/or maintenance of wood Components.
- Warping in door panels unless it exceeds 1/4" in the plane of the panel itself for doors up to 3'-6" x 7'-0" and/or 3/8" for doors over 3'-6" x 7'-0". This does not refer to the relation of the door panel to the frame or jamb in which it is hung. Action on any claim for warpage may be deferred for a period of time up to twelve (12) months at SPW's option to permit conditioning of the door to humidity and temperature ranges at the job-site.
- Minor glass imperfections that do not affect normal vision or product performance per the guidelines established by ASTM C 1036.
- Slight imperfections, color variations, wavy or shimmering distortions in the glass related to a laminate interlayer or heat strengthening of the glass.
- Glass breakage, failure due to misuse or abuse, and damage caused by failure to properly finish and provide maintenance, by alteration or modification to the window (e.g. customer applied tints or films, paint finishes, security systems), or as a result of any cause beyond the control of SPW (e.g. vandalism, fire, flood, earthquake, other acts of nature).
- Due to the increased potential for glass breakage or seal failure, no warranty is provided for any insulated glass unit that has an after-market tint, UV block or other film applied.
- Condensation, surface fogging or frost on exposed surfaces of windows or doors and any related water damage which may occur as the natural result of humidity within the structure or changes in interior/exterior temperatures. (Note: most condensation problems are related to excessive humidity levels in a structure; contact a heating/air conditioning specialist for help).
- Finish failures or corrosion of aluminum cladding or damage to other Components caused by contact with caustic chemicals, including but not limited to industrial cleaning agents, acid-based products, chlorine, and brickwash.
- Corrosion, wear or failure of standard hardware or aluminum cladding in extreme conditions including, but not limited to, seacoast or other corrosive environments, as well as based on elevation, orientation, and altitude, if the customer fails to follow the required warranty maintenance requirements outlined in this document and detailed in the SPW Owner's Manual.
- Products purchased through SPW that are manufactured by a third party (e.g. vinyl windows, skylites, custom hardware) are not covered under the terms of this warranty. Refer to product manufacturer's warranty for terms of coverage.

Warranty Maintenance Requirements

NOTE: The performance of the exterior aluminum coated finish, hardware and/or components may vary based on installation in extreme environments, including but not limited to seacoast and other corrosive environments, as well as based on elevation, orientation, altitude and other atmospheric conditions. Normal, regular maintenance of the product is required to maintain the appearance, to extend the finish life, and to keep the warranty intact.

Exterior Aluminum Coatings:

The following maintenance requirements for SPW products are an integral part of the warranty given for film integrity (e.g. checking, cracking, chipping and peeling), color retention, and chalking. The warranty requires that regular cleaning be performed periodically; at least twice a year for non-extreme environments and four times a year for extreme environments,

including, but not limited to, seacoast or other corrosive environments. The required maintenance procedures include:

Use clean water with slight amounts of mild alkaline detergents to clean the exterior aluminum clad surfaces.

- The cleaning effect may be increased by rubbing with a clean, soft, non-scratching, non-abrasive cloth or cotton mitten with modest pressure.
- The temperature of the parts to be cleaned must not exceed 80° F.
- Any chips or scratches must be repaired immediately and not left exposed to the elements.
- For removal of grease and oily substances, isopropyl alcohol may be used.
- The cleaning solution must not be allowed to react or remain on the coating for more than one (1) hour.
- After cleaning, the surfaces must be rinsed with clean, cold water.
- A proper maintenance record must be kept and documented. This documentation must contain the following information:
 - Date
 - Name and address of party performing the maintenance
 - Description of cleaning procedure and detergents used
 - Signature on the document of the person performing the cleaning procedure

Hardware:

The warranty requires that regular cleaning be performed periodically; at least twice a year for non-extreme environments and four times a year for extreme environments, including, but not limited to, seacoast or other corrosive environments. The required maintenance procedures include:

- Products should be cleaned with mild detergent soap and water.
- Do not use harsh cleaning agents (e.g. abrasive, industrial strength or vinegar/citrus/chlorine based cleaners).
- The cleaning effect may be increased by rubbing with a clean, soft, non-scratching, non-abrasive cloth or cotton mitten with modest pressure
- Always rinse with clean water.
- Dry thoroughly with clean, soft, non-scratching, non-abrasive cloth or cotton mitten using modest pressure.

Consult the Sierra Pacific Windows Owner Manual for additional cleaning details.

Allocation of Risks of SPW Product Performance: Because some water infiltration must be anticipated in all construction, it is imperative that the wall system be designed and constructed to properly manage moisture. SPW is not responsible for claims or damages caused by anticipated or unanticipated water infiltration; deficiencies in building design, construction and maintenance; failure to install SPW products in accordance with SPW Installation Instructions; or the use of SPW products in systems, such as barrier wall systems, unless proper management of moisture within the wall system is incorporated within the design of the system. The determination of the suitability of all building components, including the use of SPW products, as well as the design and installation of flashing and sealing systems, are the responsibility of the buyer, owner, architect, contractor, installer, or other construction professional and are not the responsibility of SPW. All risks related to building design and construction, fitness of SPW product for a particular purpose, or the maintenance, installation, and use of SPW products shall be assumed by the buyer and/or owner in conjunction with the architect, contractor, installer, or other construction professional.

This Limited Warranty sets forth our maximum liability for our products. We shall not be liable for special, indirect, consequential, or incidental damages. Your sole and exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever shall be as specified herein. We make no other warranty or guarantee, either express or implied, including implied warranties of merchantability and of fitness for a particular purpose to the

original purchaser or to any subsequent user of the product, except as expressly contained herein. In the event state or provincial law precludes exclusion or limitation of implied warranties, the duration of any such warranties shall be no longer than, and the time and manner of presenting any claim hereon shall be the same as, that provided in the express warranty stated herein.

SPW does not warrant, expressly or impliedly, any special product or item that is manufactured according to specifications supplied by the consumer.

The warranty on any replacement product will extend for the balance of the original warranty period.

All warranty claims must be made within the applicable warranty period. SPW is giving you an express Limited Warranty. SPW cannot and shall not be liable to you for any other express or implied warranties provided by distributors, dealers, salespersons or any other representatives of SPW whether written or oral. Your exclusive remedy shall be repair, replacement or refund as stated in this warranty. SPW, in its sole discretion, may choose to repair the product as an option to replacement in full satisfaction of its warranty obligation.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation of the duration of implied warranties, so the limitations or exclusions set forth above may not apply to you. Should an implied warranty of merchantability or fitness for a particular purpose apply to you, those warranties are limited in time to the duration of this warranty. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Claim Procedure

To initiate a claim action under this Limited Warranty, contact the SPW Territory Manager or SPW Dealer who sold you the products. In the event this person is unknown, please contact:

Your local Service Center or Dealer
Sierra Pacific Windows
Customer Service Manager
PO Box 8489
Red Bluff, CA 96080
www.sierrapacificwindows.com

You will be required to provide the following information: (a) your name, address and telephone number; (b) description of product for which claim is made; (c) proof of date of purchase (invoice); (d) name of SPW sales representative or dealer (if known); and (e) nature of product failure and any further pertinent information. SPW may charge a fee for on-site product inspections. However, the fee will be fully refunded if the product is found to contain a defect covered by this warranty.

Limited Warranty (as defined by Magnuson-Moss Warranty-Federal Trade Commission Improvement Act)

Product Reference Information

Order Number_____

Sold To Name _____

Date of Purchase _____

Territory Manager _____

Regional Manager _____

Product Delivery Date _____

Notes



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