

Installation Guidelines

FOR TRIMLINE PRIMED DOORS

Installer

- Read instructions completely before attempting installation. Failure to follow these guidelines will void the Trimline Wood Windows warranty coverage, written or implied.
- Always provide a copy of these instructions to the homeowner.
- These instructions are consistent with ASTM 2112 “Standard Practice for Installation of Exterior Windows, Doors and Skylights” into common wall constructions. Contact your architect or construction professional for installation into other building designs or construction methods.
- Regional codes and environmental conditions may require installation that is different from these guidelines. It is your responsibility to ensure that local codes and ordinances are followed.

Warning

- ⚠ **Work Safe!** Always wear proper eye and hearing protection when installing or adjusting Trimline products.
- ⚠ **Use Power Tools Properly!** To avoid personal injury, always follow manufacturers’ instructions for safe operation of power tools.
- ⚠ **Ladder Safety!** Working at elevated levels can be hazardous. Always use ladders and scaffolding properly. Consult manufacturers’ guidelines for safe use of these types of equipment.
- ⚠ **Safety Glazing!** Trimline products do not contain safety glazing unless specifically ordered that way. Use caution – injury could result if glass is broken and fragmented. Building codes require safety glazing for windows installed in certain areas. Consult your local building code official for guidelines.

Important

- Maintain a minimum of 1/4" between the door frame and any trim, siding or masonry.
- Use of Trimline products in barrier EIFS systems (synthetic stucco) is not recommended. To do so will void all warranties (written or implied) and Trimline will not be held responsible for any claims or damages resulting from water infiltration.
- Steel fasteners will corrode when used with ACQ pressure treated lumber. Use corrosion-resistant fasteners (such as stainless steel) when installing doors in or around these types of materials.

Handling and Storage

- Always carry door units upright. Do not carry flat! Doing so could result in damage to the unit.
- Do not store units outside.

Tools Needed

- Safety Glasses



- Ladder / Scaffolding



- Utility Knife



- Square



- Hammer (or nail gun)



- Tape Measure



- Caulk Gun



- Stapler



- Level



Materials Needed

- Backer Rod
 - 1/4"-1/2" diameter closed cell foam
- Insulation
 - Minimally expanding low pressure polyurethane window and door foam
- Shims
 - Made of cedar or synthetic material
- Casing Nails
 - 16d Galvanized
- Silicone Sealant
 - 100% Silicone
- Flashing
 - Self-adhesive flexible flashing that complies with ASTM-D779
- Rigid Metal Flashing and Fasteners
 - Applied to head brickmould

LEAD PAINT AND EXISTING WINDOW DISPOSAL:

- A) Before any remodel or renovation, make sure to identify any potential lead paint issues and take necessary steps to reduce the risk of lead contamination.
- B) The U.S. Environmental Protection Agency (EPA) has issued a “Lead Renovation, Repair and Painting Rule (RRP)” for remodelers of older homes and buildings. This rule requires training and certification in lead-safe work practices for firms performing renovation, repair or painting on homes and child-occupied facilities built prior to 1978.
- C) For more information regarding procedures for dealing with lead paint, please visit EPA’s website at www.epa.gov/lead.
- D) When removing existing windows, make sure to wear appropriate personal protective equipment. Extra precautions should be taken to protect others and property within the vicinity and below the removal window and surrounding components.
- E) Consult with local waste authorities on the proper recycling or disposal of old window components.

Step 1: Inspect Unit

Before Installation:

- A) Remove all shipping packaging material (blocks, pads, protectors, stretch wrap).
- B) Inspect unit for any damage or defects.
- C) Verify that the door unit is the correct size and configuration.
- D) Contact your nearest Trimline distributor if there are any problems.

Step 2: Prepare Rough Opening

- A) Measure and verify the size of the rough opening. The rough opening should be 3/4" larger in width and 1/2" larger in height than the frame size.
- B) For doors with clad exterior casings, additional nailer studs may be required around the perimeter of the rough opening.
- C) Verify the rough opening is flat, plumb, level and square. (Fig. 1)
- D) Take diagonal measurements to check for square. (Fig. 1)
- E) Make sure the bottom sill area of the rough opening is flat and level. Correct rough opening if sloped toward the interior, out of level or humped. (Fig. 1)
- F) Cut the weather-resistant barrier (WRB) in a "Modified I" pattern. (Fig. 2)
- G) Fold back the WRB on the sides toward the interior and staple into place. (Fig. 3)

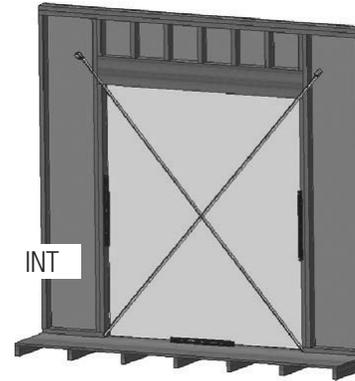


FIG. 1

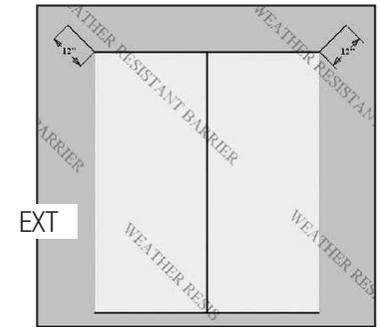


FIG. 2

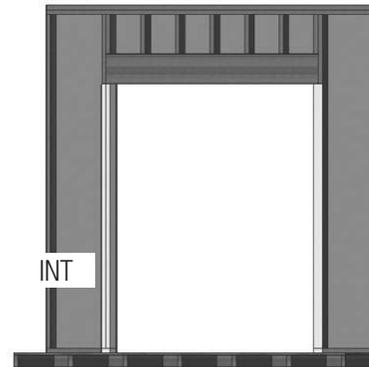


FIG. 3

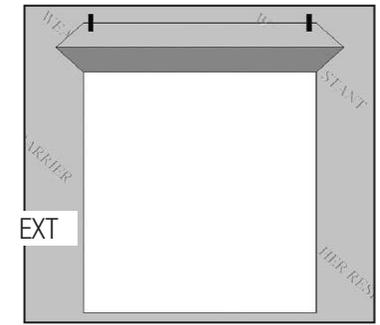


FIG. 4

- H) From the exterior, cut the top of the WRB as shown to form a flap. (Fig. 4)
- I) Temporarily tape this top flap up. (Fig. 4)

Step 3: Flashing the Sill

- A) **IMPORTANT:**
- Use flashing that is 6" minimum in width.
 - Flashing must meet ASTM-D779 performance requirements.
 - Adhesive or mechanically-fastened flashing may be used.
- B) Measure the width of the rough opening. Cut a length of flashing that is 12" wider than the rough opening. This will allow you to run the flashing 6" up each side.
- C) Cut 1-1/2" slits at each end of the flashing as shown below. (Fig. 5)



FIG. 5

- D) Apply sill flashing to the rough opening as shown below. (Fig. 6)
- E) Flashing tape must cover the entire sill. If needed, apply an additional flashing piece over the first one (start from the exterior and work toward the interior). Maintain a minimum 1" overlap. (Fig. 7)
- F) Cut and apply flashing to both sides and the top of the rough opening. Overlap the top flashing over the side flashing. The flashing should run at least 6" past each side of the rough opening. (Fig. 8)

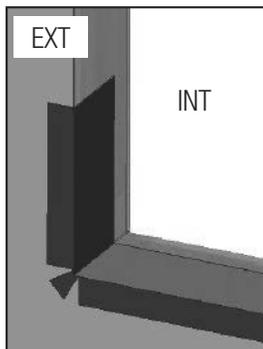


FIG. 6

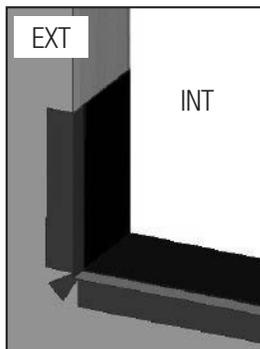


FIG. 7

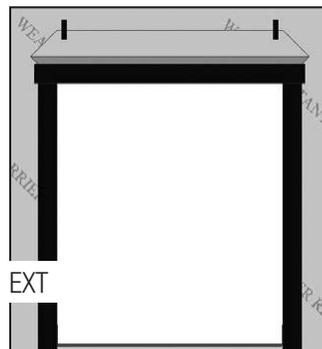


FIG. 8

Step 4: Door Installation

For Impact-rated products and/or any products installed in the Florida or Texas TDI regions, supplemental anchoring methods may be required. Refer to supplemental instructions attached to unit or www.trimlinewindows.com for further information.

- A) Remove all packaging material (blocks, pads, protectors, stretch wrap).
- B) Inspect and verify the following:
- The door unit is the correct size and configuration.
 - The unit is free from any damage or defects.
- C) Contact your nearest Trimline distributor if there are any problems with Step B above.
- D) Apply sealant on the backside of the head and side brickmould. Apply a 1/4" continuous bead of silicone along the entire length a 1/4" from the outside edge of the brickmould. (Fig. 9)

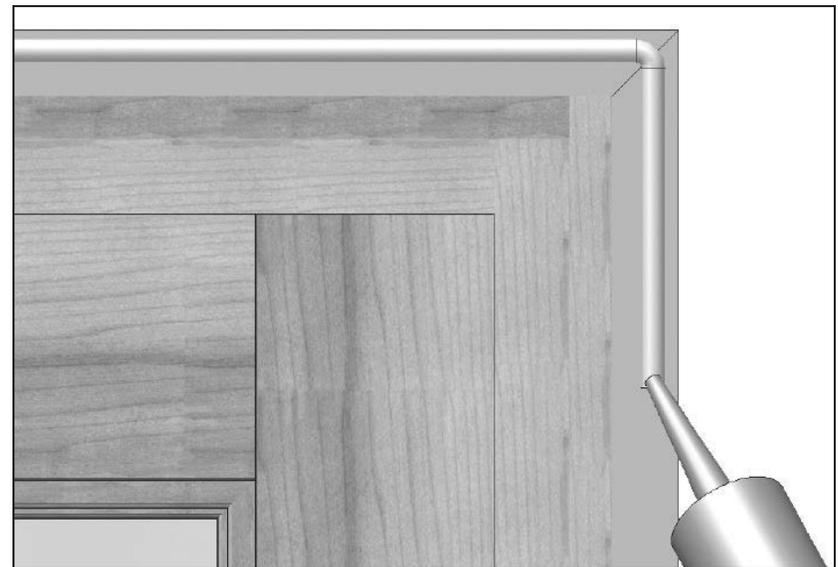


FIG. 9

- E) Apply sealant to sill rough opening (Skip Step E for the handicap sill option):
- Apply three 1/4" continuous beads of silicone across the entire width of the rough opening. Note that the locations are different for each door type. Figure 10 shows the silicone location for a 4-9/16" and 6-9/16" in-swing door. The bead location will be different for other jamb sizes. (Fig. 9, 10 & 11)
 - Apply a 1/4" continuous bead of silicone 1/2" from each side of the rough opening. The bead will run the entire depth of the jamb starting at the face of the wall. (Fig. 12)

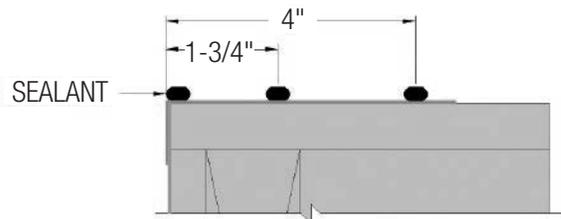
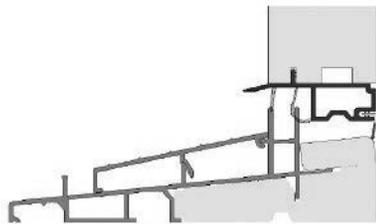


FIG. 10: 4-9/16" & 6-9/16" IN-SWING PATIO DOOR SILL

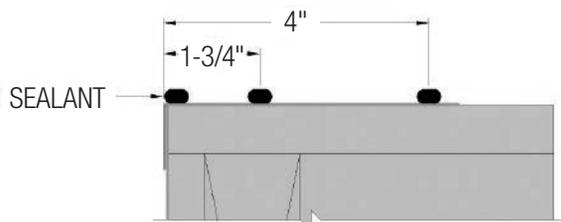
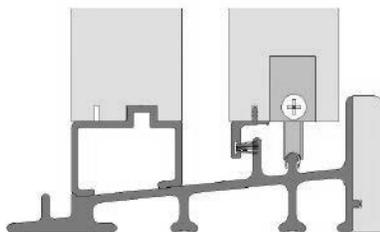


FIG. 11: SLIDING PATIO DOOR SILL

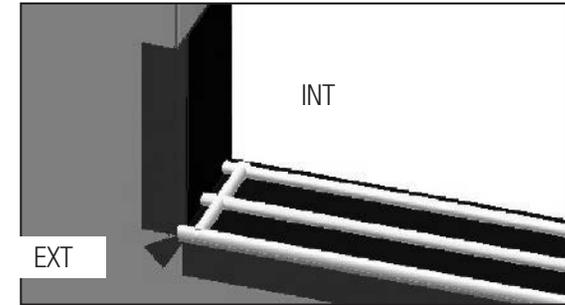


FIG. 12

- Set the door into the rough opening. Center the unit in the opening, making sure there are equal gaps on both sides of the door.
- Temporarily tack the door in place using 16d nails through the brickmould. Place the nails within 4" of each corner. Do not drive the nails in fully.
- Start with a shim at each corner no more than 1" from the jamb corner. Add additional shims spaced evenly from the center of the unit. Make sure shims are spaced no more than 16" apart. Use flat shims or pairs of triangle shims to ensure the jamb does not twist. (Fig. 13)
- Additional shims are required at each lock point, head shootbolt and hinge location for all operating doors. (Fig. 13)
- Nail all four corners in place through the brickmould.
- Finish nailing the door into place through the brickmould. Space the nails 8"-10" apart.

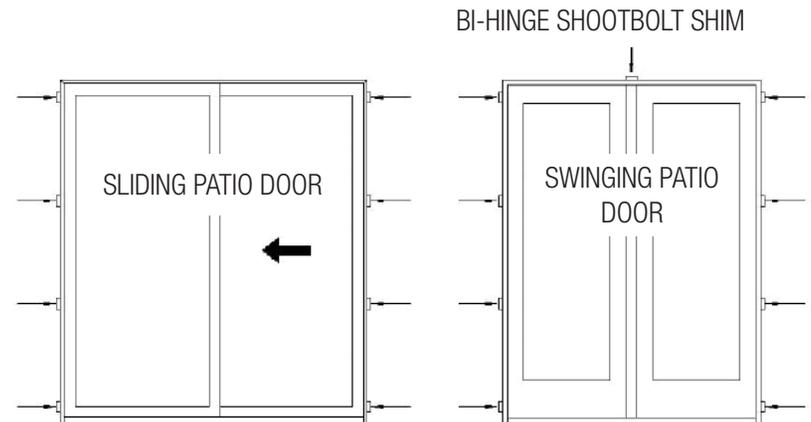


FIG. 13

Swinging Patio Doors

- L) Apply the supplied #10 x 2-1/4" screws through each hinge, securing the hinges and frame to the rough opening. Additional shims are required behind each hinge. (Fig. 14)

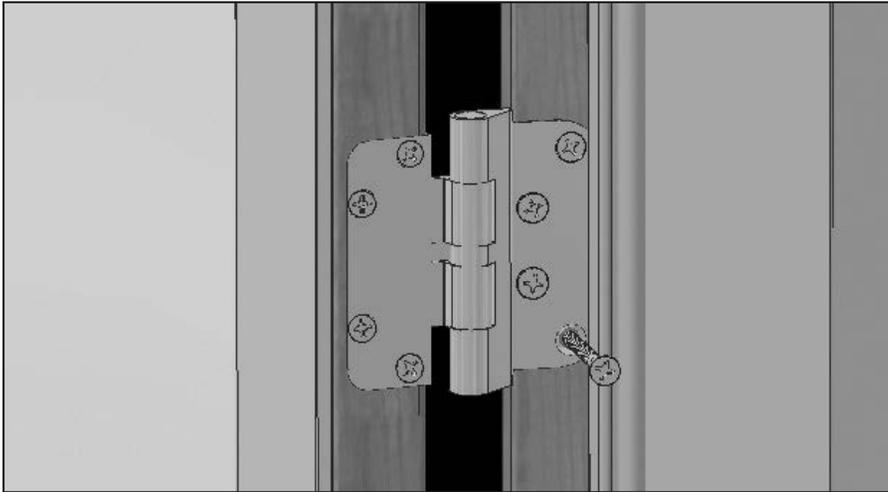


FIG. 14

Step 5: Verify Operation

- A) Verify the operation of the door is correct. By doing so you will verify that the door either swings or slides without binding on another member of the door and by remaining motionless throughout the operation when left in a static position.
- B) If the operation of the door is not correct, first verify that the rough opening is flat, plumb, level and square. Second, verify that the door is shimmed and fastened properly as stated in these instructions. Third, verify that the rollers and hinges are adjusted to the optimal position. Refer to Step 9: Completing the Installation and review the Care and Use Guide at www.trimlinewindows.com for further information on hardware adjustments. Also, a supplemental hinge adjustment sheet is included with the hinge and strike plate screwpack, which can be used as a quick reference guide.

Installation Fasteners			
Substrate	Fastener	Type of Steel	Minimum Embedment into Framing
Wood	16d Finish Nail	Galvanized, Stainless Steel, Zinc Plated	2"
Wood	#6 Wood Screw		2"
Steel	#8 Self Tap/Drill Screw		Fully Threaded

Step 6: Completing the Sill

- A) Attach a sill support block beneath the sill. Apply a bead of sealant at the nose of the sill and support block. Continue the bead of sealant around the bottom edge of the brickmould to the rough opening. (Fig. 15 & 16)

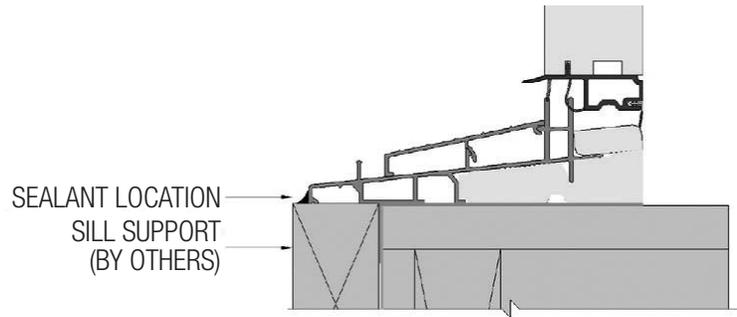


FIG. 15: STANDARD DOOR SILL

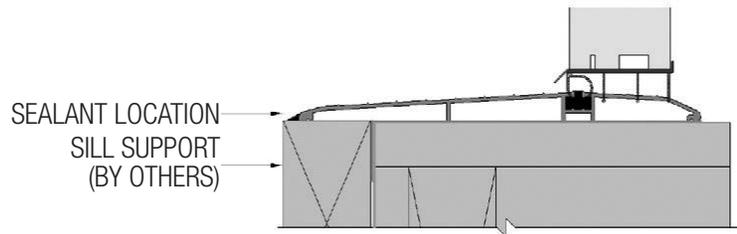


FIG. 16: HANDICAP DOOR SILL

- B) For in-swing patio doors: Apply silicone to seal each end of the sill cavity that protrudes out from the brickmould, including handicap sill. (Fig. 17)

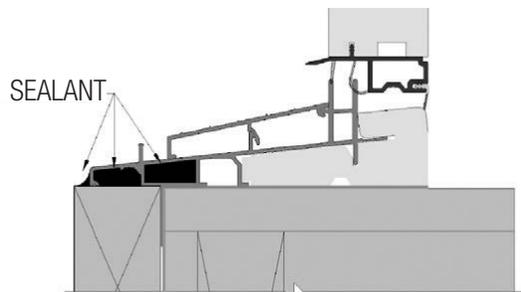


FIG. 17: IN-SWING DOOR SILL

Step 7: Complete Head Flashing

- A) Apply sealant: Apply a bead of sealant at the vertical and horizontal contact surface of the rigid metal flashing. (Fig. 18)
- B) Apply the rigid metal flashing. The flashing should extend approximately 1/8" past the edge of the brickmould on each side. Nail the flashing to the rough opening using at least a 1" roofing nail every 8"-10" approximately 1/2" from the top of the rigid flashing. Ensure that the nail is compatible with the rigid flashing material to prevent corrosion. (Fig. 18 & 19)
- C) Overlap the WRB over the rigid metal flashing. Trim the excess WRB beyond the bead of sealant. (Fig. 19)
- D) Tape the cut seams of the WRB. (Fig. 19)

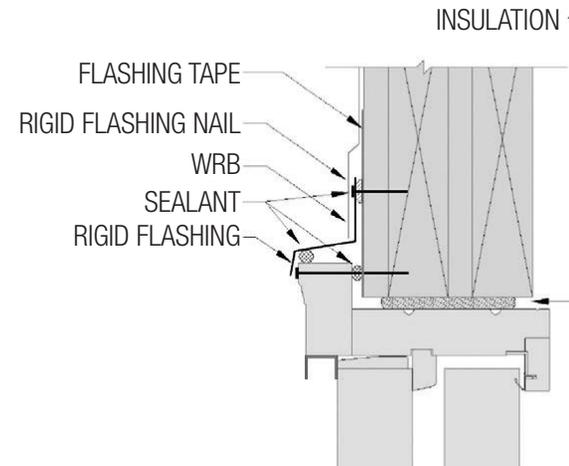
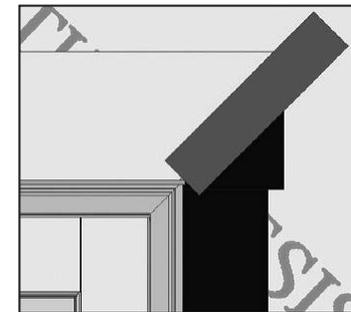


FIG. 18: HEAD JAMB



Note: Rigid flashing must run at least 1/8" past the brickmould.

FIG. 19

Step 8: Seal the Exterior

- A) After siding or wall exterior is complete, apply backer rod and sealant between the door frame and siding material on both sides. (Fig. 20)
- B) **WARNING:** Maintain a minimum of 1/4" between the door frame and any trim, siding or masonry. Failure to do so will forfeit all warranties (written or implied). Trimline will not be held responsible for any claims or damages resulting from failure to follow these instructions.

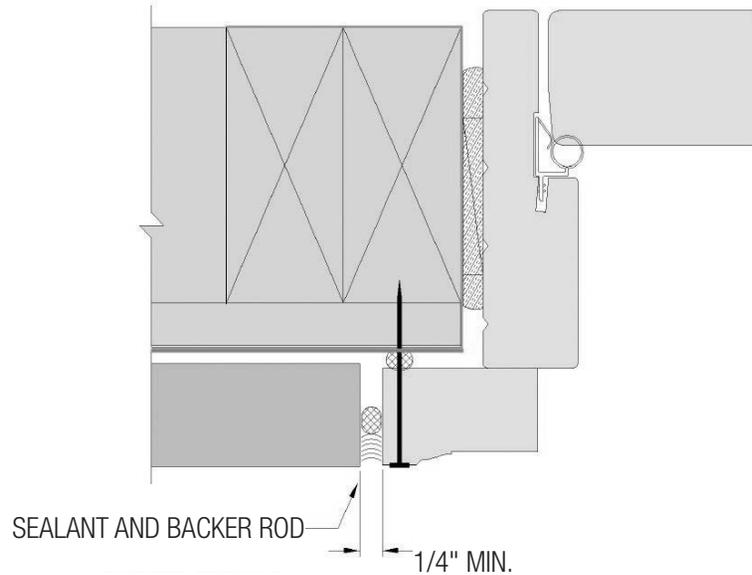


FIG. 20: SIDE JAMB

Step 9: Completing the Installation

- A) Remove all labels or shipping materials.
- B) Various hardware adjustments may be required after installation. See the Care and Use Guide located at www.trimlinewindows.com for further details.
- C) Sliding patio doors: After the operating panel and keeper are adjusted to the optimal position, apply the supplied #10 x 1-1/4" screws through the top and bottom holes of the keeper. Pre-drill the holes using a 1/8" bit prior to assembly. (Fig. 21)
- D) Insulate between the door frame and the rough opening using minimally expanding window and door spray foam insulation. Use caution to not overfill the gap, causing the jambs to bow. It is not recommended to apply trim to the unit until the foam has cured to allow the excess to escape. (Fig. 18 & 20)
- E) Operate door unit to ensure proper operation. The panel will not operate correctly if the door is out of square, over-shimmed or over-insulated.
- F) Properly finish all interior wood components within 60 days of installation. See the Care and Use Guide at www.trimlinewindows.com for further details on finishing Trimline primed doors.
- G) **IMPORTANT:** Do not stain or paint any hardware or vinyl components.
- H) Apply the handle set as appropriate per manufacturers' recommendations. Complete final adjustments as necessary.
- I) Sliding and swinging doors are to remain closed and locked during construction to prevent site conditions from damaging and/or warping panels and frames. Allow 10-12 weeks from project completion for building temperature and humidity levels to stabilize and door panels to acclimate.

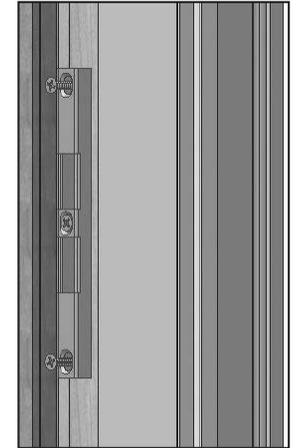


FIG. 21

CAUTION! READ BELOW BEFORE PAINTING

When painting cellular PVC products with darker paint colors (L values of 56 or below) UV irradiance can generate high localized temperatures in the product.

WARNING: Painting of any cellular PVC surface with a paint color darker than L value of 56 (where black = 0 and white = 100) will forfeit the product warranty.

If you should, despite the above warning, choose to use darker colors for cellular PVC paint, a paint specifically designed for these applications MUST be used. Contact the paint manufacturer to verify the paint's reflective properties and the suitability for painting cellular PVC.