THERMA-TRU® DOORS

THERMA-TRU DOORS

Builder, Subcontractor or Supplier:

Please forward these instructions to the homeowner.

The application performance standards for these products may be governed by the International Residential Code, International Building Code and other state and jurisdictional requirements. Copies of performance ratings are available on our website at www.thermatru.com.

Installation Instructions for Pre-hung Door Systems

These installation instructions are designed to assist door installers who have an understanding of carpentry principles, and know how to properly and safely use power tools. The purpose of these instructions is to illustrate how to install a Therma-Tru door system using methods and materials that help eliminate water related leaks. If the directions are closely followed, the door system will have a long useful life with good resistance to rain related water intrusion problems.

These methods are "tried and true" They are used widely by builders and remodelers who are serious about managing and keeping water outside the home. Rather than eliminate any steps that may be unclear to you, please call 1-800-THERMA-TRU and ask for clarification. If you remain unclear, please seek more professional assistance with the installation.

Different parts of the country have different code requirements, which may not be covered in these instructions. The installer is responsible for insuring the installation complies with local codes. If you have unique code requirements that do not appear please contact 1-800-THERMA-TRU.

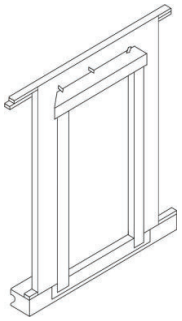
If disturbing existing paint, take proper precautions if lead paint is suspected (commonly used before 1979). For information regarding lead paint regulations, refer to www.epa.gov/lead.
For products being removed, always ensure that these products are properly disposed of or recycled in accordance with local jurisdictional requirements.

Required Tools & Materials: Tape measure, 6-foot and 2-foot level, framing square, at least 20 feet of string or twine and push pins, several tubes of high-quality hybrid polymer, elastomeric or polyurethane sealant (Therma-Tru recommends OSI QUAD MAX sealant for its adhesion strength and long-term durability across various building materials applications), caulking gun, step ladder, small pry bar, hammer, safety glasses, gloves, utility knife, punch or brad nailer, tin snips, electric drill or screw gun, two screw drivers (one Phillips and one flat-blade), composite or cedar shims, putty knifes, one stiff, one flexible, exterior grade number 8 x 2-1/2" screws, self-adhesive flashing tape, j-roller, rigid head flashing, closed cell low expansion polyurethane window and door foam (Therma-Tru recommends OSI QUAD FOAM because it surpasses our requirements and is available with a professional application gun, allowing multiple uses from one can of foam), proper foam application gun, foam cleaner and a rigid Therma-Tru sill pan. Exterior trim if needed.

Additional products may be required depending on your local building codes, so be sure to check with your building department and follow their guidelines

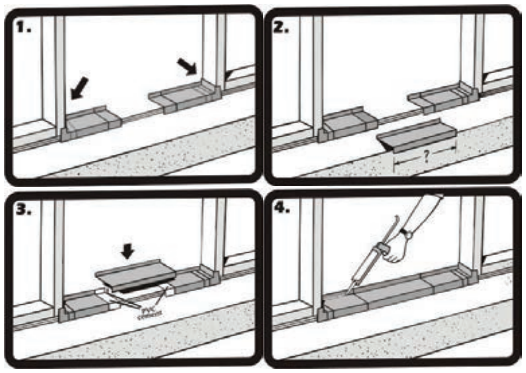
Read all instructions before starting.

Therma-Tru Recommended Best Practices



Use Water Resistive Barrier and Flexible Flashing: We recommend the use of a Water Resistive Barrier (WRB) applied to the exterior sheathing (OSB or other) and the use of an adhesive or flexible flashing product to seal around the opening. The WRB should be cut in the opening (follow manufacturer's guidelines) with the head of the flap taped up, to be sealed later in Step 11. The flashing should be applied in an overlapping manner as shown, always working from the bottom up (follow manufacturer's guidelines).

Use a Sill Pan: We recommend you first "dry fit" the sill pan in the opening, following the instructions furnished with the sill pan. Place the right and left sill pan ends tight against the sides of the opening. Check the center section for proper length and if necessary, cut with a hack saw or tin snips. Be sure to allow 2 inches of overlap at the joints.



Note: Use only the PVC cement provided in the sill pan kit to glue the pieces together. The sill pan must be sealed to the sub-floor using a high-quality hybrid polymer, elastomeric or polyurethane sealant; Therma-Tru recommends OSI QUAD MAX, but do not apply sealant to the bottom of the sill when using a sill pan.

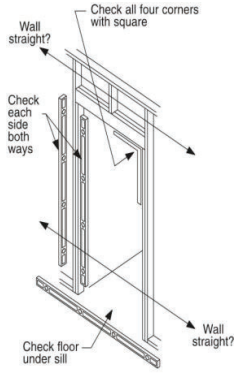
Step 1: Check Door Unit.

Check width and height.

Measure size of frame (width and height), not brickmould.

Remove cleats and packaging, but keep door fastened closed with transport clip. Do Not remove the transport clip until instructed to do so later in Step 7.

Step 2: Check and Prepare Opening.



Is the opening the correct size for the door unit? Check it against the door frame size now, before installation. The opening should be frame height plus 1/2 inch, and frame width plus 1/2 inch to 3/4 inch.
Fix any problems now.

Are the framing and walls **PLUMB**? Use a 6 foot level and check both sides of the opening, both ways (front to back and right to left).
Fix any problems now.

Is the sub floor level and solid? ***Provide a flat, level, clean weight bearing surface so the sill pan or sill can be properly caulked and sealed to the opening. Scrape sand or fill as required.***

Note: If additional floor covering clearance is required, attach the shim board to the sub floor. Be sure to caulk well under the shim board.

Is the opening square? Check all corners with a framing square. Double check by comparing diagonal measurements.
Fix any problems now.

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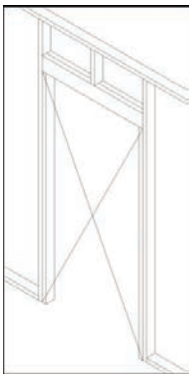
Step 2 cont.: Check and Prepare Opening.

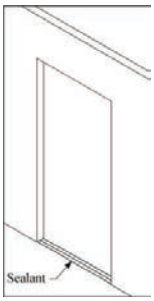


Check to be sure the framing walls around the opening are in the same plane. Do this by performing a "string test" for plumb.

String Test for Plumb: Attach a string diagonally across the opening from the outside, as shown. The string(s) should gently touch in the center, if not the opening is "out of plumb" by twice that distance and needs to be corrected. Flip the string over itself to check both planes. ***Fix any problems now.***

*An "out of plumb" condition is one of the most common reasons door units leak air and water.

Step 3: Caulk the Sub Floor.



On the sub floor at opening, place 3 very large beads of sealant. Run beads full width of the opening.

Use Only a high-quality hybrid polymer, elastomeric or polyurethane sealant; Therma-Tru recommends OSI QUAD MAX.

Use an Entire Tube when Caulking along the Sub Floor.

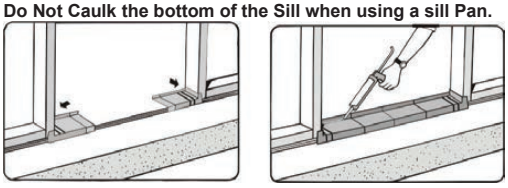
Step 3A: Installation with a Sill Pan.

Place the right and left sill pan ends onto the caulk beads and tightly against the side of the opening.

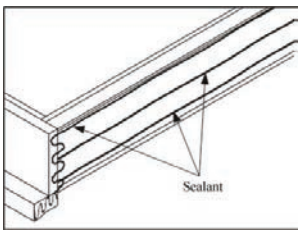
Then, liberally coat the overlapped areas and the recessed areas of the pieces with the PVC cement provided. Place center section(s) in position and hold pieces together long enough to ensure a good bond.

For added protection, spread a bead of caulk along the glue joints and to prevent air infiltration, run a bead of caulk along the lower interior edge of the sill pan. Additional caulking could affect the performance of the sill pan.

Do Not Caulk the bottom of the Sill when using a sill Pan.



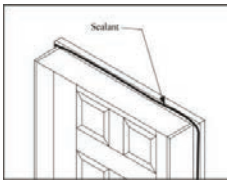
Step 3B: Installation without a Sill Pan.



Lay the door unit on edge or face so that the bottom surface of the sill can be caulked. Place very large beads of caulk across the full width of the sill. Additionally, place beads of caulk along the junction of the sill and the jamb and on the bottom surface of the jambs and brickmould.

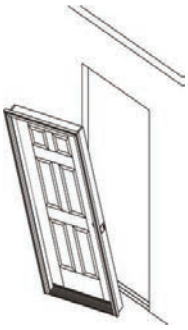
Note: If a sill extender is used, place a large bead of caulk at the junction of the extender and the sill approach.

Step 3C: Caulking Back side of Brickmould.



Important!
Apply sealant to the back side of brickmould around the entire perimeter of the door unit. A 1/2 – 5/8 inch bead of a high-quality hybrid polymer, elastomeric or polyurethane sealant is essential. Therma-Tru recommends OSI QUAD MAX.

Step 4: Place Unit in Opening, Temporarily Fasten, And Plumb Hinge Side Jamb.



Lift the unit up. With top edge tilted away from opening, center the unit and place sill down onto sill pan or caulk beads and tilt into opening.

For all door unit configurations, note the hinge locations and mark those locations on the jamb faces near the door surfaces. Pre-drill 1/8 inch diameter holes at these locations for screw placement. For Therma-Tru Composite Door Frame systems, also pre-drill 1/8 inch diameter holes between hinge locations on both jambs. A counter sink bit will help to conceal the screw heads, if not using provided hidden fastening system.

Install screws in the center pre-drilled hole locations on both jambs to *temporarily* secure the unit in the place. Do not drive screws completely in at this time. Use #8 X 2-1/2 inch or 3 inch exterior grade screws. If installing with provided hidden fastening system, install with provided screws.

Do Not Fasten through the Brickmould.

Work from side of the door that is weather-stripped. Use a 6 foot level and plumb the hinge side jamb both ways (right to left and inside to outside).

Place screws through the hinge side jamb into the studs, at each hinge location, as shown in the diagrams. For Therma-Tru Composite Door Frame systems, also place screws between hinge locations as shown in the diagrams. Use #8 X 2-1/2 inch or 3 inch exterior grade screws. If installing with provided hidden fastening system, install with provided screws.

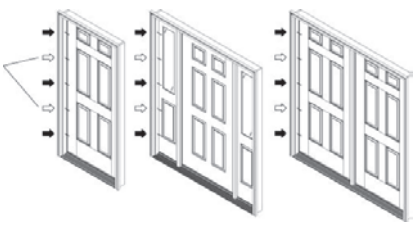
Do Not, drive the screws completely in at this time.

For Single or Double Doors, place screws at each location, so shims can be placed above screws. The screws will keep the shims from falling down while adjustments are being made.

For Double Door and Patio Units, fasten fixed or passive side of the unit first.

For Sidelite units, fasten the jamb on the hinge side of the door first.

Additional Screw Locations for Composite Frame



Single Unit Sidelite Unit Double Unit

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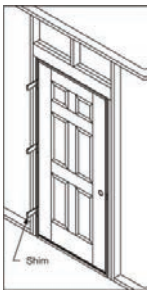
Step 5: Shim at Hinge Locations and Secure Hinge jamb.



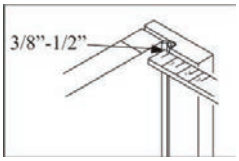
Leave door fastened and closed with transport clip.

Shim above screws, behind each hinge location, between the opening and the jamb.

Use a 6 foot level and re-check hinge jamb to ensure it is **plumb** and straight.

Finish driving screws tight in the middle first then top and bottom last.

Step 6: Adjust Rest of Frame and Fasten.



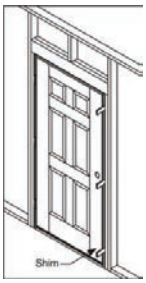
From the weatherstrip side of the door, check weatherstrip margins and contact.

Make frame adjustments so the weatherstrip contacts the door surface equally at the top, middle and bottom, an even 3/8 inch to 1/2 inch when fully closed.

Secure the lock side jamb with #8 X 2-1/2 or 3 inch screws through the pre-drilled holes at the top and bottom. **Do Not** drive screws tight at this time.

From the swing side of the door, shim above the screw locations and make adjustments so the margins between the door and frame are even top to bottom.

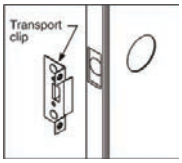
Note: For Double Doors, make adjustments that effect the alignment, margins and weatherstrip contact between the doors. Also follow the Astragal Site Package Instructions for details on properly setting the slide bolt hole locations.



Re-check everywhere for plumb and square, and an even weatherstrip contact.

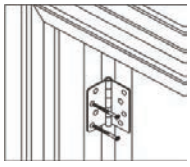
Finish driving all screws tight.

Step 7: Remove Transport Clip and Open Door.



Remove the transport clip.

Open and close door to check for smooth operation.

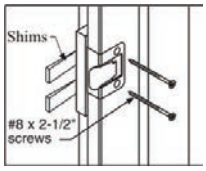


With the door open, drill 1/8 inch diameter pilot holes in the screw hole locations closest to the weather strip that were intentionally left blank. For the top hinge, if the holes are not left blank, remove the two screws closest to the weather strip. Then, install the #10 X 2-1/2 inch screws (provided) through the hinge, into the stud, to anchor the door frame and prevent sagging.

For Sidelite and Patio Units: With the door open, check to determine if the 2-1/2 inch long hinge screws were pre-installed in the hinges. If not, drill 1/8 inch diameter pilot holes and install the long hinge screws in the hole locations closest to the weatherstrip.

Close the door and carefully shim between the jamb and the opening behind the adjustable strike plate area.

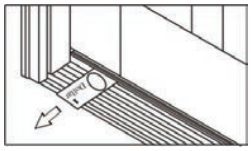
Then open the door and drill 1/8 inch dia. pilot holes and install the #8 X 2-1/2 inch screws (provided) through the strike plate holes to secure the lock side jamb and provide security.



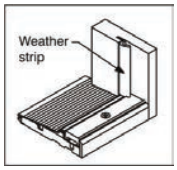
Adjust strike plate in or out for proper weatherstrip contact and door operation, then finish tightening screws.

Step 8: Adjust Sill.

Your door unit may have an adjustable threshold cap. When properly adjusted, it should be snug and slightly difficult to pull a dollar bill out from under the door when it is fully closed. The dollar bill should be able to be removed without tearing**.**



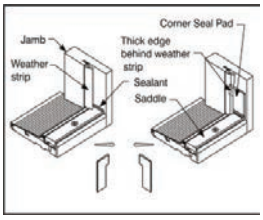
This check should be performed at each adjustment screw location.



After adjusting the threshold cap, ensure that the weatherstrip is ***flush*** with the top of the threshold cap. Trim as necessary.

Step 9: Install Corner Seal Pads – Inswing units Only.

Apply sealant (a high-quality hybrid polymer, elastomeric or polyurethane sealant; Therma-Tru recommends OSI QUAD MAX.) at the joint where the threshold cap meets the door jambs.



Remove the self-stick paper from the corner seal pads and apply to the door jamb, with the ***bottom*** lined up evenly with the top of the threshold cap. When the pad is correctly installed, the tab is on top and the narrow part is on the bottom.

The bottom of the pad is the same width of the threshold cap to help with alignment during installation.

Step 10: Additional Frame Anchoring.

If sill is prepared for anchoring screws, place appropriate screws through the sill into the sub floor where needed. (Primarily on Outswing Sills)

We recommend that you provide additional frame anchoring as shown here. Certain states or jurisdictions, notably Florida and the coast of Texas, have specific installation requirements and may require installation in strict accordance with the product approval for a specific product. You should always check with the local authority having jurisdiction for any specific installation requirements that may apply. Specific product approval installation instructions, including those required for the High Velocity Zone (HVHZ), are also available at www.thermatru.com

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Pre-Hung Unit Installation

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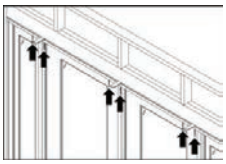
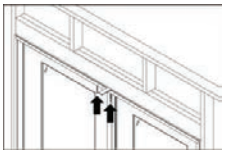
Step 10 cont.: Additional Frame Anchoring.



For units with Mull Post (s):

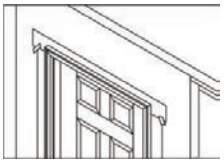
Shim above mull post (s), Pre-drill and insert a screw through the frame into the header, on each side of the mull post (s). If installing with provided hidden fastening system, install with provided screws.



For Double Doors:

Place temporary shims above the center of the head frame, where doors meet. Insert screws into the strike plate and into the header, then remove the temporary shims. If installing with provided hidden fastening system, install with provided screws.

Step 11: Weatherproof, Finish and Maintain.



Provide and maintain a properly installed cap or head flashing to protect top of surfaces from **Water intrusion** and damage. Tape and properly seal the top flap of the Water Resistive Barrier (WRB) over the head flashing.

Caulk around **entire** "weather" side of unit, sealing along the brickmould to the flashing material or siding and seal all joints between the jambs and moldings.

Seal the joints between the exterior hardware trim and the door face to **prevent** air and water infiltration.

Place and set galvanized finish nails through the brickmould around the perimeter. Use exterior grade screws if you are installing a storm door to the brickmould. Countersink all fasteners and cover with exterior grade putty.

Use a low expansion window and door foam in the cavity between the opening and unit to reduce **air & water infiltration** and **heat transfer.** Therma-Tru recommends OSI QUAD FOAM.

All Therma-Tru Steel doors must be finished within several days of the installation date for continued warranty coverage. For Fiberglass doors the finishing requirement is within 6 months of installation.

Paint or stain according to Therma Tru Finishing instructions. Do Not paint or stain the weatherstrip, it is "friction-fit" and easily removed for painting or staining.

All 6 sides of the doors must be finished. For out-swing doors the sides, top and bottom must be inspected and maintained as regularly as all other surfaces.

All bare wood surfaces such as the door frame exposed to weather should be primed and painted or stained and top coated ***within*** two weeks of exposure for best performance.

Maintain or replace sealants and finishes as soon as any deterioration is evident. For semi-gloss or glossy paint or clear coats, do this when the surface becomes dull or rough. More severe climates and exposures will require more frequent maintenance.

Access our website www.thermatru.com for printable versions of the installation and Same Day Stain finishing instructions and to view our Troubleshooting video for minor installation issues and adjustments.

Finishing Instructions.

Work only when temperatures are between 50°and 90°F and with humidity less than 85%. Do not finish in direct sunlight.

Steel and Smooth-Star® Doors:
To paint Doors: Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Mask off hardware, glass and remove weatherstripping before painting. Use high-quality acrylic latex house paint, following manufacturer's directions for application. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Paint Doorlite Frames:
Remove any excess glass glazing sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the glazing along the edge of the frame. Holding the razor blade at a 45 degree angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits. Clean frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely. Mask off glass. Prime door lite frames with an alkyd- or acrylic-based primer. Allow primer to dry before applying finish paint coats. Use high-quality acrylic latex house paint, following manufacturer's application instructions. Use exterior grade finishes for outside surfaces.

Classic-Craft® and Fiber-Classic® Doors:
To Finish Doorlite Frames and Panel Inserts:
Remove any excess glazing sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the glazing along the edge of the frame. Holding the razor blade at a 45° angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits. Mask off glass. Paint or stain using same materials as for the door. (See below).

To Paint Doors:
Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Prime with an alkyd- or acrylic-based primer. Allow primer to dry completely, then paint with acrylic latex house paint, following paint manufacturer's application instructions. Use a primer and paint that are compatible. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Stain Doors:
Clean first with a clean cloth and mineral spirits and allow to air dry or wash door with mild detergent and water, or a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. For stained surfaces, we only recommend the use of the stain and clear coat products found in the **Therma-Tru Same-Day Stain™ Finishing Kit**. Apply stain with a rag. The longer the stain is left to "setup" before wiping off, the darker the color will be. Using a clean rag, wipe off the stain to the color shade you desire. Remove any excess stain from the panel grooves with the foam brush provided; allow the stain to dry for at least 6 hours before applying topcoat. See **Therma-Tru Same-Day Stain™ Finishing Kit** instructions for complete details.

Therma-Tru Composite Door Frame Components:
To Paint Therma-Tru Composite Door Frame Components:
Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Mask off hardware and remove weatherstripping before painting. Use high-quality acrylic latex house paint, following manufacturer's directions for application. Use exterior grade finishes for outside surfaces.

To Stain Therma-Tru Composite Door Frame Components:
Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. For stained surfaces, we only recommend the use of the stain and clear coat products found in the **Therma-Tru Same-Day Stain™ Finishing Kit.** Apply stain with a rag. The longer the stain is left to "setup" before wiping off, the darker the color will be. Using a clean rag, wipe off the stain to the color shade you desire. Allow the stain to dry for at least 6 hours before applying topcoat. See **Therma-Tru Same-Day Stain™ Finishing Kit** instructions for complete details.

For California Residents only

⚠ WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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Constructor, subcontratista o proveedor:

Entregue estas instrucciones al propietario.

Los estándares en la aplicación de estos productos están regidos por el Código Residencial Internacional, el Código de Construcción Internacional y por otras normas estatales o jurisdiccionales. Copias de la clasificación de rendimiento están disponibles en nuestro sitio Web www.thermatru.com.

Instrucciones para la instalación de Sistemas de Puertas Pre-fabricadas

Estas instrucciones de instalación están diseñadas para ayudar a instaladores de puertas que ya cuentan con conocimiento previo de carpintería y saben usar herramientas eléctricas de una manera adecuada y segura. El propósito de estas instrucciones es mostrar la manera de instalar un sistema de puertas Therma-Tru mediante el uso de métodos y materiales que ayuden a prevenir filtraciones de agua hacia el interior de la casa. Seguir éstas instrucciones de manera adecuada alargará la vida útil del producto y reducirá los problemas relacionados con filtraciones de agua de lluvia.

Estos métodos estan “comprobados” y se utilizan frecuentemente por constructores y remodeladores profesionales para mantener el agua fuera de la casa. Le recomendamos que si alguno de los pasos no es lo suficientemente claro, no lo omita, llame al 1-800-THERMA-TRU y pida que le aclaren su duda. Si aun así el procedimiento no está claro, por favor busque ayuda profesional para la instalación.

Los códigos de construcción varían dependiendo de la región del país, por lo que puede darse el caso que algunos no estén cubiertos en estas instrucciones. El instalador es el responsable de garantizar que la instalación cumpla con todos los códigos de construcción locales. Si su caso presenta códigos de construcción únicos, por favor llame al 1-800-THERMA-TRU.

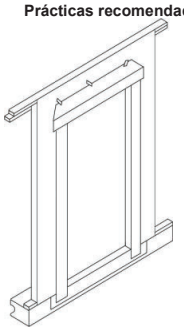
Si sospecha que en su casa existiese algún riesgo relacionado con pintura a base de plomo (comúnmente utilizada antes de 1979), tome las medidas apropiadas. Para obtener mayor información sobre pintura a base de plomo, visite www.epa.gov/lead. Asegúrese que los desechos sean manejados correctamente o reciclados de acuerdo con los requerimientos de la jurisdicción local.

Herramientas y materiales necesarios para la instalación: Cinta métrica, nivel de 6 y 2 pies, escuadra, al menos 20 pies de hilo o cordel y chinchetas, suficientes tubos de sellador a base de polímero híbrido de alta calidad, sellador de elastómero o poliuretano (Therma-Tru recomienda el sellador “QUAD Max” de la marca OSI, por su fuerza de adherencia y durabilidad a largo plazo en diversas aplicaciones de materiales para construcción), pistola para sellador, escalera, barra de palanca pequeña, martillo, lentes de seguridad, guantes, navaja utilitaria, pistola de clavos, tijeras para hojalata, taladro eléctrico o pistola de tornillos, dos desarmadores (uno Phillips y uno plano), cuñas compuestas o de madera, espátulas para masilla (una rígida y otra flexible), tornillos de grado exterior número #8 x 2-1/2”, cinta autoadhesiva a prueba de agua, rodillo tipo “J”, solera rígida, espuma de poliuretano de baja expansión para ventanas (Therma-Tru recomienda “QUAD Foam” de la marca OSI ya que supera nuestros requisitos y está disponible con una pistola de aplicación profesional y se puede reutilizar), pistola para aplicar espuma, limpiador para espuma y una bandeja rígida de Therma-Tru. Moldura para uso exterior si es necesaria.

Es posible que se requieran componentes adicionales para cumplir con los códigos de construcción locales, asegúrese de consultar con su departamento de construcción para seguir sus lineamientos y recomendaciones.

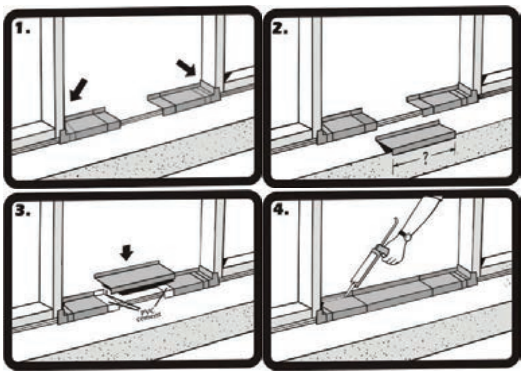
Lea todas las instrucciones antes de comenzar.

Prácticas recomendadas por Therma-Tru



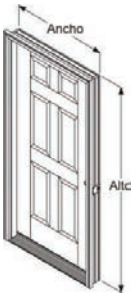
Use forros resistentes al agua y cinta autoadhesiva flexible a prueba de agua: Se recomienda utilizar forros resistentes al agua sobre el revestimiento exterior (OSB u otras), y el uso de algún producto adhesivo o cinta autoadhesiva flexible para sellar el perímetro de la abertura. Se debe cortar el forro resistente al agua sobre la abertura de la puerta (siga los lineamientos del fabricante) creando un fleje que debe sostenerse momentáneamente con cinta adhesiva en la parte superior, la cual se sellará más adelante en el paso 11 (siga las instrucciones del fabricante).

Instalación de kit de solera inferior: recomendamos que primero compruebe que la solera calce en la abertura siguiendo las instrucciones del fabricante. Coloque primero los extremos derecho e izquierdo de la solera contra los costados de la abertura. Compruebe que la sección central tenga el largo adecuado y de ser necesario, córtela con una sierra de mano o tijeras para hojalata. Asegúrese de dejar 2 pulgadas de traslape en cada una.



Nota: Use solo el cemento de PVC provisto en el kit de la solera inferior para pegar las piezas. Para sellar la solera inferior con el piso utilice un sellador de polímero híbrido, elastómero, o de poliuretano de alta calidad; Therma-Tru recomienda Quad Max de la marca OSI. No aplique sellador a la parte baja de la solera inferior.

Paso 1: Revisión de la puerta.



Revise las dimensiones de ancho y alto.

Mida el tamaño del marco de la puerta (ancho y alto), no de la moldura exterior.

Retire el empaque junto con las tablillas y mantenga la puerta cerrada con el sujetador/pasador de transporte para evitar que se abra durante su manejo. No retire el sujetador/pasador de transporte hasta que se le indique en el paso 7.

Paso 2: Revisión y preparación de la abertura.

¿La abertura es del tamaño correcto para la puerta? Antes de seguir con la instalación, compare la abertura con el tamaño del marco de la puerta. La abertura debe ser del alto del marco más 1.27 cm y el ancho debe ser la medida del marco más 1.27 a 1.91 cm. ***Resuelva cualquier problema de dimensiones antes de continuar.***

Los marcos y las paredes deben estar **VERTICALES**. Use un nivel de 6 pies y revise a ambos lados de la abertura, del frente hacia atrás y de derecha a izquierda. ***Resuelva cualquier problema de nivelación en este momento***.

El suelo debe estar nivelado y sólido. ***Debe proporcionarse una superficie plana, nivelada y limpia que soporte el peso, de manera que se pueda aplicar correctamente la masilla de calafateo a la solera inferior y que está pueda estar bien sellada con la abertura usando revestimiento para alféizar. Raspe, lije o rellene según se necesite***.

Nota: si se necesita cubrir un claro de la abertura en el piso, fije la tabla de calza al suelo. Asegúrese de calafatear apropiadamente bajo la tabla de calza.

¿La abertura está encuadrada? Revise las 4 esquinas con una escuadra de enmarcar. Revise dos veces comparando las medidas diagonales. ***Resuelva cualquier problema en este momento.***

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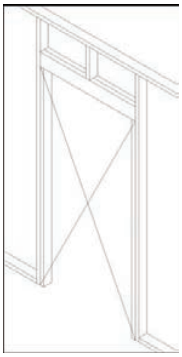
Paso 2, cont.: Revisión y preparación de la abertura.

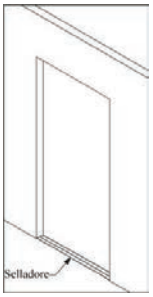


Las paredes que enmarcan el perímetro de la abertura deben están en el mismo plano. Revíselo realizando una prueba con un cordel.

¿Cómo realizar la prueba? Coloque un cordel que cruce diagonalmente la abertura (del lado exterior de la puerta), como se muestra en la figura. Los cordeles se deben tocar suavemente en el centro, de lo contrario, la abertura está "fuera de plano" y se debe corregir. Voltee el cordel sobre sí mismo para verificar ambos planos. ***Resuelva cualquier problema en este momento.***

*El estado "fuera de plano" es una de las razones más comunes por las que las puertas sufren fugas de aire y agua.

Paso 3: Aplicación de masilla de calafateo en el suelo.



Coloque 3 cordones gruesos de masilla de calafateo en el suelo de la abertura. Extienda los cordones hasta alcanzar el ancho total de la abertura.

Use únicamente sellador híbrido de polímero, elastómero o poliuretano de alta calidad;

Therma-Tru recomienda OSI QUAD MAX.

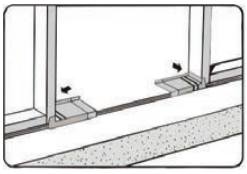
Paso 3A: Instalación con un kit de revestimiento de solera inferior.

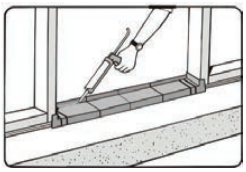
Coloque los extremos derecho e izquierdo del revestimiento de la solera en los cordones de masilla de calafateo y presione firmemente contra el costado de la abertura.

Luego, aplique una cantidad generosa de cemento PVC (ya incluido) en las áreas de traslape de las piezas del revestimiento de la solera. Coloque la(s) sección(es) central(es) en posición y mantenga juntas las piezas el tiempo suficiente para asegurar una buena adhesión.

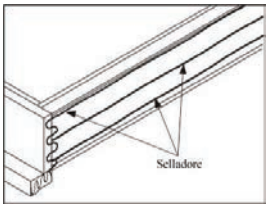
Para obtener protección adicional, aplique un cordón de masilla de calafateo a lo largo de las uniones de adhesivo y, para evitar la filtración de aire, extienda un cordón de masilla de calafateo a lo largo del borde interior inferior del revestimiento de la solera. Aplicar masilla de calafateo en exceso puede afectar la efectividad de la solera.

Cuando instale un kit de revestimiento de solera inferior,
No calafatee la parte inferior de la solera de la puerta.





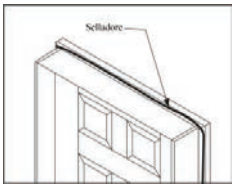
Paso 3B: Instalación sin un kit de revestimiento de solera inferior.



Apoye la puerta sobre su borde o una de las caras, de manera que se pueda calafatear la superficie inferior de la misma. Aplique cordones de masilla de calafateo gruesos a lo largo y ancho de la superficie inferior de la puerta. También coloque cordones de masilla de calafateo a lo largo de las uniones de la solera con el marco de la puerta, y entre el marco y la abertura.

Nota: si usa una extensión de la solera, aplique masilla de calafateo en la unión de la extensión y la solera.

Paso 3C: Calafateo de la parte posterior de la abertura.



¡Importante!
Aplique un cordón de sellador de 1.27 a 1.59 cm en la parte posterior de la abertura alrededor de todo el perímetro de la unidad de la puerta. Use sellador híbrido de polímero, elastómero o poliuretano de alta calidad. Therma-Tru recomienda
OSI QUAD MAX.

Paso 4: Coloque la unidad en la abertura y fije temporalmente. Nivelación del lado de las bisagras y el marco.

Levante la unidad. Con el borde superior inclinado, aléjelo de la abertura, centre la unidad y coloque el borde inferior de la puerta en la solera inferior o en los cordones de masilla de calafateo, luego inclínelo hacia la abertura.

Tenga presente la ubicación de las bisagras y marque su posición en el marco. Pretaladre orificios de 0.32 cm de diámetro en estas ubicaciones para colocar los tornillos. Para los sistemas de marco de puerta compuestos Therma-Tru, también taladre agujeros de diámetro de 0.32 cm entre las ubicaciones de las bisagras en ambas jambas. Si no utiliza el sistema de sujeción oculto proporcionado, puede ocultar las cabezas de los tornillos si usa una broca para avellanar.

Instale los tornillos en la ubicación del orificio central pretaladrado de ambos marcos para asegurar la unidad *temporalmente* en su lugar. No atornille completamente en este momento. Use tornillos para exteriores de #8 X 2-1/2 ó 3 pulgadas. Si se instala con el sistema de sujeción oculto suministrado,
Instale con los tornillos proporcionados.

No atornille en la abertura.

Comience a trabajar del lado de la puerta en que está el empaque (weather-strip). Use un nivel de 6 pies y nivele el marco del lado de las bisagras, de derecha a izquierda y del interior al exterior.

Pase los tornillos a través del marco (lado de las bisagras) y las vigas, hágalo en cada una de las ubicaciones de las bisagras tal y como se muestra en los diagramas. Para los sistemas de marco de puerta compuestos Therma-Tru,
también Coloque tornillos entre las ubicaciones de las bisagras como se muestra en los diagramas. Use tornillos para exteriores de #8 X 2-1/2 ó 3 pulgadas. Si se instala con el sistema de sujeción oculto suministrado, Instale con los tornillos proporcionados.

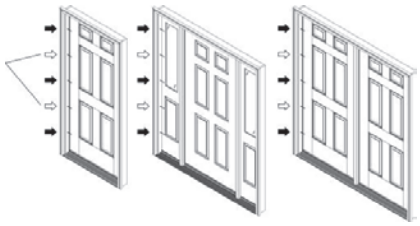
No apriete los tornillos completamente en este momento.

Para puertas individuales o dobles Coloque los tornillos en cada la ubicación así que las cuñas se pueden colocar por encima de tornillos. Los tornillos evitarán que las calzas se caigan mientras se realizan ajustes.

En el caso de las unidades de Puerta Doble y para Patio, apriete primero el lado fijo o pasivo de la unidad.

En el caso de las unidades con Vidrieras Laterales, apriete el marco contra el lado de las bisagras de la puerta.

Ubicaciones de tornillo adicionales para bastidor compuesto



Unidad Simple Unidad con Vidriera Lateral Unidad Doble

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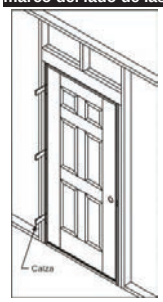
Paso 5: Coloque las calzas en las ubicaciones de las bisagras y asegure el marco del lado de las bisagras.



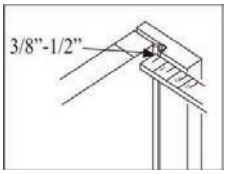
Fije la puerta, cerrada con el sujetador para transporte.

Coloque calzas arriba de los tornillos, detrás de cada ubicación de las bisagras, y entre la abertura y el marco.

Use un nivel de 6 pies para verificar el marco del lado de las bisagras. Asegúrese que está **nivelado** y recto.

Termine de apretar los tornillos. Primero los de en medio, luego los de la parte superior y finalmente los de la parte inferior.

Paso 6: Ajuste el resto del marco y apriete.



Desde el lado de la puerta en que está el empaque, verifique el que éste haga contacto a lo largo de la puerta y sus márgenes.

Haga ajustes al marco para que el empaque siempre haga contacto con la puerta y de la misma manera tanto en la parte de arriba, en medio y abajo de la puerta. Debe haber un claro de 3/8" a 1/2" cuando la puerta está bien cerrada.

Asegure el marco del lado del seguro con tornillos de #8 X 2-1/2 ó 3 pulgadas a través de los orificios pretaladrados en la parte superior e inferior. **No** apriete los tornillos en este momento.

En el lado del seguro de la puerta coloque calzas arriba de la ubicación de los tornillos y realice ajustes de manera que los márgenes entre la puerta y el marco queden parejos desde la parte superior a la inferior.

Nota: en el caso de las Puertas Dobles, realice ajustes sobre la alineación, los márgenes y el contacto del empaque entre las puertas. Además, siga las instrucciones del sitio de Astragal para obtener detalles sobre la configuración adecuada de la ubicación de los orificios para el cerrojo.

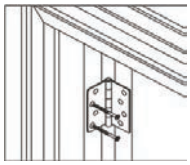
Verifique nuevamente que la puerta esté nivelada, encuadrada y que los empaques hace contacto apropiadamente.

Termine de apretar todos los tornillos.

Paso 7: Retire el sujetador para transporte y abra la puerta.

Retire el sujetador para transporte.

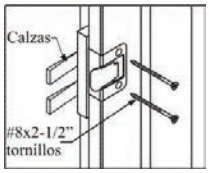
Abra y cierre la puerta para verificar que funciona correctamente.



Con la puerta abierta, taladre orificios guía de 0.32 cm de diámetro en los 2 orificios para tornillos más cercanas al empaque en las bisagras. Asegúrese que en estos dos orificios no haya algún tornillo, en caso contrario, remueva esos tornillos e instale los tornillos de #10 X 2-1/2 pulgadas (incluidos) a través de la bisagra y hasta la viga, anclando así el marco de la puerta y evitando que la puerta quede suelta o se "cuelgue".

Para unidades con Vidriera Lateral y para Patio: con la puerta abierta, verifique si se instalaron previamente los tornillos para bisagra largos de 2-1/2" en las bisagras. De no ser así, taladre orificios guía de 0.32 cm de diámetro e instale los tornillos largos para bisagra en las ubicaciones de orificio más cercanas al empaque.

Cierre la puerta y coloque calzas entre el marco y la abertura, justo detrás del área de la cerradura de seguridad ajustable.

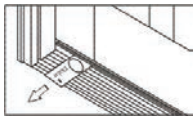


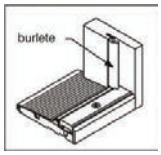
Luego, abra la puerta y taladre orificios guía de 0.32 cm de diámetro e instale los tornillos de #8 X 2-1/2 pulgadas (incluidos) a través de los orificios de la cerradura para asegurar el marco del lado del seguro.

Ajuste la cerradura hacia adentro o afuera asegurando que el empaque haga contacto de manera apropiada y que la puerta funcione correctamente, luego termine de apretar los tornillos.

Paso 8: Cubierta de umbral ajustable.

Es posible que su puerta tenga una cubierta para umbral ajustable. Cuando se ajusta de manera adecuada, la puerta debe quedar justa de manera que no sea fácil jalar un billete de un dólar por debajo de ella cuando está bien cerrada. Se debe poder retirar el billete de un dólar sin rasgarlo.



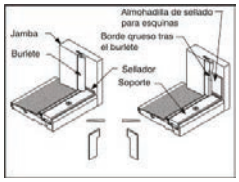


Esta verificación debe realizarse en cada lugar donde hay tornillos de ajuste.

Después de ajustar la cubierta de umbral, asegúrese de que el empaque (burlete) está ***al ras*** con la parte superior de la cubierta para umbral. Recorte si es necesario.

Paso 9: Instalación de almohadillas de sellado para esquinas: sólo para unidades que se abren hacia adentro.

Aplique sellador (sellador híbrido de polímero, elastómero o poliuretano de alta calidad; Therma-Tru recomienda OSI QUAD MAX.) en la unión entre la cubierta de umbral ajustable y el marco de la puerta.



Retire el papel autoadhesivo de las almohadillas de sellado para esquinas y aplíquelas al marco de la puerta, alineando d la *parte inferior* de la almohadilla con la parte superior de la cubierta de umbral ajustable. Cuando la almohadilla se instala correctamente, la parte ancha estar arriba y la parte estrecha abajo.

La parte inferior (estrecha) de la almohadilla tiene el mismo ancho que la cubierta de umbral ajustable para ayudar a alinearlas durante la instalación.

Paso 10: Anclaje adicional del marco.

Si la cubierta de umbral ajustable cuenta con preparación para tornillos de anclaje, instale los tornillos a través de la cubierta de umbral, hasta el suelo de ser necesario. (Principalmente en cubiertas de umbral para apertura hacia afuera).

Le recomendamos proporcionar anclaje adicional al marco, como lo mostramos aquí. Algunos estados o jurisdicciones, como es el caso de Florida y la costa de Texas, cuentan con normativas de instalación específicas y pueden requerir que la instalación se haga de estricto acuerdo con la aprobación de producto para un producto en específico. Usted siempre debe verificar con la autoridad local que tenga jurisdicción, si existe alguna normativa de instalación específica que pueda aplicar. Las instrucciones de instalación para la aprobación de un producto específico, incluyendo las requeridas por la High Velocity Zone (HVHZ) están también disponibles en www.thermatru.com.

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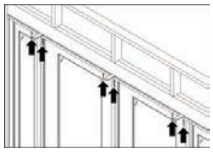
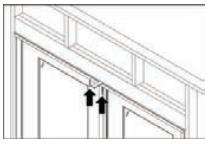
Paso 10, cont.: Anclaje adicional del marco.



Para unidades con poste (s) Mull:

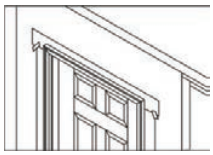
Cuña sobre el poste (s) de Mull, Pre-taladre e inserte un tornillo a través del marco en la cabecera, a cada lado del poste (s) del Mull. Si se instala con el sistema de sujeción oculto suministrado, Instale con los tornillos proporcionados.



Para Puertas dobles:

Coloque la cuña temporal sobre el centro del bastidor de la cabeza, Donde las puertas cierran. Inserte los tornillos en la placa de en la cabecera, a continuación, quite las cuñas temporales. Si se instala con el sistema de sujeción oculto suministrado, Instale con los tornillos proporcionados.

Paso 11: Diseño e instalación robusta a condiciones ambientales. Acabado y mantenimiento.



Aplique cinta autoadhesiva flexible para proteger superficies en la parte superior, esto evitará que el agua entre al inmueble o que haya daños. Coloque la cinta adhesiva en la parte superior de la lengüeta de la barrera resistente al agua (WRB).

Calafatee alrededor de **todo** el lado exterior de la unidad, sellando a lo largo de la moldura hasta el material de tapajuntas o los revestimientos y selle todas las uniones entre el marco y las molduras.

Selle las uniones de la estructura que sujeta a la unidad y toda la orilla de la unidad para **prevenir** filtración de aire y agua.

Coloque clavos galvanizados en el perímetro de la abertura. Si está instalando Puertas de Tormenta entonces utilice tornillos para exterior. Asegure que todos los clavos o tornillos utilizados estén al ras de la superficie y cúbralos con masilla para exteriores.

Utilice una pequeña expansión, ventana y puerta, espuma para aislar, en el claro que pueda quedar entre la abertura y la unidad de la puerta, a fin de **prevenir filtracion de aire y agua y reducir la transferencia de calor**. Therma-Tru recomienda OSI QUAD FOAM.

Las puertas de acero Therma Tru deben tener su acabado (pintura) a los pocos días de haberse instalado para que la garantía sea válida. Para puertas de fibra de vidrio, el acabado debe darse dentro de los 6 meses después de la instalación.

Pinte o tiña de acuerdo con las instrucciones de acabado de Therma Tru. No pinte ni tiña el empaque, debe quitarse y volverse a colocar en su posición después de pintar o teñir la puerta.

Debe pintarse o teñirse los 6 lados de la puerta. Las puertas ***que se abren hacia afuera*** deben inspeccionarse regularmente y dar mantenimiento si es necesario.

A todas las superficies de madera que puedan quedar expuestas a la intemperie, como el marco de la puerta, se les debe aplicar sellador, pintura o mancha y una capa superior antes de las dos semanas de su instalación para un mejor funcionamiento.

Dé mantenimiento y/o reemplace los selladores y acabados tan pronto el deterioro sea evidente. En el caso de la pintura brillante o semibrillante y de las capas transparentes, hágalo cuando la superficie se vuelva opaca o áspera. El mantenimiento debe ser más frecuente en climas más rigurosos.

Ingrese a nuestro sitio Web www.thermatru.com para acceder a los manuales de instalación, instrucciones de “Acabado y Teñido en el mismo día” y para ver nuestro vídeo de solución de problemas y ajustes menores de instalación.

Instrucciones para el Acabado:

Trabaje sólo cuando la temperaturas ambiental se encuentren entre 10 y 32.2ºC (50 ay 90F) y la humedad relativa sea menor a 85%. No aplique acabados bajo la luz solar directa.

Puertas de Acero y Smooth-Star®

Para pintar puertas: primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. Proteja los accesorios, los vidrios y remueva los empaques antes de pintar. Use pintura de látex acrílico de alta calidad para casas y siga las instrucciones del fabricante para su aplicación. En las superficies que dan al exterior use pintura para exteriores. Pinte los bordes y los extremos expuestos de la puerta.

Para pintar los marcos de los vidrios: Primero retire cualquier exceso de sellador rociando limpiador de ventanas o agua. Use una navaja de un solo filo para remover sellador a lo largo del borde del marco. Remueva el sellador sosteniendo la cuchilla de la navaja en un ángulo de 45 grados. Retire los residuos con un limpiador de ventanas o aguarrás mineral. Limpie el marco con un detergente suave y agua o use una solución de TSP. Enjuague bien y deje secar completamente. Cubra el vidrio. Aplique una pintura base de resina alquídica o acrílica a los marcos de los vidrios. Deje secar la pintura base antes de aplicar las capas de pintura del acabado. Use pintura de látex acrílico de alta calidad para casas y siga las instrucciones del fabricante para su aplicación. En las superficies que dan al exterior use pintura para exteriores.

Puertas Classic-Craft® y Fiber-Classic®:

Para dar acabado a los marcos de los vidrios y a accesorios para paneles: Primero retire cualquier exceso de sellador rociando limpiador de ventanas o agua. Use una navaja de un solo filo para remover sellador a lo largo del borde del marco. Remueva el sellador sosteniendo la cuchilla de la navaja en un ángulo de 45 grados. Retire los residuos con un limpiador de ventanas o aguarrás mineral. Proteja el vidrio. En las superficies que dan al exterior use pintura para exteriores (vea abajo.)

Para pintar puertas:
primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. Aplique una pintura base de resina alquídica o acrílica. Deje que la pintura base seque completamente, luego, pinte con pintura látex para casas siguiendo las instrucciones del fabricante para su aplicación. Asegúrese que la pintura base y la pintura sean compatibles. Use acabados para exteriores para las superficies exteriores. Pinte los bordes y los extremos de la puerta expuestos al medio ambiente.

Para teñir puertas:
primero limpie con un paño limpio y aguarrás mineral y deje secar al aire o lave la puerta con un detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. En el caso de superficies previamente teñidas, sólo recomendamos el uso de tintes y productos de capas transparentes que se encuentran en el **kit para acabado Therma-Tru Same-Day Stain™.** Aplique el tinte con un paño. Mientras más tiempo deje el tinte antes de limpiarlo, más oscuro será el color. Pase un paño limpio sobre el tinte, las veces que sea necesario hasta que obtenga el tono de color que desea. Retire cualquier exceso de tinte de las grietas del panel con la brocha de espuma que se incluye; deje secar el tinte durante al menos 6 horas antes de aplicar la siguiente capa. Consulte las instrucciones del **kit para acabado Therma-Tru Same-Day Stain™** para obtener información más detallada.

De marco de puerta compuesto Therma-Tru:

Para pintar componentes de marco de puerta compuesto Therma-Tru: primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. Proteja los accesorios, y remueva los empaques antes de pintar. Use pintura de látex acrílico de alta calidad para casas y siga las instrucciones del fabricante para su aplicación. En las superficies que dan al exterior use pintura para exteriores. Pinte los bordes y los extremos expuestos de la puerta.

Para teñir componentes de marco de puerta compuesto Therma-Tru:
primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. En el caso de superficies previamente teñidas, sólo recomendamos el uso de tintes y productos de capas transparentes que se encuentran en el **kit para acabado Therma-Tru Same-Day Stain™**. Aplique el tinte con un paño. Mientras más tiempo deje el tinte antes de limpiarlo, más oscuro será el color. Pase un paño limpio sobre el tinte, las veces que sea necesario hasta que obtenga el tono de color que desea. Deje secar el tinte durante al menos 6 horas antes de aplicar la siguiente capa. Consulte las instrucciones del **kit para acabado Therma-Tru Same-Day Stain™** para obtener información más detallada.

Solo para residentes de California

ADVERTENCIA: Cáncer y daño reproductivo
www.P65Warnings.ca.gov

Issued 6/19 Part# MSDRIST65

THERMA-TRU® DOORS

Builder, Subcontractor or Supplier:

Please forward these instructions to the homeowner.

Therma-Tru® certified door systems and Therma-Tru® door systems that require product approval (typically for coastal applications) may require special assembly, components and installation. Always refer to the certified system requirements and product approval assembly and installation drawings on our website for these applications.

Building codes can vary by Jurisdiction, County and/or State. Always check for any specific assembly or installation that may be required by Code in your area.

Installation Instructions for Vented Sidelite Door Systems

These installation instructions are designed to assist door installers who have an understanding of carpentry principles, and know how to properly and safely use power tools. The purpose of these instructions is to illustrate how to install a Therma-Tru® door system using methods and materials that help eliminate air infiltration and water related leaks. If the directions are closely followed, the door system will have a long useful life with good resistance to air and water intrusion problems.

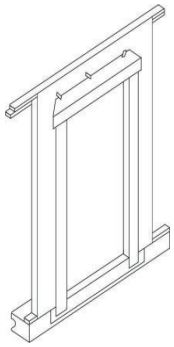
These methods are "tried and true" They are used widely by builders and remodelers who are serious about managing and keeping water outside the home. Rather than eliminate any steps that may be unclear to you, please call 1-800-THERMATRU and ask for clarification. If you remain unclear, please seek more professional assistance with the installation.

Required Tools & Materials: Tape measure, 6-foot and 2-foot level, framing square, at least 20 feet of string or twine and push pins, several tubes of high-quality hybrid polymer, elastomeric or polyurethane sealant (Therma-Tru recommends OSI QUAD MAX sealant for its adhesion strength and long-term durability across various building materials applications), caulking gun, step ladder, small pry bar, hammer, safety glasses, gloves, utility knife, punch or brad nailer, tin snips, electric drill or screw gun, two screw drivers (one Phillips and one flat-blade), composite or cedar shims, putty knifes, one stiff, one flexible, exterior grade number 8 x 2-1/2" screws, self-adhesive flashing tape, j-roller, rigid head flashing, closed cell low expansion polyurethane window and door foam (Therma-Tru recommends OSI QUAD FOAM because it surpasses our requirements and is available with a professional application gun, allowing multiple uses from one can of foam), proper foam application gun, foam cleaner and a rigid Therma-Tru sill pan. Exterior trim if needed.

The door unit is large, heavy and can be cumbersome to lift, move and position. Use safe lifting techniques and a helper(s) to assist you with installation, in order to prevent personal injury and damage to the unit, and to help facilitate proper installation.

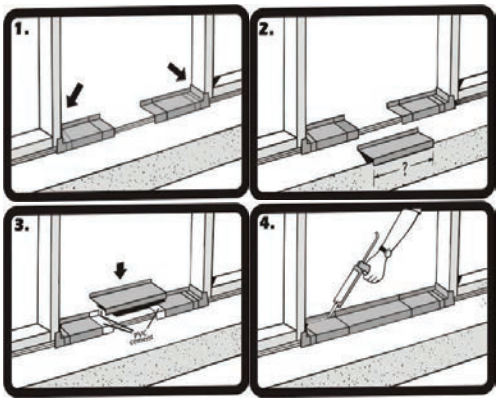
Read all instructions before starting.

Therma-Tru® Recommended Best Practices



Use Water Resistive Barrier and Flexible Flashing: We recommend the use of a Water Resistive Barrier (WRB) applied to the exterior sheathing (OSB or other) and the use of an adhesive or flexible flashing product to seal around the opening. The WRB should be cut in the opening (follow manufacturer's guidelines) with the head of the flap taped up, to be sealed later in Step 13. The flashing should be applied in an overlapping manner as shown, always working from the bottom up (follow manufacturer's guidelines).

Use a Sill Pan: We recommend you first "dry fit" the sill pan in the opening, following the instructions furnished with the sill pan. Place the right and left sill pan ends tight against the sides of the opening. Check the center section for proper length and if necessary, cut with a hack saw or tin snips. Be sure to allow 2 inches of overlap at the joints.



Note: Use only the PVC cement provided in the sill pan kit to glue the pieces together. The sill pan must be sealed to the sub-floor using a high-quality hybrid polymer, elastomeric or polyurethane sealant; Therma-Tru recommends OSI QUAD MAX, but do not apply sealant to the bottom of the sill when using a sill pan.

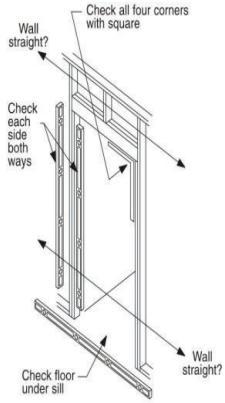
Step 1: Check Door Unit.

Check width and height.

Measure size of frame (width and height), not brickmould.

Remove cleats and packaging, but keep door fastened closed with transport clip. Do not remove the transport clip until instructed to do so later in Step 9.

Step 2: Check and Prepare Opening.



Is the opening the correct size for the door unit? Check it against the door frame size now, before installation. The opening should be frame height plus ½ inch, and frame width plus ½ inch to ¾ inch. ***Fix any problems now.***

Are the framing and walls **PLUMB**? Use a 6 foot level and check both sides of the opening, both ways (front to back and right to left). ***Fix any problems now.***

Is the sub floor level and solid? ***Provide a flat, level, clean weight bearing surface so the sill pan or sill can be properly caulked and sealed to the opening. Scrape sand or fill as required.***

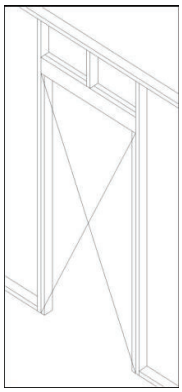
Note: If additional floor covering clearance is required, attach the shim board to the sub floor. Be sure to caulk well under the shim board.

Is the opening square? Check all corners with a framing square. Double check by comparing diagonal measurements. ***Fix any problems now.***

Pre-Hung Venting Unit Installation

THERMA-TRU DOORS

Step 2 cont.: Check and Prepare Opening.

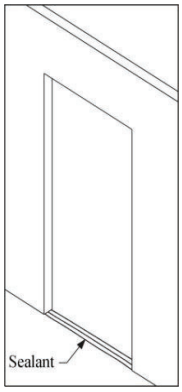


Check to be sure the framing walls around the opening are in the same plane. Do this by performing a "string test" for plumb.

String Test for Plumb: Attach a string diagonally across the opening from the outside, as shown. The string(s) should gently touch in the center, if not the opening is "out of plumb" by twice that distance and needs to be corrected. Flip the string over itself to check both planes. ***Fix any problems now.***

*An "out of plumb" condition is one of the most common reasons door units leak air and water.

Step 3: Caulk the Sub Floor.



On the sub floor at opening, place 3 very large beads of sealant. Run beads full width of the opening.

Use Only a high-quality hybrid polymer, elastomeric or polyurethane sealant; Therma-Tru recommends OSI QUAD MAX.

Use an Entire Tube when Caulking along the Sub Floor.

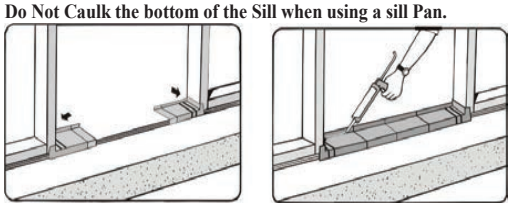
Step 3A: Installation with a Sill Pan.

Place the right and left sill pan ends onto the caulk beads and tightly against the side of the opening.

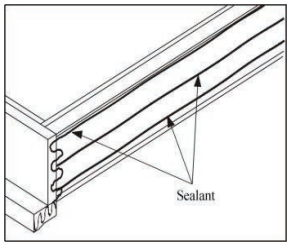
Then, liberally coat the overlapped areas and the recessed areas of the pieces with the PVC cement provided. Place center section(s) in position and hold pieces together long enough to ensure a good bond.

For added protection, spread a bead of caulk along the glue joints and to help prevent air infiltration, run a bead of caulk along the lower interior edge of the sill pan. Additional caulking could affect the performance of the sill pan.

Do Not Caulk the bottom of the Sill when using a sill Pan.



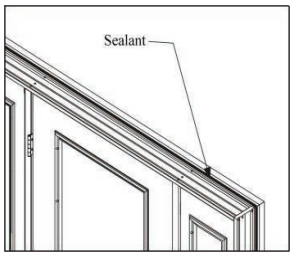
Step 3B: Installation without a Sill Pan.



Lay the door unit on edge or face so that the bottom surface of the sill can be caulked. Place very large beads of caulk across the full width of the sill. Additionally, place beads of caulk along the junction of the sill and the jamb and on the bottom surface of the jambs and brickmould.

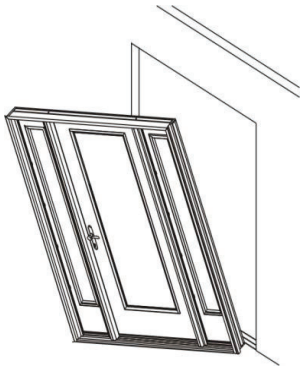
Note: If a sill extender is used, place a large bead of caulk at the junction of the extender and the sill approach.

Step 3C: Caulking Back side of Brickmould.



Important!
Apply sealant to the back side of brickmould around the entire perimeter of the door unit. A 1/2 – 5/8 inch bead of a high-quality hybrid polymer, elastomeric or polyurethane sealant is essential. Therma-Tru recommends OSI QUAD MAX.

Step 4: Place Unit in Opening and Temporarily Fasten.



Lift the unit up. With top edge tilted away from opening, center the unit and place sill down onto sill pan or caulk beads and tilt into opening.

For all door unit configurations, note the hinge locations and mark those locations on the jamb faces near the door surfaces. Pre-drill 1/8 inch diameter holes at these locations for screw placement.

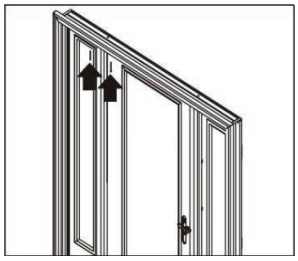
For Therma-Tru Composite Door Frame systems, also pre-drill 1/8 inch diameter holes between hinge locations on both jambs.

A counter sink bit will help to conceal the screw heads, if not using provided hidden fastening system.

Install screws in the center pre-drilled hole locations on both jambs to temporarily secure the unit in the place. Do not drive screws completely in at this time. Use #8 X 2-1/2 inch or 3 inch exterior grade screws. If installing with provided hidden fastening system, install with provided screws.

Do Not Fasten through the Brickmould.

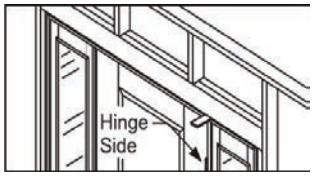
Step 5: Plumb and Fasten Hinge Side Mull Post.



Use a 6 foot level and plumb the hinge side mullion both ways (right to left and inside to outside).

Pre-drill and insert a screw through the frame into the header, on each side of the hinge mull post. If installing with provided hidden fastening system, install with provided screws.

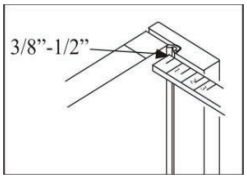
Do not drive the screw completely in at this time.



Shim directly over hinge side mull post. Using a 6 foot level, recheck hinge mull post to ensure it is plumb and straight. Finish driving screw tight.

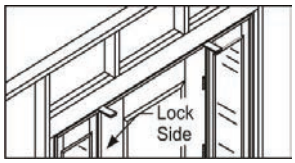
Note: When installing a French door with active sidelites, first set the hinge mullion for the passive door. For details on properly setting the astragal slide bolt hole locations, follow the instructions in the astragal site pack.

Step 6: Adjust and Fasten Lock Side Mull Post.



Adjust lock side mull post so that the weatherstrip contacts the door surface equally at the top, middle, and bottom, an even 3/8" – 1/2" when fully closed. Pre-drill and insert a screw through the frame into the header, on each side of the lock mull post

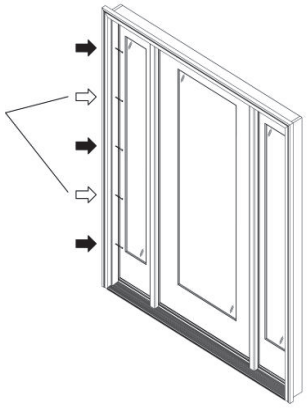
Do Not drive the screw completely in at this time.



Shim directly over lock side mull post. Recheck lock mull post to ensure weatherstrip contact is even top to bottom. Finish driving screw tight.

Step 7: Adjust and Secure Side Jambs.

Adjust the sidelite hinge jamb on the hinge mull side of the unit to obtain even weatherstrip contact top to bottom at the lock side of the sidelite. Place a screw through the hinge side jamb, into the stud, at each remaining hinge location.

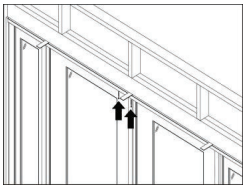


For Therma-Tru Composite Door Frame systems, also place screws between hinge locations.

Do Not drive the screws completely in at this time.

Shim above the screws between the opening and the jamb and make adjustment so the margin between the sidelite and mullion are even top to bottom. This margin will be slightly larger than the margin at the door. Recheck sidelite hinge jamb to ensure weatherstrip contact is even top to bottom. Finish driving screws tight. Repeat the previous step on the sidelite hinge jamb on the lock mull side of the unit.

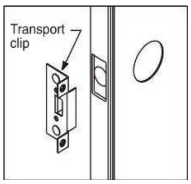
Step 8: (French Door) Temporary Shim at Head Jamb.



When installing a French door with active sidelites, place temporary shims above the center of the head frame, between the strike plate screws.

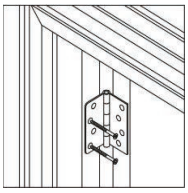
Pre-drill and insert long screws through the strike plate and into the header, then remove the temporary shims.

Step 9: Remove Transport Clip and Open Door.



Remove transport clips. Confirm door and sidelites operate properly.

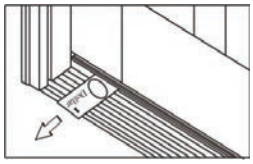
Make adjustments as needed.



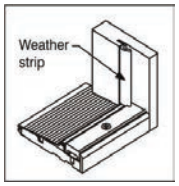
With sidelites open, drill 1/8" diameter pilot holes and install the long hinge screws in the hinge locations closest to the weatherstrip. Do this for all hinges.

Step 10: Adjust Sill.

Your door unit has adjustable threshold caps. When properly adjusted, it should be snug and slightly difficult to pull a dollar bill out from under the door and sidelites when fully closed. The dollar bill should be able to be removed without tearing**.**



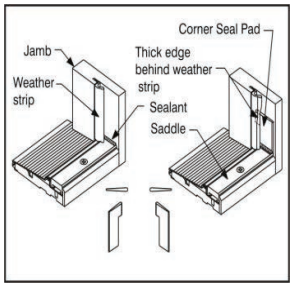
This check should be performed at each adjustment screw location on each active threshold cap.



After adjusting the threshold cap, ensure that the weatherstrip is ***flush*** with the top of the threshold cap. Trim as necessary.

Step 11: Install Corner Seal Pads – Inswing units Only.

Apply sealant (a high-quality hybrid polymer, elastomeric or polyurethane sealant; Therma-Tru recommends OSI QUAD MAX.) at the joint where the threshold cap meets the door jambs.



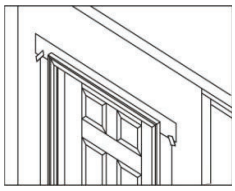
Remove the self-stick paper from the corner seal pads and apply to the jamb or mull post, with the *bottom* lined up evenly with the top of the threshold cap. When the pad is correctly installed, the tab is on top and the narrow part is on the bottom.

The bottom of the pad is the same width of the threshold cap to help with alignment during installation. Corner pads must be installed on **both** sides of **each** active opening.

Pre-Hung Venting Unit Installation

THERMA-TRU® DOORS

Step 12: Weatherproof, Finish and Maintain.



Provide and maintain a properly installed drip cap or head flashing to protect top of surfaces from **Water intrusion** and damage. Tape and properly seal the top flap of the Water Resistive Barrier (WRB) over the head flashing.

Caulk around **entire** "weather" side of unit, sealing along the brickmould to the flashing material or siding and seal all joints between the jambs and moldings.

Seal the joints between the exterior hardware trim and the door face to **prevent** air and water infiltration.

Place and set galvanized finish nails through the brickmould around the perimeter. Use exterior grade screws if you are installing a storm door to the brickmould. Countersink all fasteners and cover with exterior grade putty.

Use a low expansion window and door foam in the cavity between the opening and unit to reduce **air & water infiltration and heat transfer**. Therma-Tru recommends OSI QUAD FOAM.

All Therma-Tru® Fiberglass doors must be finished within 6 months of the installation date for continued warranty coverage.

Paint or stain according to Therma-Tru® Finishing instructions. Do Not paint or stain the weatherstrip, it is "friction-fit" and easily removed for painting or staining.

All 6 sides of the doors must be finished. All door edges must be inspected and maintained as regularly as all other surfaces.

All bare wood surfaces such as the door frame exposed to weather should be primed and painted or stained and top coated ***within*** two weeks of exposure for best performance.

Maintain or replace sealants and finishes as soon as any deterioration is evident. For semi-gloss or glossy paint or clear coats, do this when the surface becomes dull or rough. More severe climates and exposures will require more frequent maintenance.

Access our website **www.thermatru.com** for printable versions of the installation and Same-Day® Stain finishing instructions and to view our Troubleshooting video for minor installation issues and adjustments.

Finishing Instructions.

Work only when temperatures are between 50°and 90°F and with humidity less than 85%. Do not finish in direct sunlight. Work only in well-ventilated areas.

Smooth-Star® Doors:

To Paint Doors:
Clean first with mild detergent and water or use a TSP (trisodium phosphate) solution. Rinse well and allow to dry completely. Mask off hardware, glass and remove weatherstripping before painting. Use high quality acrylic latex house paint, following manufacturer's directions for application. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Paint Doorlite Frames:
Remove any excess glass sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the sealant along the edge of the frame. Holding the razor blade at a 45 degree angle, scrape the sealant from glass. Wipe remaining residue off with window cleaner or mineral spirits. Clean glass frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely. Mask off glass. Prime glass frames with an alkyd- or acrylic-based primer. Allow primer to dry before applying finish paint coats. Use high-quality acrylic latex house paint, following manufacturer's application instructions. Use exterior grade finishes for outside surfaces.

Fiber-Classic® Doors:

To Finish Doorlite Frames and Panel Inserts:
Remove any excess glass sealant by first spraying with a window cleaner or water. Use a single edge razor blade to score the sealant along the edge of the frame. Holding the razor blade at a 45° angle, scrape the sealant from glass. Wipe remaining residue off with window cleaner or mineral spirits. Clean glass frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely. Mask off glass. Prime glass frames with an alkyd- or acrylic-based primer. Allow primer to dry before applying finish paint coats. Use high-quality acrylic latex house paint, following manufacturer's directions for application and dry time. Use exterior grade finishes for outside surfaces.

To Paint Doors:
Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Prime with an alkyd- or acrylic-based primer. Allow primer to dry completely, then paint with acrylic latex house paint, following paint manufacturer's application instructions. Use a primer and paint that are compatible. Use exterior grade finishes for outside surfaces. Paint edges and exposed ends of door.

To Stain Doors:
Clean first with a clean cloth and mineral spirits and allow to air dry or wash door with mild detergent and water, or a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. For stained surfaces, we only recommend the use of the stain and clear coat products found in the **Therma-Tru® Same-Day® Stain Finishing Kit**. Apply stain with a rag. The longer the stain is left to "setup" before wiping off, the darker the color will be. Using a clean rag, wipe off the stain to the color shade you desire. Remove any excess stain from the panel grooves with the foam brush provided; allow the stain to dry for at least 6 hours before applying topcoat. See **Therma-Tru® Same-Day® Stain Finishing Kit** instructions for complete details.

Therma-Tru Composite Door Frame Components:

To paint Therma-Tru Composite Door Frame Components:
Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. Mask off hardware and remove weather-stripping before painting. Use high-quality acrylic latex house paint, following manufacturer's directions for application. Use exterior grade finishes for outside surfaces.

To Stain Therma-Tru Composite Door Frame Components:
Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution. Rinse well and allow to dry completely. For stained surfaces, we only recommend the use of the stain and clear coat products found in the **Therma-Tru Same-Day Stain™ Finishing Kit.** Apply stain with a rag. The longer the stain is left to "setup" before wiping off, the darker the color will be. Using a clean rag, wipe off the stain to the color shade you desire. Allow the stain to dry for at least 6 hours before applying topcoat. See **Therma-Tru Same-Day Stain™ Finishing Kit** instructions for complete details.

THERMA-TRU DOORS

Constructor, subcontratista o proveedor:

Entregue estas instrucciones al propietario.

Los sistemas de puertas Therma-Tru® certificados y los sistemas de puertas Therma-Tru® que requieren aprobación de producto (especialmente para aplicaciones en zonas costeras) posiblemente necesiten ensambles, componentes e instalaciones especiales. Siempre consulte los requisitos para el sistema certificado y los dibujos de instrucción de ensamble e instalación para la aprobación de producto en nuestro sitio Web para dichas aplicaciones.

Los códigos de construcción pueden variar según la jurisdicción, el condado y/o el estado. Siempre verifique si es necesario algún ensamble o instalación especial según el código de su área.

Instrucciones de instalación para Sistemas de Puertas con Vidrieras Laterales con Ventilación

Estas instrucciones de instalación están diseñadas para ayudar a instaladores de puertas que ya cuentan con conocimiento previo de carpintería y saben usar herramientas eléctricas de una manera adecuada y segura. El propósito de estas instrucciones es mostrar la manera de instalar un sistema de puertas Therma-Tru mediante el uso de métodos y materiales que ayuden a prevenir filtraciones de agua hacia el interior de la casa. Seguir éstas instrucciones de manera adecuada alargará la vida útil del producto y reducirá los problemas relacionados con filtraciones de agua de lluvia.

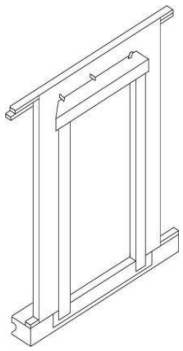
Estos métodos estan "comprobados" y se utilizan frecuentemente por constructores y remodeladores profesionales para mantener el agua fuera de la casa. Le recomendamos que si alguno de los pasos no es lo suficientemente claro, no lo omita, llame al 1-800-THERMA-TRU y pida que le aclaren su duda. Si aun así el procedimiento no está claro, por favor busque ayuda profesional para la instalación.

Herramientas y materiales necesarios para la instalación: Cinta métrica, nivel de 6 y 2 pies, escuadra, al menos 20 pies de hilo o cordel y chinchetas, suficientes tubos de sellador a base de polímero híbrido de alta calidad, sellador de elastómero o poliuretano (Therma-Tru recomienda el sellador "QUAD Max" de la marca OSI, por su fuerza de adherencia y durabilidad a largo plazo en diversas aplicaciones de materiales para construcción), pistola para sellador, escalera, barra de palanca pequeña, martillo, lentes de seguridad, guantes, navaja utilitaria, pistola de clavos, tijeras para hojalata, taladro eléctrico o pistola de tornillos, dos desarmadores (uno Phillips y uno plano), cuñas compuestas o de madera, espátulas para masilla (una rígida y otra flexible), tornillos de grado exterior número #8 x 2-1/2", cinta autoadhesiva a prueba de agua, rodillo tipo "J", solera rígida, espuma de poliuretano de baja expansión para ventanas (Therma- Tru recomienda "QUAD Foam" de la marca OSI ya que supera nuestros requisitos y está disponible con una pistola de aplicación profesional y se puede reutilizar), pistola para aplicar espuma, limpiador para espuma y una bandeja rígida de Therma-Tru. Moldura para uso exterior si es necesaria.

La unidad de la puerta es grande, pesado y puede ser incómodo al levantarla y moverla. Use técnicas de levantamiento seguras y pida a un asistente que le ayude con la instalación para evitar lesiones personales y daños al módulo, así como facilitar una instalación correcta.

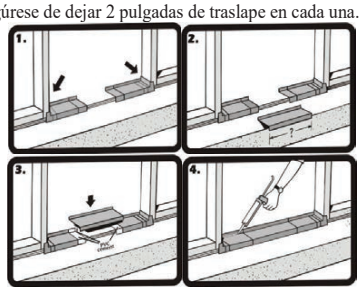
Lea todas las instrucciones antes de comenzar.

Prácticas recomendadas por Therma-Tru®



Use forros resistentes al agua y cinta autoadhesiva flexible a prueba de agua: Se recomienda utilizar forros resistentes al agua sobre el revestimiento exterior (OSB u otras), y el uso de algún producto adhesivo o cinta autoadhesiva flexible para sellar el perímetro de la abertura. Se debe cortar el forro resistente al agua sobre la abertura de la puerta (siga los lineamientos del fabricante) creando un fleje que debe sostenerse momentáneamente con cinta adhesiva en la parte superior, la cual se sellará más adelante en el paso 13 (siga las instrucciones del fabricante).

Instalación de kit de solera inferior: recomendamos que primero compruebe que la solera calce en la abertura siguiendo las instrucciones del fabricante. Coloque primero los extremos derecho e izquierdo de la solera contra los costados de la abertura. Compruebe que la sección central tenga el largo adecuado y de ser necesario, córtela con una sierra de mano o tijeras para hojalata. Asegúrese de dejar 2 pulgadas de traslape en cada una.



Nota: Use solo el cemento de PVC provisto en el kit de la solera inferior para pegar las piezas. Para sellar la solera inferior con el piso utilice un sellador de polímero híbrido, elastómero, o de poliuretano de alta calidad; Therma-Tru recomienda Quad Max de la marca OSI. No aplique sellador a la parte baja de la solera inferior.

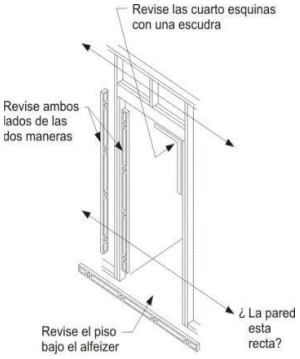
Paso 1: Revise el módulo para puerta.

Revise las dimensiones de ancho y alto.

Mida el tamaño del marco de la puerta (ancho y alto), no de la moldura exterior.

Retire el empaque junto con las tablillas y mantenga la puerta cerrada con el sujetador/pasador de transporte para evitar que se abra durante su manejo. No retire el sujetador/pasador de transporte hasta que se le indique en el paso 9.

Paso 2: Revise y prepare la abertura.



¿La abertura es del tamaño correcto para la puerta? Antes de seguir con la instalación, compare la abertura con el tamaño del marco de la puerta. La abertura debe ser del alto del marco más 1.27 cm y el ancho debe ser la medida del marco más 1.27 a 1.91 cm. ***Resuelva cualquier problema de dimensiones antes de continuar.***

Los marcos y las paredes deben estar **VERTICALES**. Use un nivel de 6 pies y revise a ambos lados de la abertura, del frente hacia atrás y de derecha a izquierda. ***Resuelva cualquier problema de nivelación en este momento***.

El suelo debe estar nivelado y sólido. ***Debe proporcionarse una superficie plana, nivelada y limpia que soporte el peso, de manera que se pueda aplicar correctamente la masilla de calafateo a la solera inferior y que ésta pueda estar bien sellada con la abertura usando revestimiento para alféizar. Raspe, lije o rellene según se necesite***.

Nota: si se necesita cubrir un claro de la abertura en el piso, fije la tabla de calza al suelo. Asegúrese de calafatear apropiadamente bajo la tabla de calza.

¿La abertura está encuadrada? Revise las 4 esquinas con una escuadra de enmarcar. Revise dos veces comparando las medidas diagonales. ***Resuelva cualquier problema en este momento.***

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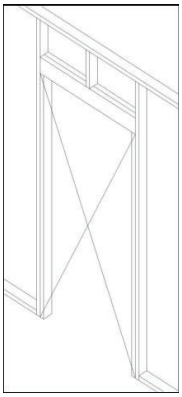
Paso 2, cont.: Revisión y preparación de la abertura.

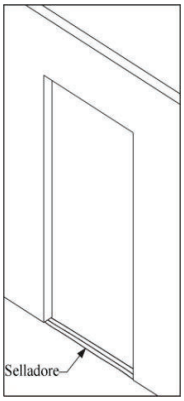


Las paredes que enmarcan el perímetro de la abertura deben están en el mismo plano. Revíselo realizando una prueba con un cordel.

¿Cómo realizar la prueba? Coloque un cordel que cruce diagonalmente la abertura (del lado exterior de la puerta), como se muestra en la figura. Los cordeles se deben tocar suavemente en el centro, de lo contrario, la abertura está "fuera de plano" y se debe corregir. Voltee el cordel sobre sí mismo para verificar ambos planos. ***Resuelva cualquier problema en este momento.***

*El estado "fuera de plano" es una de las razones más comunes por las que las puertas sufren fugas de aire y agua.

Paso 3: Aplicación de masilla de calafateo en el suelo.



Coloque 3 cordones gruesos de masilla de calafateo en el suelo de la abertura. Extienda los cordones hasta alcanzar el ancho total de la abertura.

Use únicamente sellador híbrido de polímero, elastómero o poliuretano de alta calidad; Therma-Tru recomienda OSI QUAD MAX.

Use un tubo completo de masilla de calafateo cuando lo aplique al suelo.

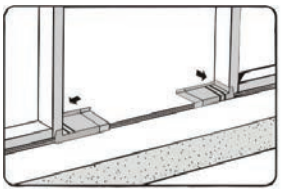
Paso 3A: Instalación con kit de revestimiento de solera inferior .

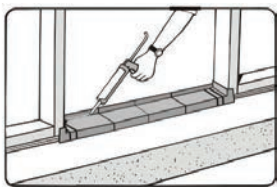
Coloque los extremos derecho e izquierdo del revestimiento de la solera en los cordones de masilla de calafateo y presione firmemente contra el costado de la abertura.

Luego, aplique una cantidad generosa de cemento PVC (ya incluido) en las áreas de traslape de las piezas del revestimiento de la solera. Coloque la(s) sección(es) central(es) en posición y mantenga juntas las piezas el tiempo suficiente para asegurar una buena adhesión.

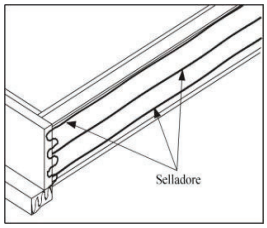
Para obtener protección adicional, esparza un cordón de masilla de calafateo a lo largo de las uniones y para evitar la filtración de aire, extienda un cordón de masilla de calafateo a lo largo del borde interior inferior de las piezas del revestimiento de la solera. Aplicar masilla de calafateo en exceso puede afectar la efectividad del revestimiento de la solera.

Cuando instale un kit de revestimiento de solera inferior, No calafatee la parte inferior de la solera de la puerta.





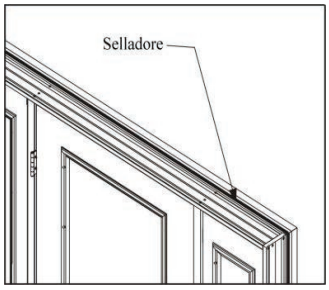
Paso 3B: Instalación sin kit de revestimiento de solera inferior.



Apoye la puerta sobre su borde o una de las caras, de manera que se pueda calafatear la superficie inferior de la misma. Aplique cordones gruesos de masilla de calafateo a lo largo y ancho de la superficie inferior de la puerta. También coloque cordones de masilla de calafateo a lo largo de las uniones de la solera con el marco de la puerta, y entre el marco y la abertura.

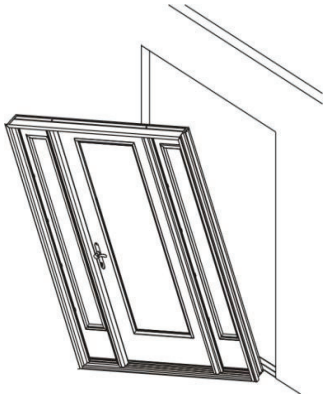
Nota: si usa una extensión de la solera, aplique masilla de calafateo en la unión de la extensión y la solera.

Paso 3C: Calafateo de la parte posterior de la abertura.



¡Importante!
Aplique un cordón de sellador de 1.27 a 1.59 cm en la parte posterior de la abertura alrededor de todo el perímetro de la unidad de la puerta. Use sellador híbrido de polímero, elastómero o poliuretano de alta calidad. Therma-Tru recomienda OSI QUAD MAX.

Paso 4: Coloque la unidad en la abertura y fije temporalmente.



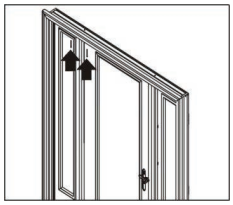
Levante la unidad. Con el borde superior inclinado, aléjelo de la abertura, centre la unidad y coloque el borde inferior de la puerta en la solera inferior o en los cordones de masilla de calafateo, luego inclínelo hacia la abertura.

Tenga presente la ubicación de las bisagras y marque su posición en el marco. Pretaladre orificios de 0.32 cm de diámetro en estas ubicaciones para colocar los tornillos. Para los sistemas de marco de puerta compuestos Therma-Tru, también taladre agujeros de diámetro de 0.32 cm entre las ubicaciones de las bisagras en ambas jambas. Si no utiliza el sistema de sujeción oculto proporcionado, puede ocultar las cabezas de los tornillos si usa una broca para avellanar.

Instale los tornillos en la ubicación del orificio central pretaladrado de ambos marcos para asegurar la unidad temporalmente en su lugar. No atornille completamente en este momento. Use tornillos para exteriores de #8 X 2-1/2 ó 3 pulgadas. Si se instala con el sistema de sujeción oculto suministrado, Instale con los tornillos proporcionados.

No atornille en la abertura.

Paso 5: Nivele y asegure el haz vertical del lado de la bisagra.



Con un nivel de 6 pies nivele el entrepaño del lado con bisagras en dos sentidos: de derecha a izquierda y del interior al exterior.

Pre-taladre e inserte un tornillo a través del marco en la cabecera, a cada lado del poste (s) del Mull. Si se instala con el sistema de sujeción oculto suministrado, Instale con los tornillos proporcionados.

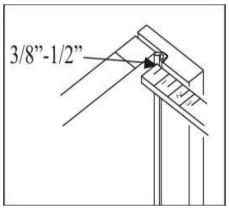
No apriete los tornillos en este momento.

Paso 5, cont.: Nivele y fije la viga vertical frontal lateral.

Coloque calzas sobre la viga vertical frontal de lado de las bisagras. Con un nivel de 6 pies, vuelva a revisar la viga vertical frontal para asegurarse de que está nivelada y recta. Termine de apretar el tornillo.

Nota: Cuando instale una puerta estilo francés con vidrieras laterales activas, primero coloque la viga de lado de las bisagras para la puerta pasiva. Para mayor detalle acerca de cómo localizar los agujeros para instalar el astrágalo, refiérase a las instrucciones en el paquete del mismo.

Paso 6: Ajuste del listón vertical del lado de la cerradura.



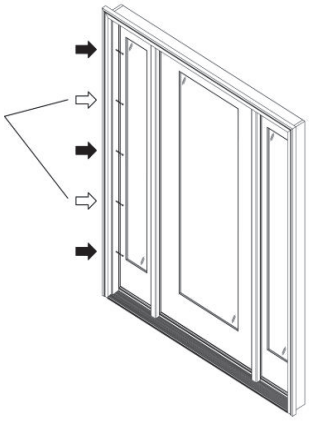
Ajuste la viga vertical central del lado de la cerradura de manera que el empaque haga contacto con el marco de la puerta de forma pareja en la parte de arriba, en medio y abajo. Debe haber un claro de 0,95 a 1,27 cm cuando la puerta esté completamente cerrada. Pre-taladrar e insertar un tornillo a través del marco en el cabezal, a cada lado del poste de Mull de la cerradura

No apriete completamente el tornillo en este momento.

Coloque calzas sobre las vigas verticales del lado de la cerradura. Vuelva a revisar que el empaque siga teniendo un contacto parejo con el marco de la puerta. Termine de apretar el tornillo.

Paso 7: Ajuste de los marcos laterales.

Ajuste el marco de la vidriera lateral del lado de las bisagras para que el empaque tenga un contacto parejo con el marco del lado de la cerradura. Pase un tornillo a través del marco del lado con bisagras hasta el montante, en cada ubicación de las bisagras restantes.



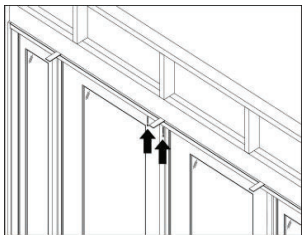
Para los sistemas de marco de puerta compuestos Therma-Tru, también Coloque tornillos entre las ubicaciones de las bisagras como se muestra en los diagrama.

No apriete completamente los tornillos en este momento.

Cuña por encima de los tornillos entre la abertura y la jamba, y realice ajustes de manera que el margen entre la vidriera lateral y el entrepaño sea uniforme desde la parte superior a la parte inferior. Este margen debe ser ligeramente más grande que el margen de la puerta. Vuelva a revisar el marco de las bisagras de la vidriera lateral para asegurarse de que el empaque haga contacto de manera uniforme desde la parte superior a la parte inferior. Termine de apretar los tornillos.

Repita el paso anterior en el marco de las bisagras de la vidriera lateral en la viga del lado de la cerradura de la puerta.

Paso 8: (Puerta estilo francés) Calza temporal en el marco frontal superior.



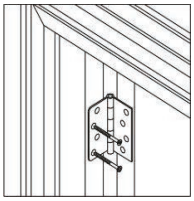
Cuando instale una puerta de estilo francés con vidrieras laterales activas, coloque cuñas temporales sobre el centro del bastidor delantero superior, entre los tornillos de la placa de ataque.

Pre-taladre e inserte tornillos largos a través del bastidor, hasta la viga y retire las calzas temporales.

Paso 9: Retire el sujetador para transporte y abra la puerta.

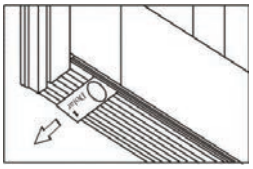
Retire los sujetadores para transporte. Verifique que la puerta y las vidrieras laterales funcionen correctamente.

Haga los ajustes necesarios.

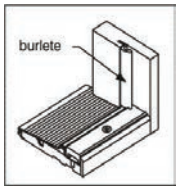


Con las vidrieras laterales abiertas, taladre orificios guía de 0,32 cm de diámetro e instale los tornillos para bisagra largos en las ubicaciones de las bisagras más cercanas al empaque. Realice el mismo procedimiento con todas las bisagras.

Paso 10: Ajuste el alféizar.



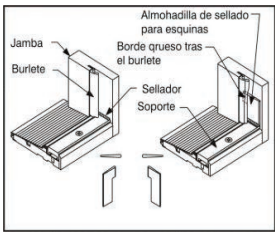
Su puerta tiene cubiertas para umbral ajustables. Cuando se ajustan correctamente, deben quedar apretadas y debe ser ligeramente difícil jalar un billete de un dólar por debajo de la puerta y de las vidrieras laterales cuando están bien cerradas. Se debe poder retirar el billete de un dólar sin rasgarlo.



Esta verificación se debe realizar en todas las ubicaciones de tornillos ajustables de cada cubierta para umbral activo.

Después de ajustar la cubierta para umbral, asegúrese de que el empaque (burlete) está al ras con la parte superior de la cubierta para umbral. Corte si es necesario.

Paso 11: Instale las almohadillas de sellado para esquinas: Sólo para unidades que se abren hacia adentro.



Aplique sellador (sellador híbrido de polímero, elastómero o poliuretano de alta calidad; Therma-Tru recomienda OSI QUAD MAX.) en la unión entre la cubierta de umbral ajustable y el marco de la puerta.

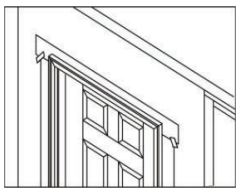
Retire el papel autoadhesivo de las almohadillas de sellado para esquinas y aplíquelas al marco de la puerta o en la viga vertical, alineando de forma pareja la parte inferior con la parte superior de la cubierta para umbral. Cuando la almohadilla se instala correctamente, la lengüeta se encontrará en la parte superior y la parte estrecha en la inferior.

La parte inferior de la almohadilla tiene el mismo ancho que la cubierta para umbral para facilitar la alineación durante la instalación. Las almohadillas de las esquinas deben instalarse en ambos lados de cada abertura.

Pre-Hung Venting Unit Installation

THERMA-TRU® DOORS

Paso 12: Instalación robusta a condiciones ambientales. Acabado y mantenimiento.



Aplique cinta autoadhesiva flexible para proteger superficies en la parte superior, esto evitará que el agua entre al inmueble o que haya daños. Coloque la cinta adhesiva en la parte superior de la lengüeta de la barrera resistente al agua (WRB).

Calafatee alrededor de todo el lado exterior de la unidad, sellando a lo largo de la moldura hasta el material de tapajuntas o los revestimientos y selle todas las uniones entre el marco y las molduras.

Selle las uniones de la estructura que sujeta a la unidad y toda la orilla de la unidad para prevenir filtración de aire y agua.

Coloque clavos galvanizados en el perímetro de la abertura. Si está instalando Puertas de Tormenta entonces utilice tornillos para exterior. Asegure que todos los clavos o tornillos utilizados estén al ras de la superficie y cúbralos con masilla para exteriores.

Utilice una pequeña expansión, ventana y puerta, espuma para aislar, en el claro que pueda quedar entre la abertura y la unidad de la puerta, a fin de prevenir **filtracion de aire y agua y reducir la transferencia de calor**. Therma-Tru recomienda OSI QUAD FOAM.

Se debe dar acabado a todas las puertas Therma-Tru® de fibra de vidrio dentro de los 6 meses a partir de la instalación para una adecuada cobertura de la garantía.

Pinte o tiña de acuerdo con las instrucciones de acabado de Therma-Tru®. No pinte ni tiña el empaque, debe quitarse y volverse a colocar en su posición después de pintar o teñir la puerta.

Debe pintarse o teñirse los 6 lados de la puerta. Deben inspeccionarse y dar mantenimiento a todos los bordes de las puertas con la misma regularidad que a todas las demás superficies.

A todas las superficies de madera que puedan quedar expuestas a la intemperie, como el marco de la puerta, se les debe aplicar sellador, pintura o mancha y una capa superior antes de las dos semanas de su instalación para un mejor funcionamiento.

Dé mantenimiento y/o reemplace los selladores y acabados tan pronto el deterioro sea evidente. En el caso de la pintura brillante o semibrillante y de las capas transparentes, hágalo cuando la superficie se vuelva opaca o áspera. El mantenimiento debe ser más frecuente en climas más rigurosos.

Ingrese a nuestro sitio Web www.thermatru.com para acceder a los manuales de instalación, instrucciones de “Acabado y Teñido en el mismo día” y para ver nuestro vídeo de solución de problemas y ajustes menores de instalación.

Instrucciones para el acabado:

Trabaje sólo cuando la temperaturas ambiental se encuentren entre 10ºC y 32.2ºC (50F y 90F) y la humedad relativa sea menor a 85%. No aplique acabados bajo la luz solar directa. Trabaje sólo en áreas bien ventiladas.

Módulos para puerta Smooth-Star®:

Para pintar puertas: primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. Proteja los accesorios, los vidrios y remueva los empaques antes de pintar. Use pintura de látex acrílico de alta calidad para casas y siga las instrucciones del fabricante para su aplicación. En las superficies que dan al exterior use pintura para exteriores. Pinte los bordes y los extremos expuestos de la puerta.

Para pintar los marcos de los vidrios: Primero retire cualquier exceso de sellador rociando limpiador de ventanas o agua. Use una navaja de un solo filo para remover sellador a lo largo del borde del marco. Remueva el sellador sosteniendo la cuchilla de la navaja en un ángulo de 45 grados. Retire los residuos con un limpiador de ventanas o aguarrás mineral. Limpie el marco con un detergente suave y agua o use una solución de TSP. Enjuague bien y deje secar completamente. Cubra el vidrio. Aplique una pintura base de resina alquídica o acrílica a los marcos de los vidrios. Deje secar la pintura base antes de aplicar las capas de pintura del acabado. Use pintura de látex acrílico de alta calidad para casas y siga las instrucciones del fabricante para su aplicación. En las superficies que dan al exterior use pintura para exteriores.

Puertas Fiber-Classic®:

Para dar acabado a los marcos de los vidrios y a accesorios para paneles: Primero retire cualquier exceso de sellador rociando limpiador de ventanas o agua. Use una navaja de un solo filo para remover sellador a lo largo del borde del marco. Remueva el sellador sosteniendo la cuchilla de la navaja en un ángulo de 45 grados. Retire los residuos con un limpiador de ventanas o aguarrás mineral. Proteja el vidrio. En las superficies que dan al exterior use pintura para exteriores (vea abajo.)

Para pintar puertas:
primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. Aplique una pintura base de resina alquídica o acrílica. Deje que la pintura base seque completamente, luego, pinte con pintura látex para casas siguiendo las instrucciones del fabricante para su aplicación. Asegúrese que la pintura base y la pintura sean compatibles. Use acabados para exteriores para las superficies exteriores. Pinte los bordes y los extremos de la puerta expuestos al medio ambiente.

Para teñir puertas:
primero limpie con un paño limpio y aguarrás mineral y deje secar al aire o lave la puerta con un detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. En el caso de superficies previamente teñidas, sólo recomendamos el uso de tintes y productos de capas transparentes que se encuentran en el **kit para acabado Therma-Tru Same-Day Stain™.** Aplique el tinte con un paño. Mientras más tiempo deje el tinte antes de limpiarlo, más oscuro será el color. Pase un paño limpio sobre el tinte, las veces que sea necesario hasta que obtenga el tono de color que desea. Retire cualquier exceso de tinte de las grietas del panel con la brocha de espuma que se incluye; deje secar el tinte durante al menos 6 horas antes de aplicar la siguiente capa. Consulte las instrucciones del **kit para acabado Therma-Tru Same-Day Stain™** para obtener información más detallada.

De marco de puerta compuesto Therma-Tru:
Para pintar componentes de marco de puerta compuesto Therma-Tru: primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. Proteja los accesorios, y remueva los empaques antes de pintar. Use pintura de látex acrílico de alta calidad para casas y siga las instrucciones del fabricante para su aplicación. En las superficies que dan al exterior use pintura para exteriores. Pinte los bordes y los extremos expuestos de la puerta.

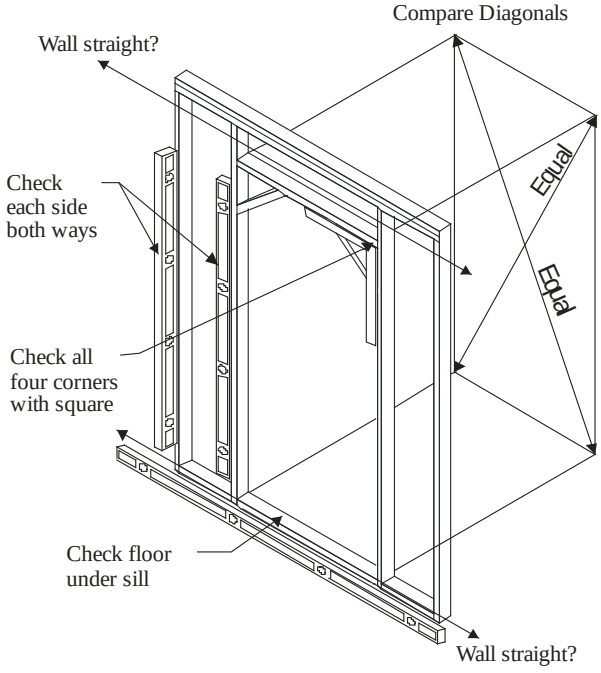
Para teñir componentes de marco de puerta compuesto Therma-Tru:
primero limpie con detergente suave y agua o una solución de TSP (fosfato trisódico). Enjuague bien y deje secar completamente. En el caso de superficies previamente teñidas, sólo recomendamos el uso de tintes y productos de capas transparentes que se encuentran en el **kit para acabado Therma-Tru Same-Day Stain™.** Aplique el tinte con un paño. Mientras más tiempo deje el tinte antes de limpiarlo, más oscuro será el color. Pase un paño limpio sobre el tinte, las veces que sea necesario hasta que obtenga el tono de color que desea. Deje secar el tinte durante al menos 6 horas antes de aplicar la siguiente capa. Consulte las instrucciones del **kit para acabado Therma-Tru Same-Day Stain™** para obtener información más detallada.

Issued 6/19 Part# MSDRIST-VS

Pre-hung Rustic Arch/Radius Installation Instructions

1 CHECK AND PREPARE OPENING

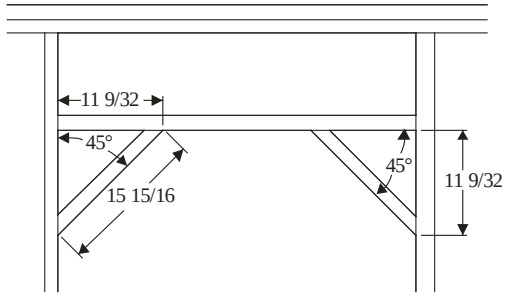
- Is subfloor level and solid? Provide a flat, level clean bearing surface so the sill may be caulked and sealed to the opening. Scrape, sand, or fill as required.
- Shim subfloor for floor covering clearance if required. If shimming, caulk under shims.
- Is opening square? Check all corners with a framing square. Double-check by comparing diagonal measurements. Fix any problems now.
- Are framing and walls plumb? Use a 6-foot level and check both sides of opening, both ways. Fix any problems now.
- Are the wall surfaces around the opening on the same plane? There must be no "warps" or "jogs". Fix any problems now.
- Is opening correct size? Check it against door frame size now before installation. Opening should be frame height plus ½" and frame width plus ½" to 1".



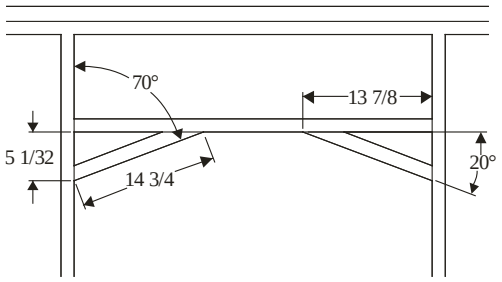
2 SUPPORT FRAME CONSTRUCTION

Build support framing at top for radius/arched top head jamb as shown below

Radius Top Head Jambs



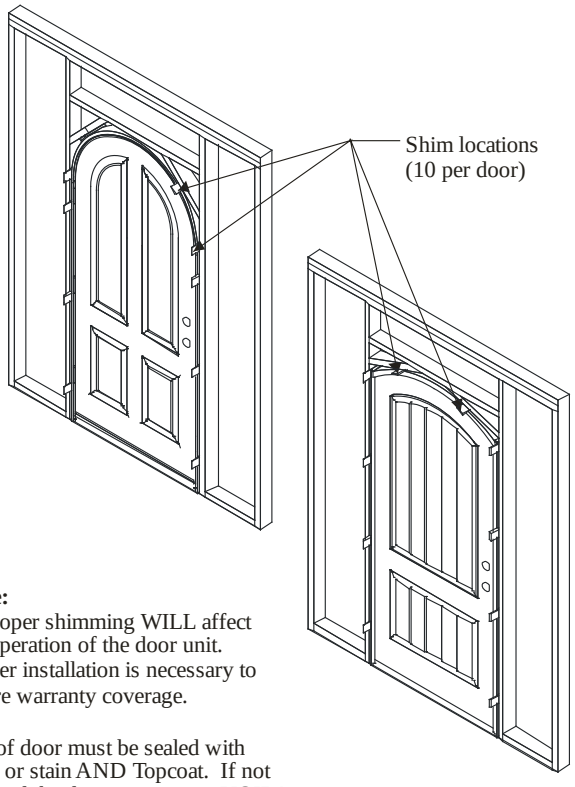
Arch Top Head Jambs



Pre-hung Rustic Arch/Radius Installation Instructions

3 SHIM BEHIND JAMBS, THEN ADJUST THE REST OF THE FRAME

- Go through another opening to work on swing side of door
- Leave door fastened closed with transport clip
- Shim at the indicated areas in the figure; Shim behind each hinge, shim at the angled framing members at the top, and shim side areas as shown
- Recheck hinge jamb with a 6-foot level to ensure it is plumb and straight
- Adjust frame so the frame face is flush with door face all around
- Secure hinge jamb from the other side of the door. Set nails or finish driving screws directly below shims
- Due to varying dimensions of mouldings, there may be a gap at the miter of the brick moulding where the radius/arch piece of the head meets the straight leg of the side. This is expected and should be caulked prior to painting.



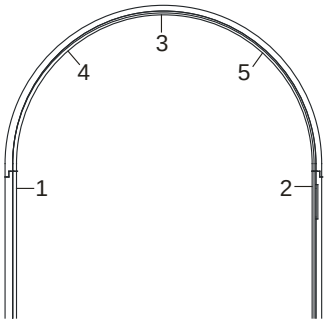
Note:
Improper shimming WILL affect the operation of the door unit. Proper installation is necessary to insure warranty coverage.

Top of door must be sealed with paint or stain AND Topcoat. If not finished the door warranty is VOID!

4 SCREW INSTALLATION

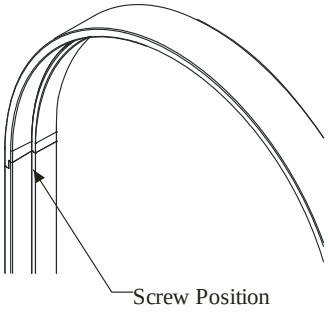
Special Instructions For Radius Top Head Jambs:

- Use #10 x 2” wood screws
- Install screws in the order shown below.
- Shims are required at all screw locations to control the final shape of the radius and to allow for the correct margins around the door.



For Both Radius Top Head Jambs:

- Use #10 x 2” wood screws
- Position all screws in the location shown below. The screws must be positioned such that the weather-strip hides the screw heads.



For California Residents only

⚠WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Part#: MSDRARRADIST65 REV. C 4/23/2018

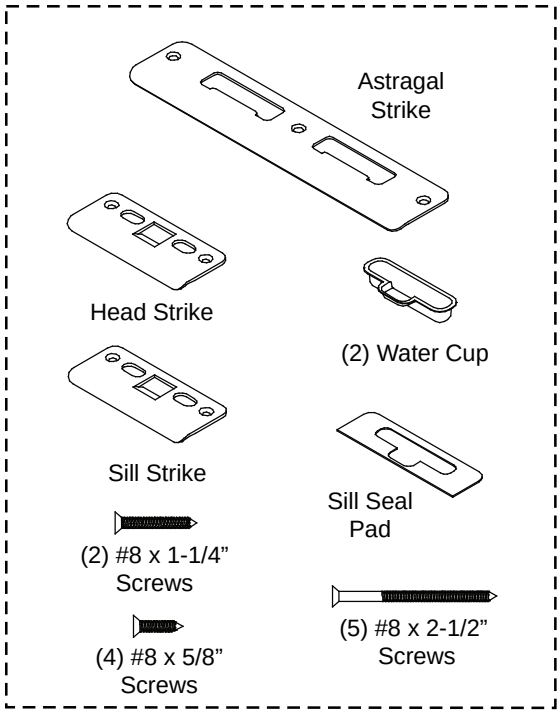
MPLS Strike Installation Instructions Standard Inswing Shootbolt

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

Rev. A 10/1/14 P/N: MPLSSTDIS

Standard Inswing Shootbolt Pack Contents:



THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

MPLS Strike Installation Instructions
Standard Inswing Shootbolt

All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1 *ASTRAGAL STRIKE ASSEMBLY.*

Insert astragal strike into the machined pocket on the astragal.

Fasten with (3) #8 x 2-1/2” screws. See Figure 1.

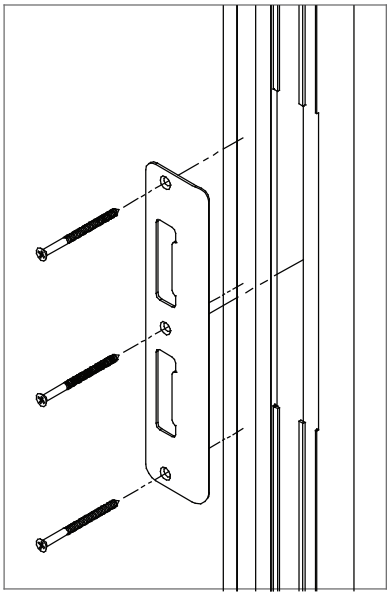


Figure 1

2 *HEAD STRIKE ASSEMBLY.*

Insert cup into head strike machining.

Seat head strike into head strike machining and attach with (2) #8 x 5/8” screws. See Figure 2.

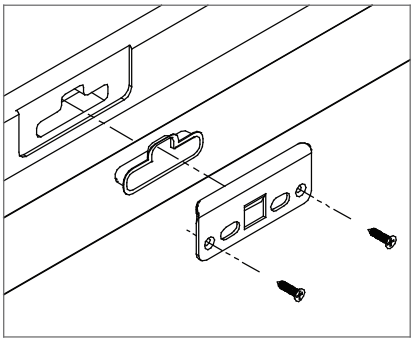


Figure 2

3 SILL STRIKE ASSEMBLY.

Insert cup into sill strike machining.

Place sill seal pad over the top of the cup, aligning it with the machined pocket on the sill. Seat the sill strike in the sill machining on top of the sill seal pad.

Attach with (2) #8 x 5/8” screws. See Figure 3.

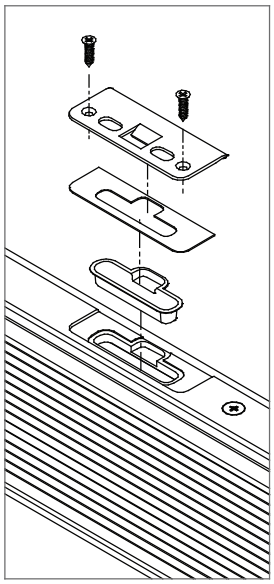


Figure 3

Ship all remaining parts with unit for Site Installation purposes.

AT THE SITE:

1 HEAD STRIKE ASSEMBLY.

Remove the screws from the head strike and replace with (2) #8 x 2-1/2” screws.

Use temporary shims as shown in the Therma-Tru Installation Instructions. See Figure 4.

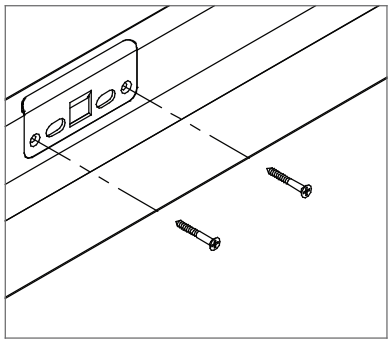


Figure 4

2 SILL STRIKE ASSEMBLY.

For added strength and security, remove the screws from the sill strike and replace with (2) #8 x 1-1/4” screws. See Figure 5.

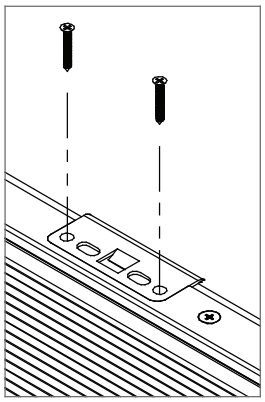


Figure 5

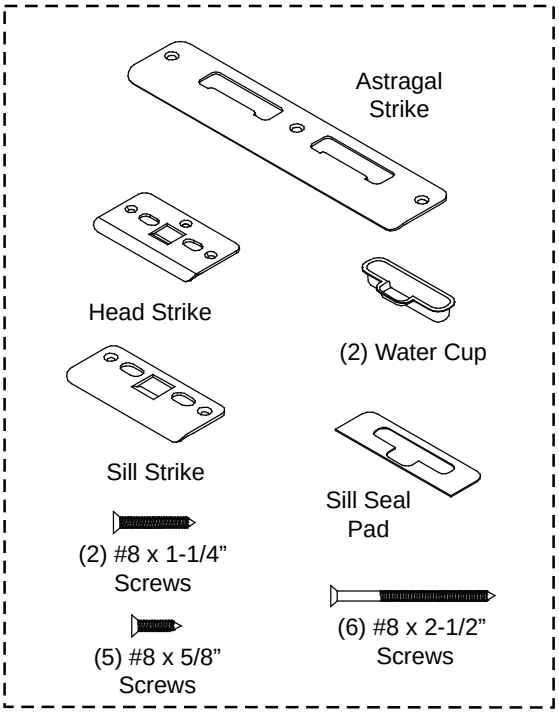
MPLS Strike Installation Instructions Impact Inswing Shootbolt

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

Rev. A 10/1/14 P/N: MPLSIMPIS

Impact Inswing Shootbolt Pack Contents:



THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1 ASTRAGAL STRIKE ASSEMBLY.

Insert astragal strike into the machined pocket on the astragal.

Fasten with (3) #8 x 2-1/2” screws. See Figure 1.

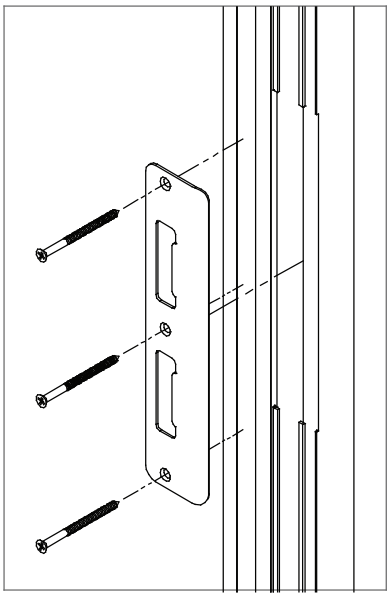


Figure 1

2 HEAD STRIKE ASSEMBLY.

Insert cup into head strike machining.

Seat head strike into head strike machining and attach with (3) #8 x 5/8” screws. See Figure 2.

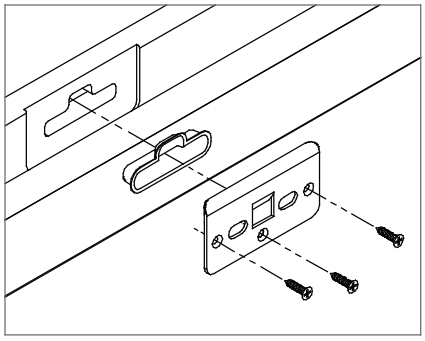


Figure 2

MPLS Strike Installation Instructions
Impact Inswing Shootbolt

THERMA-TRU DOORS

3 SILL STRIKE ASSEMBLY.

Insert cup into sill strike machining.

Place sill seal pad over the top of the cup, aligning it with the machined pocket on the sill. Seat the sill strike in the sill machining on top of the sill seal pad.

Attach with (2) #8 x 5/8” screws. See Figure 3.

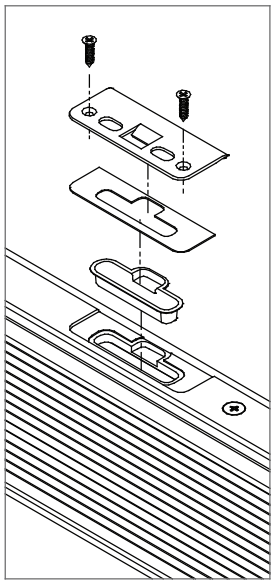


Figure 3

Ship all remaining parts with unit for Site Installation purposes.

AT THE SITE:

1 HEAD STRIKE ASSEMBLY.

Remove the screws from the head strike and replace with (3) #8 x 2-1/2” screws.

Use temporary shims as shown in the Therma-Tru Installation Instructions. See Figure 4.

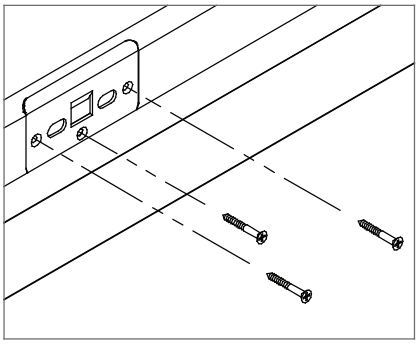


Figure 4

2 SILL STRIKE ASSEMBLY.

For added strength and security, remove the screws from the sill strike and replace with (2) #8 x 1-1/4” screws. See Figure 5.

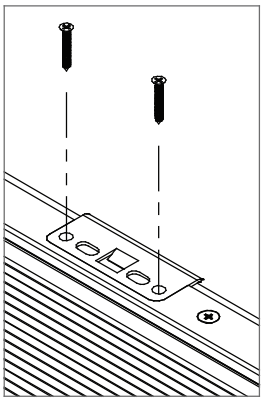


Figure 5

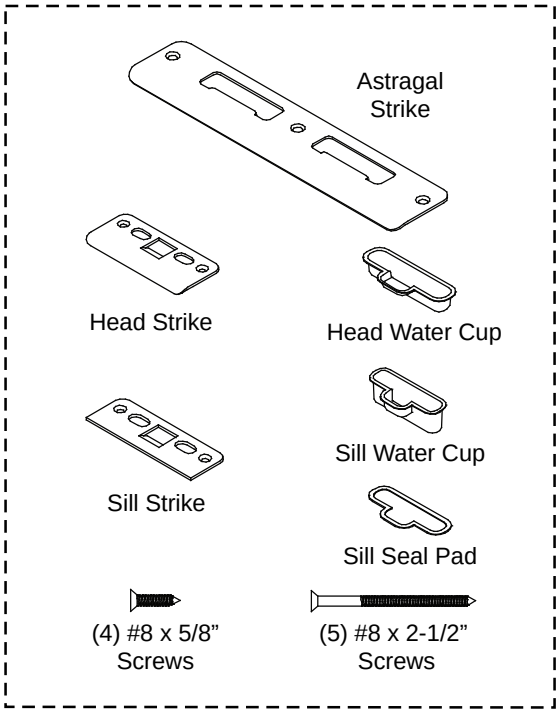
MPLS Strike Installation Instructions Standard Outswing Shootbolt

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

Rev. A 10/1/14 P/N: MPLSSTDOS

Standard Outswing Shootbolt Pack Contents:



THERMA-TRU DOORS
1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

MPLS Strike Installation Instructions
Standard Outswing Shootbolt

All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1 *ASTRAGAL STRIKE ASSEMBLY.*

Insert astragal strike into the machined pocket on the astragal.

Fasten with (3) #8 x 2-1/2” screws. See Figure 1.

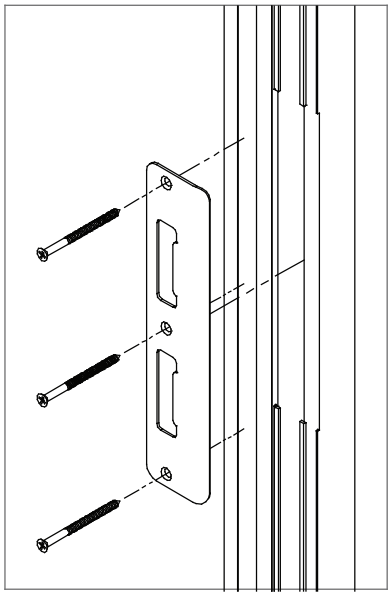


Figure 1

2 *HEAD STRIKE ASSEMBLY.*

Insert cup into head strike machining.

Seat head strike into head strike machining and attach with (2) #8 x 5/8” screws. See Figure 2.

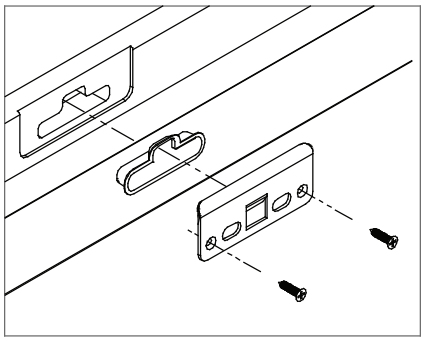


Figure 2

3 SILL STRIKE ASSEMBLY.

Place sill seal pad around the bottom lip of the sill cup. Insert sill cup into sill strike machining. Align the sill strike with the pre-drilled holes in the sill.

Attach with (2) #8 x 5/8" screws. See Figure 3.

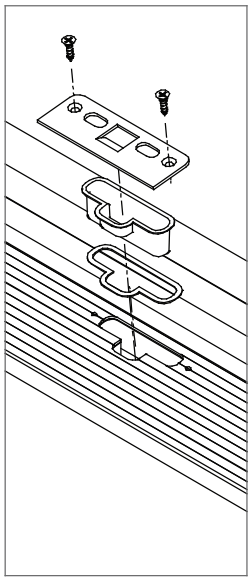


Figure 3

Ship all remaining parts with unit for Site Installation purposes.

AT THE SITE:

1 HEAD STRIKE ASSEMBLY.

Remove the screws from the head strike and replace with (2) #8 x 2-1/2" screws.

Use temporary shims as shown in the Therma-Tru Installation Instructions. See Figure 4.

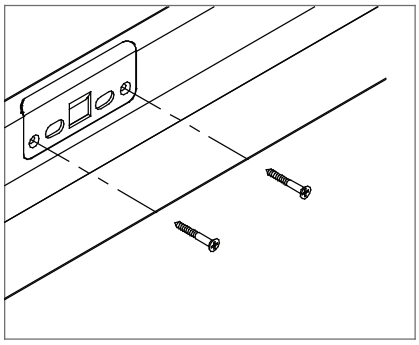


Figure 4

MPLS Strike Installation Instructions Impact Outswing Shootbolt

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

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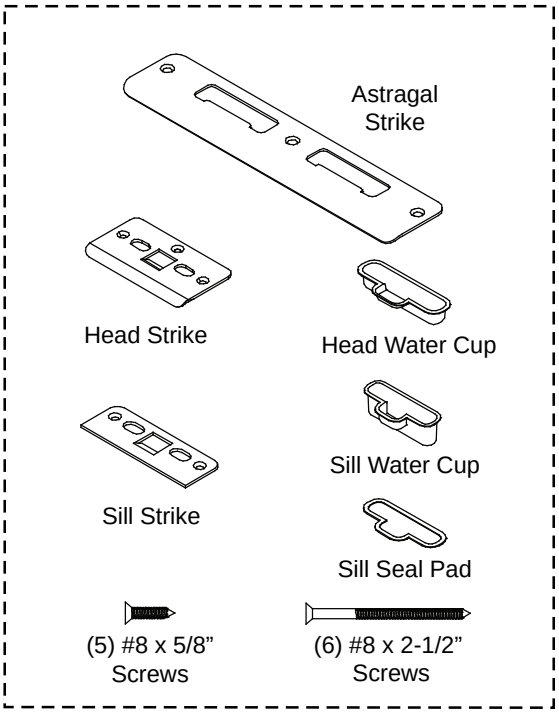
Impact Outswing Shootbolt Pack Contents:



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All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1 ASTRAGAL STRIKE ASSEMBLY.

Insert astragal strike into the machined pocket on the astragal.

Fasten with (3) #8 x 2-1/2” screws. See Figure 1.

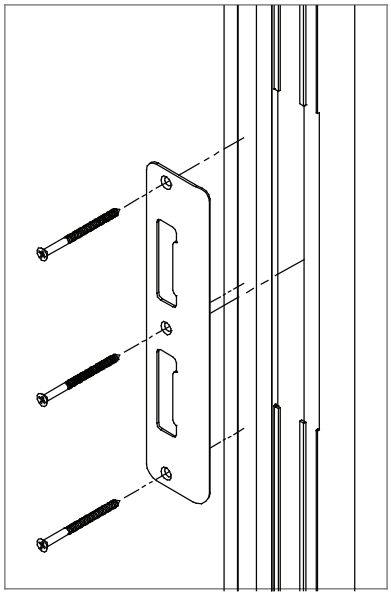

Figure 1

2 HEAD STRIKE ASSEMBLY.

Insert cup into head strike machining.

Seat head strike into head strike machining and attach with (3) #8 x 5/8” screws. See Figure 2.

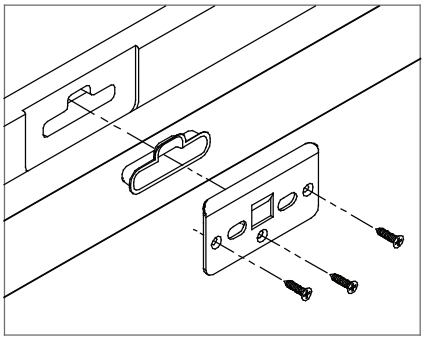

Figure 2

MPLS Strike Installation Instructions
Impact Outswing Shootbolt

THERMA-TRU DOORS

3 SILL STRIKE ASSEMBLY.

Place sill seal pad around the bottom lip of the sill cup. Insert sill cup into sill strike machining. Align the sill strike with the pre-drilled holes in the sill.

Attach with (2) #8 x 5/8” screws. See Figure 3.

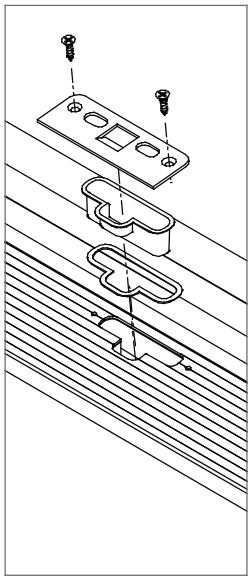

Figure 3

Ship all remaining screws with unit for Site Installation purposes.

AT THE SITE:

1 HEAD STRIKE ASSEMBLY.

Remove the screws from the head strike and replace with (3) #8 x 2-1/2” screws.

Use temporary shims as shown in the Therma-Tru Installation Instructions. See Figure 4.

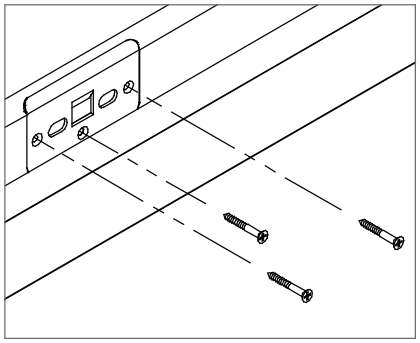

Figure 4

MPLS Strike Installation Instructions Aluminum Outswing Shootbolt

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

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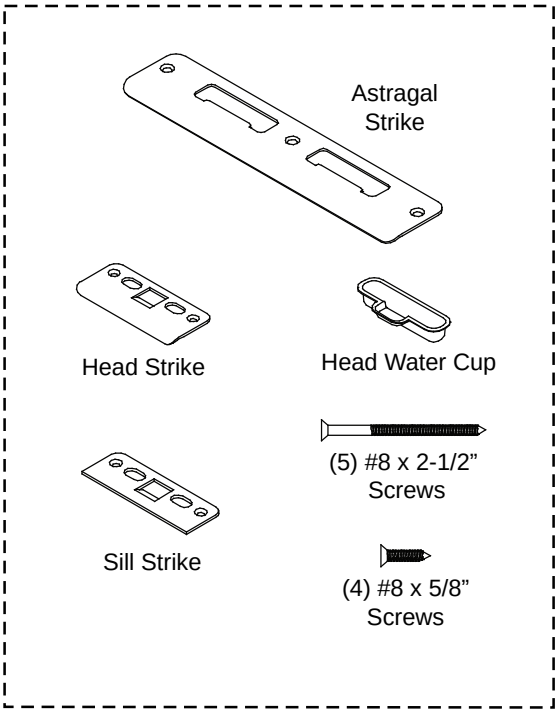
Aluminum Outswing Shootbolt Pack Contents:



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MPLS Strike Installation Instructions
Aluminum Outswing Shootbolt

All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1 *ASTRAGAL STRIKE ASSEMBLY.*

Insert astragal strike into the machined pocket on the astragal.

Fasten with (3) #8 x 2-1/2” screws. See Figure 1.

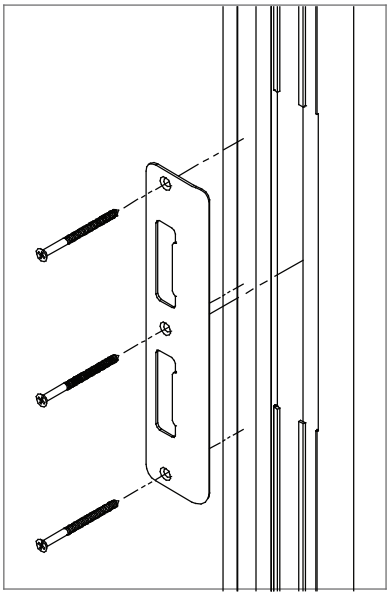


Figure 1

2 *HEAD STRIKE ASSEMBLY.*

Insert cup into head strike machining.

Seat head strike into head strike machining and attach with (2) #8 x 5/8” screws. See Figure 2.

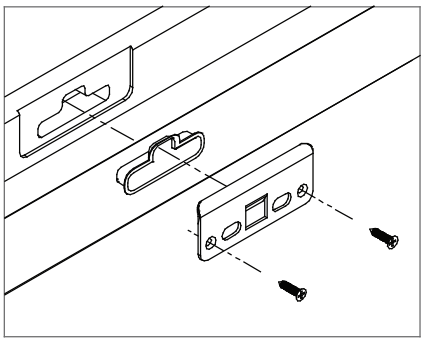


Figure 2

3 SILL STRIKE ASSEMBLY.

Align the sill strike with the pre-drilled holes in the sill.

Attach with (2) #8 x 5/8" screws. See Figure 3.

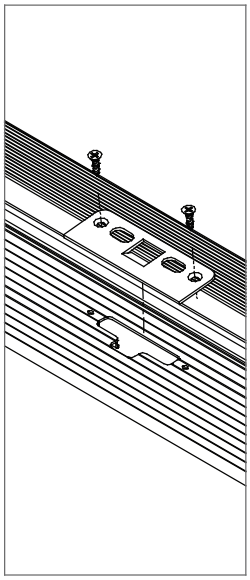


Figure 3

Ship all remaining parts with unit for Site Installation purposes.

AT THE SITE:

1 HEAD STRIKE ASSEMBLY.

Remove the screws from the head strike and replace with (2) #8 x 2-1/2" screws.

Use temporary shims as shown in the Therma-Tru Installation Instructions. See Figure 4.

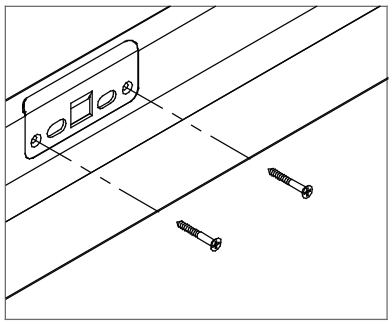


Figure 4

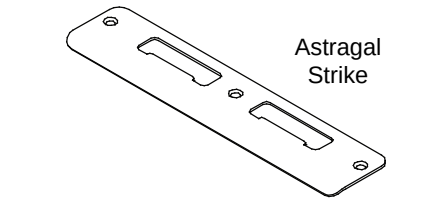
MPLS Strike Installation Instructions Universal Shootbolt

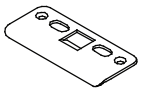
The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

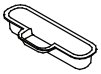
Read all instructions before starting.

Rev. A 10/1/14 P/N: MPLSUNIV

Universal Shootbolt Pack Contents:




Head Strike


Head Water Cup


(5) #8 x 2-1/2" Screws


Socket Strike Cup


(2) #8 x 5/8" Screws

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All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1 ASTRAGAL STRIKE ASSEMBLY.

Insert astragal strike into the machined pocket on the astragal.

Fasten with (3) #8 x 2-1/2” screws. See Figure 1.

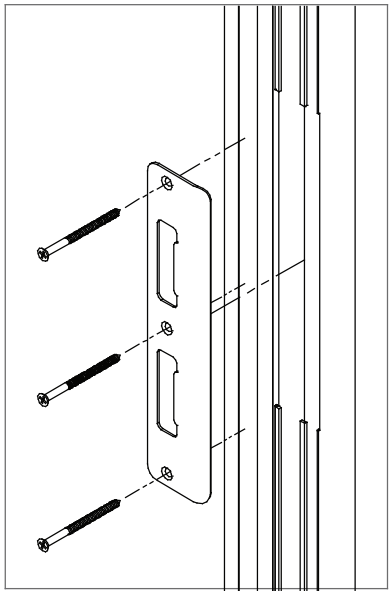


Figure 1

2 HEAD STRIKE ASSEMBLY.

Insert cup into head strike machining.

Seat head strike into head strike machining and attach with (2) #8 x 5/8” screws. See Figure 2.

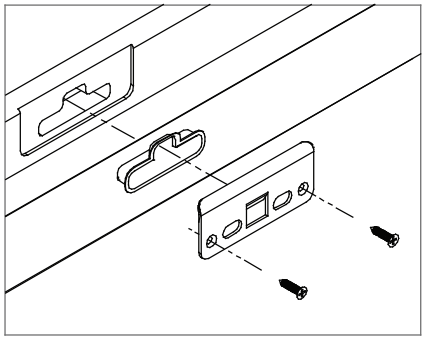


Figure 2

Ship all remaining parts with unit for Site Installation purposes.

MPLS Strike Installation Instructions
Universal Shootbolt

THERMA-TRU DOORS

AT THE SITE:

1 *HEAD STRIKE ASSEMBLY.*

Remove the screws from the head strike and replace with (2) #8 x 2-1/2” screws.

Use temporary shims as shown in the Therma-Tru Installation Instructions. See Figure 3.

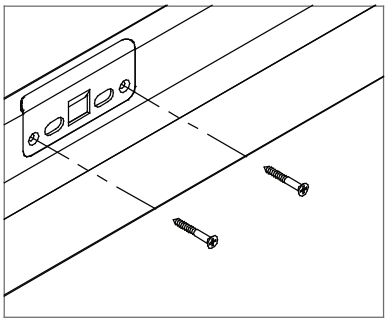


Figure 3

2 *STRIKE CUP ASSEMBLY.*

Mark the hole location in the sill using the tip of the shootbolt as a guide. Drill 9/16” hole through the sill.

Insert the socket strike cup into the hole. See Figure 4.

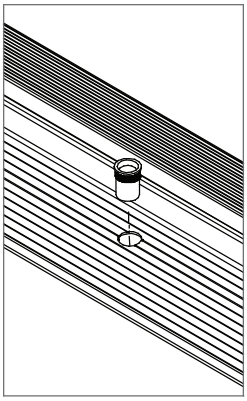


Figure 4

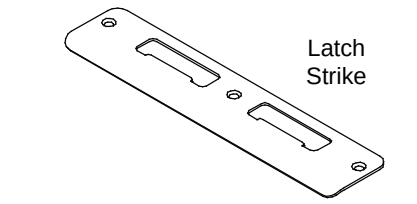
MPLS Strike Installation Instructions Lip Tongue

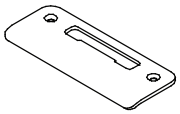
The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

Rev. A 10/1/14 P/N: MPLSLT

Lip Tongue Pack Contents:




(2) Lip Strike


(4) Dust Cap


(7) #8 x 2-1/2" Screws


(7) #8 x 5/8" Screws

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MPLS Strike Installation Instructions
Lip Tongue

All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1a *STANDARD MULLION AND JAMB LATCH STRIKE ASSEMBLY.*

Insert (2) dust covers into the machined pockets in the latch strike machining.

Seat latch strike into the machined pocket.

Fasten with (3) #8 x 2-1/2” screws for a **mullion** or with (3) # 8 x 5/8” screws for a **jamb**. See Figure 1a.

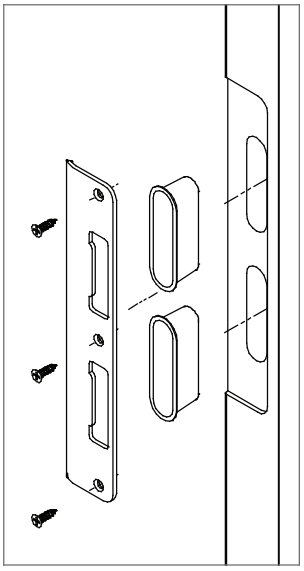


Figure 1a - Jamb

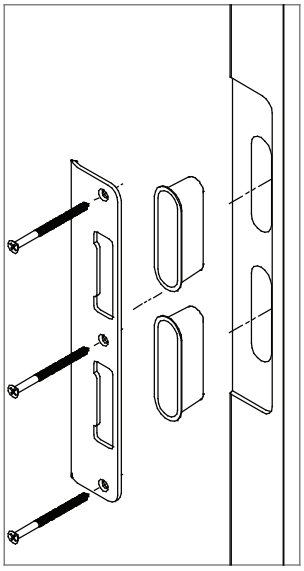


Figure 1a - Mullion

1b *SPREAD MULLION LATCH STRIKE ASSEMBLY.*

Insert (2) dust covers into the machined pockets in the latch strike machining.

Seat latch strike into the machined pocket.

Fasten with (2) #8 x 2-1/2” screws and (1) # 8 x 5/8” screws for a **spread mullion**. See Figure 1b.

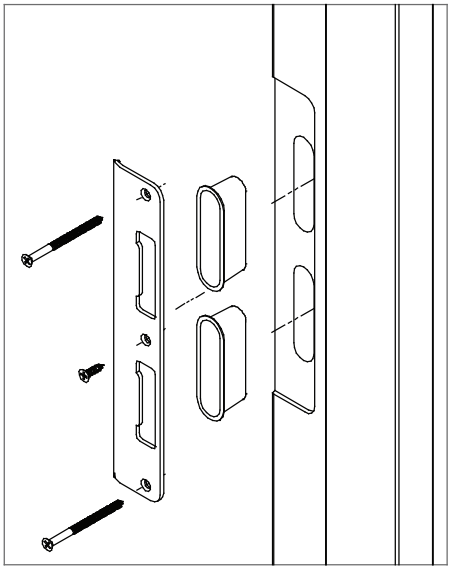


Figure 1b - Spread Mullion

2 TONGUE STRIKE ASSEMBLY.

Insert dust cover into the machined pocket for the tongue strike.

Seat tongue strike into machining.

Fasten with (2) #8 x 2-1/2" screws for a **mullion** or **spread mullion**. Fasten with (2) #8 x 5/8" screws for a **jamb**. See Figure 2.

Repeat for other tongue strike.

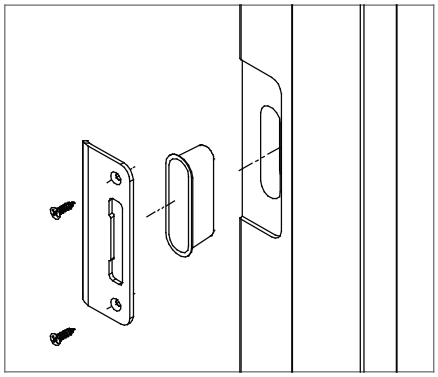


Figure 2 - Jamb

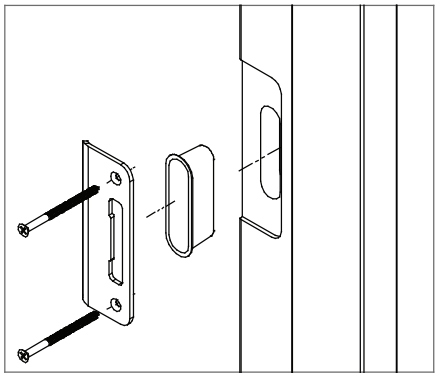


Figure 2 - Mullion and Spread Mullion

Ship all remaining parts with unit for Site Installation purposes.

AT THE SITE:

1 LIP TONGUE ASSEMBLY.

If the multi-point strike is installed in the **jamb**, remove the screws from each strike and replace with #8 x 2-1/2" screws.

Shims as shown in the Therma-Tru Installation Instructions. See Figure 3 and 4.

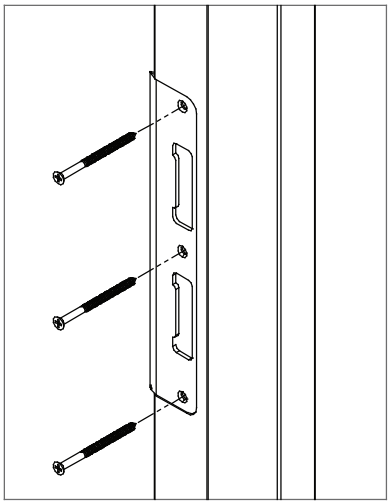


Figure 3

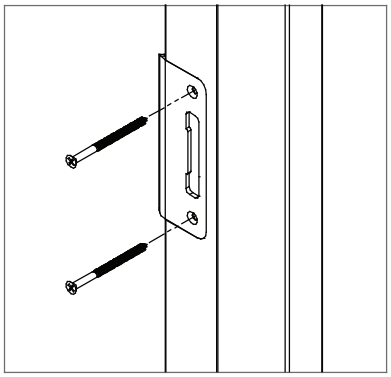


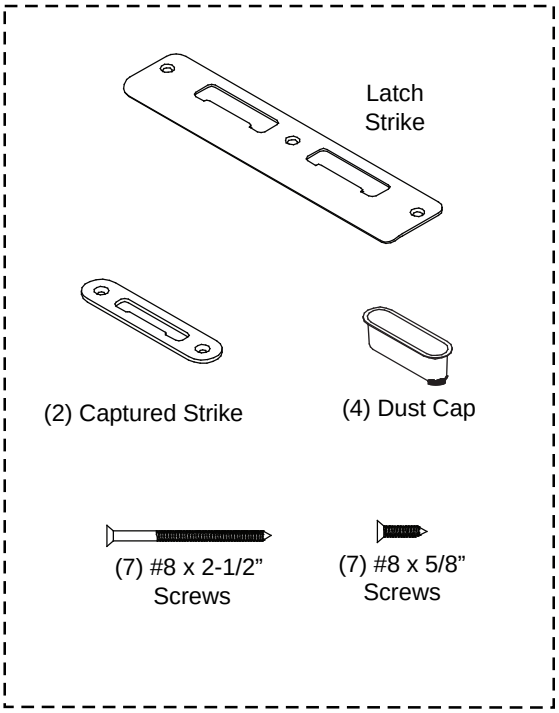
Figure 4

MPLS Strike Installation Instructions Captured Tongue

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

Captured Tongue Pack Contents:



THERMA-TRU DOORS

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All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1a *STANDARD MULLION AND JAMB LATCH STRIKE ASSEMBLY.*

Insert (2) dust covers into the machined pockets in the latch strike machining.

Seat latch strike into the machined pocket.

Fasten with (3) #8 x 2-1/2” screws for a **mullion** or with (3) # 8 x 5/8” screws for a **jamb**. See Figure 1a.

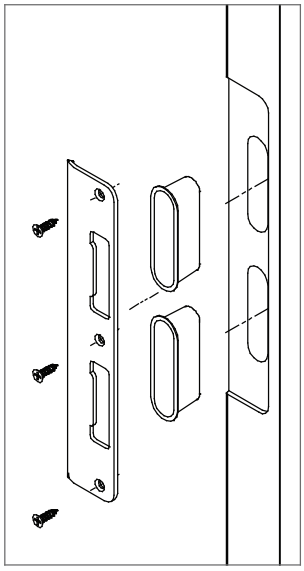

Figure 1a - Jamb

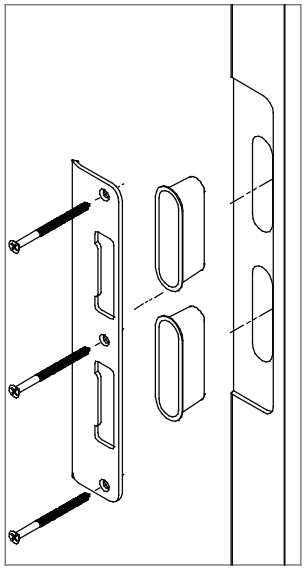

Figure 1a - Mullion

1b *SPREAD MULLION LATCH STRIKE ASSEMBLY.*

Insert (2) dust covers into the machined pockets in the latch strike machining.

Seat latch strike into the machined pocket.

Fasten with (2) #8 x 2-1/2” screws and (1) # 8 x 5/8” screws for a **spread mullion**. See Figure 1b.

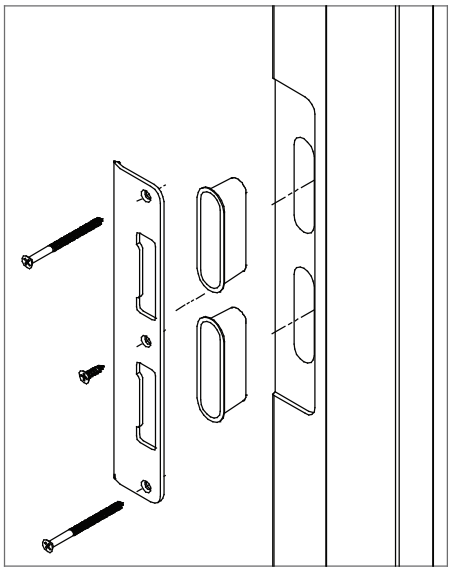

Figure 1b - Spread Mullion

MPLS Strike Installation Instructions Captured

THERMA-TRU DOORS

2 TONGUE STRIKE ASSEMBLY.

Insert dust cover into the machined pocket for the tongue strike.

Seat tongue strike into machining.

Fasten with (2) #8 x 2-1/2” screws for a **mullion** or **spread mullion**. Fasten with (2) #8 x 5/8” screws for a **jamb**. See Figure 2.

Repeat for other tongue strike.

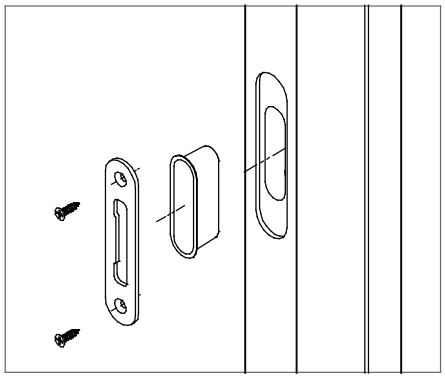

Figure 2 - Jamb

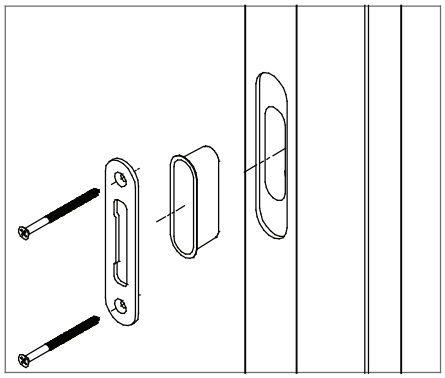

Figure 2 - Mullion and Spread Mullion

Ship all remaining parts with unit for Site Installation purposes.

AT THE SITE:

1 CAPTURED TONGUE ASSEMBLY.

If the multi-point strike is installed in the **jamb**, remove the screws from each strike and replace with #8 x 2-1/2” screws.

Shim as shown in the Therma-Tru Installation Instructions. See Figure 3 and 4.

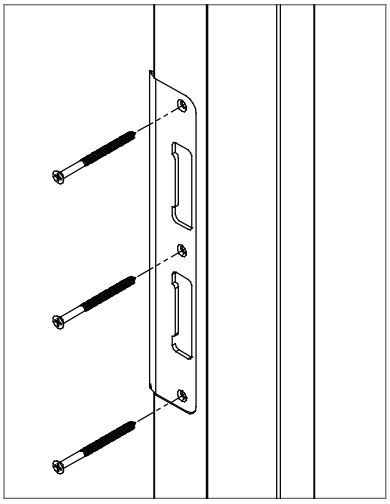

Figure 3

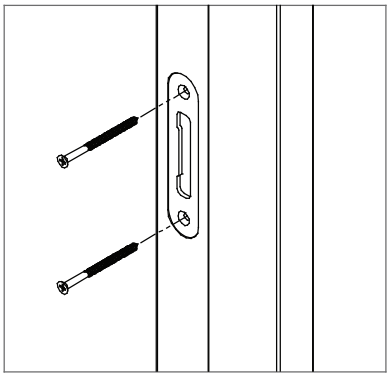

Figure 4

Grip Style MPLS Strike Installation Instructions

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

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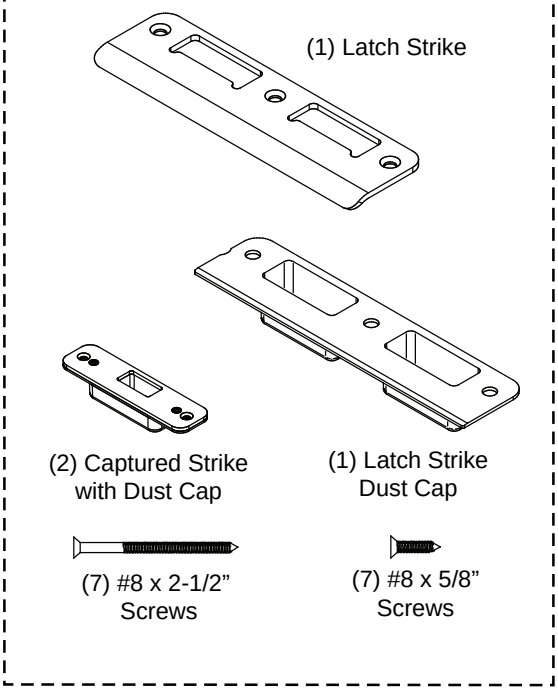
Grip Style MPLS Pack Contents:



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MPLS Strike Installation Instructions Grip Style

All holes should be pre-drilled with 1/8” drill to the appropriate depth.

IN THE SHOP:

1a *STANDARD MULLION AND JAMB LATCH STRIKE ASSEMBLY.*

Insert dust cover into the machined pockets in the latch strike machining.

Seat latch strike into the machined pocket.

Fasten with (3) #8 x 2-1/2” screws for a **mullion** or with (3) # 8 x 5/8” screws for a **jamb**. See Figure 1a.

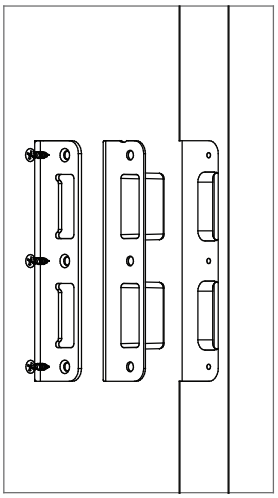


Figure 1a - Jamb

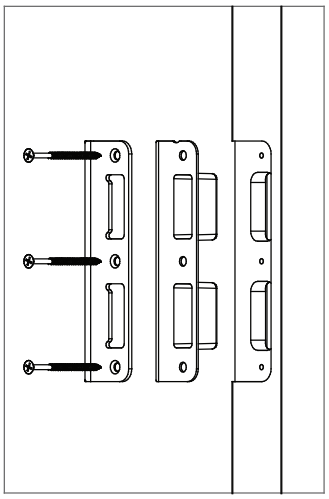


Figure 1a - Mullion

1b *SPREAD MULLION LATCH STRIKE ASSEMBLY.*

Insert dust cover into the machined pockets in the latch strike machining.

Seat latch strike into the machined pocket.

Fasten with (2) #8 x 2-1/2” screws and (1) # 8 x 5/8” screws for a **spread mullion**. See Figure 1b.

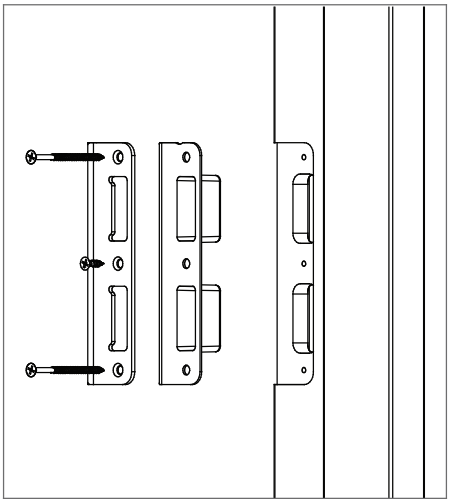


Figure 1b - Spread Mullion

2 TONGUE STRIKE ASSEMBLY.

Seat tongue strike into machining, ensuring that the roller is closest to the jamb edge (pushing toward the weatherstrip).

Fasten with (2) #8 x 2-1/2" screws for a **mullion** or **spread mullion**. Fasten with (2) #8 x 5/8" screws for a **jamb**. See Figure 2.

Repeat for other tongue strike.

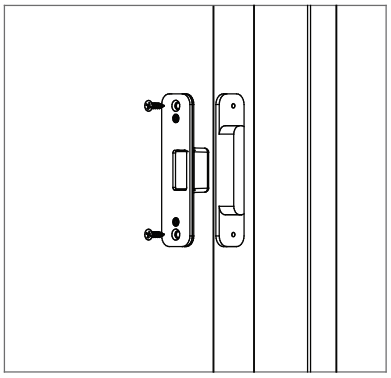


Figure 2 - Jamb

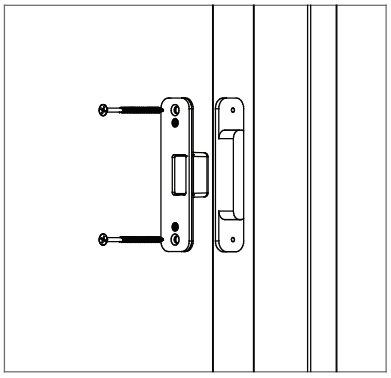


Figure 2 - Mullion and Spread Mullion

Ship all remaining parts with unit for Site Installation purposes.

AT THE SITE:

1 CAPTURED TONGUE ASSEMBLY.

If the multi-point strike is installed in the **jamb**, remove the screws from each strike and replace with #8 x 2-1/2" screws.

Shim as shown in the Therma-Tru Installation Instructions. See Figure 3 and 4.

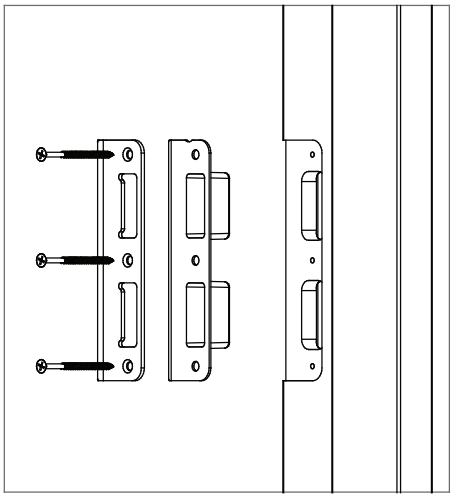


Figure 3

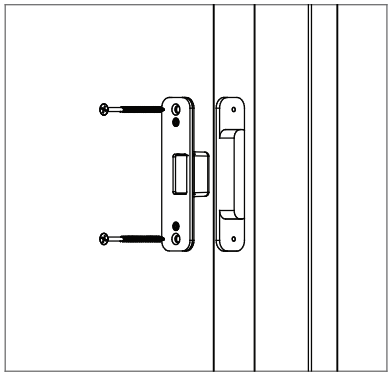


Figure 4

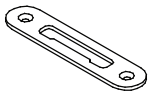
MPLS Strike Installation Instructions Vented Sidelite

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

Rev. A 10/1/14 P/N: MPLSVSL

Vented Sidelite Pack Contents:



(6) Captured Strike

(12) #8 x 1-1/4" Screws

THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

IN THE SHOP:

1 *STRIKE ASSEMBLY.*

Seat latch strike into the machined pocket.

Fasten with (2) #8 x 1-1/4” screws.

Repeat for other strike.

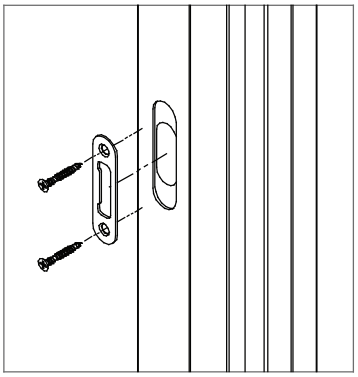


Figure 2

Multi-Point Lock - Lever Style
Quick Tip Sheet & Instructions

THERMA-TRU DOORS

Swing Door Handle Set Installation Instructions

A Phillips screwdriver is required.

A Hex wrench for set screws is provided in the hardware package

To prevent damage to the handle set while in the construction phase, use the enclosed construction handle to operate the door. Lift to engage multipoint to close door. Push down to open the door.

Use water to clean. Do not use brass cleaner as it will remove the protective coating. Brass Strike Plates are Solid Brass and can be polished as needed.

Note: Handles and backplates vary by style but application is the same.

1. Apply the backplate gasket to the inside of the exterior backplate. Push gaskets firmly into place to ensure a tight seal. Attach interior and exterior backplates to the door and fasten loosely with the screws provided. Note: The screw heads must be on the interior side of the door.

2. Mount nylon bushings to door gear handle hole on interior and exterior backplates.

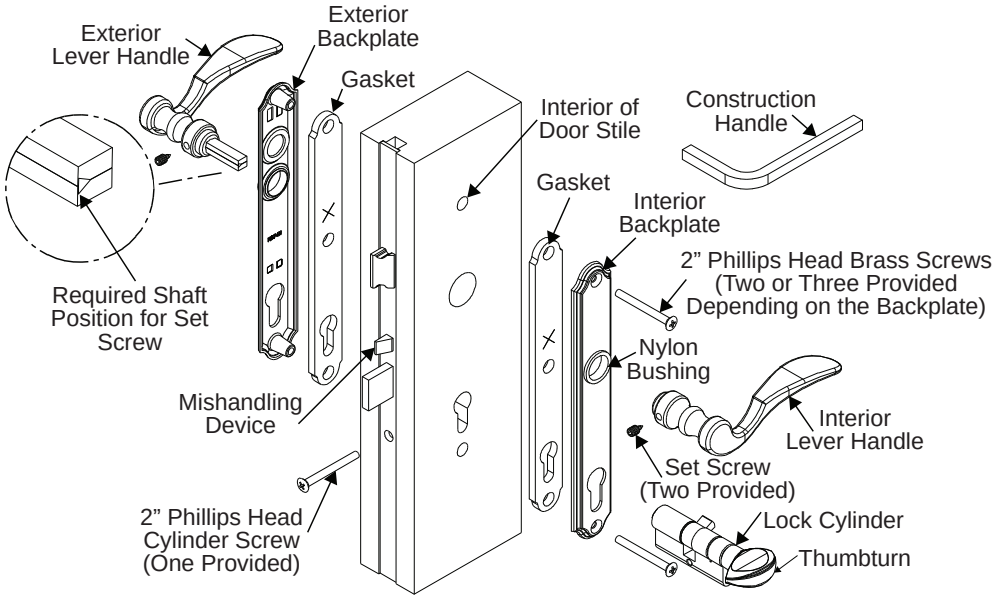
3. Insert the two piece handle shaft into one handle. Be sure to orient the shaft as shown below. Screw the set screw until flush with handle using the allen wrench provided. Insert the handle with the shaft through the backplate and door gear handle hole until extending out opposite side of door.

4. Install remaining handle onto shaft, pressing tightly to the backplates. Tighten the handle set screw with the allen wrench. Screw until flush with handle.

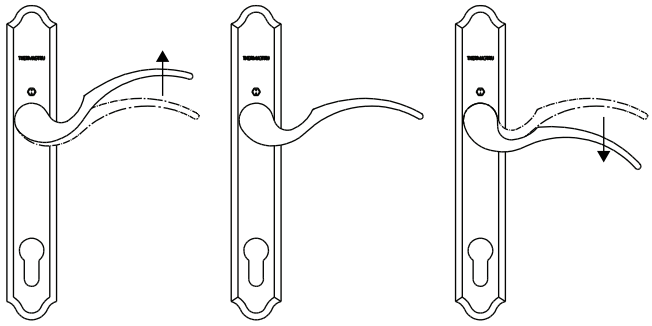
5. Attach thumbturn to cylinder.

6. Insert the keyed cylinder from the interior side of the door until it is flush with the exterior backplate. Install the cylinder screw in the screw hole below the deadbolt in the edge of the door. If passive deadbolt will not turn, it is installed incorrectly. See Installation Instructions for active & passive 90-Degree Cylinder.

7. Tighten the backplate screws.



Swing Door Handle Operation Instructions



To lock system.
Lift handle to engage multipoints prior to engaging deadbolt.

Use key or thumbturn to engage deadbolt.

Handle will automatically return to center position.

To open door, disengage deadbolt with key or thumbturn, push handle down to stop and then open door.

TROUBLESHOOTING GUIDE

Note: To lock door, shootbolts, locking point tongues and deadbolt must all fully extend. Be certain door is square in frame before adjusting other hardware. With the door in the open position, engage system by lifting handle and letting handle return to it's center position. Extend deadbolt by turning thumb turn. If the tongues or shootbolts extend and the deadbolt operates, the handle system is fully functional.

1. SYSTEM WILL NOT OPERATE WHEN YOU LIFT THE HANDLE
Probable Cause: Improper installation of handle set.
Solution: Remove handle and reinstall.
See Handle Set Installation Instructions.

2. SYSTEM OPERATES IN THE OPEN POSITION WHEN YOU LIFT HANDLE BUT NOT IN THE CLOSED POSITION WITH THE DOOR SHUT
Probable Cause: Relationship of door in the frame.
Solution: Check to make sure door is square in the frame.

3. LOCKING POINTS DO NOT EXTEND
Probable Cause: Deadbolt is not fully extending.
Solution: Clear away anything blocking travel of deadbolt (insulation, wood, etc.).

4. DEADBOLT WILL NOT FULLY ENGAGE
Probable Cause: Locking points are not fully engaged. System design does not permit deadbolt operation unless locking points are fully engaged.
Solution: Check system for binding problems. Confirm deadbolt extends fully into strike. Check to confirm locking points are correctly engaging strikes on the frame.

5. THUMBTURN OR KEY WILL NOT TURN
Probable Cause: Backplates may not be on straight
Solution: Confirm that inside and outside holes line up with lockcase. Loosen backplate screws 1/2 turn.

6. SET SCREWS WILL NOT GO INTO HANDLE COMPLETELY
Probable Cause: Shaft is not assembled properly.
Solution: Remove handle to see how shaft is assembled. See Handle Set Installation Instructions for proper assembly and position of shaft.

7. BOTTOM LOCKING POINT MOVES BUT TOP LOCKING POINT DOES NOT
Probable Cause: Top extension drive rail is not connected to the lock gear.
Solution: Remove screws used to attach top extension to the door and the machine screw that attaches it to the lock gear, and remove top extension. Place the end of the drive rail (the "L" shape in the lockcase above the latchbolt, as you slide the top extension into the door. Fasten with a screw at the lockcase and one up higher. Operate the gear to make sure it works. Finish installing the remainder of the screws.

8. KEY DOES NOT WORK IN CYLINDER
Probable Cause: Cylinder was rekeyed incorrectly.
Solution: Check with Builder or Installer to see if cylinder was rekeyed to match other doors in the house. If so, return to locksmith to rekey properly.

Multi-Point Lock - Lever Style
Quick Tip Sheet & Instructions

THERMA-TRU DOORS

INSTALLATION INSTRUCTIONS FOR ACTIVE AND PASSIVE 90-DEGREE CYLINDERS

1. The drive tab (A) must be aligned with the cylinder (B) to install the cylinder into the lock mechanism. If the tab cannot be rotated to this position, push the pin (C) down with the ring wrench (D) by inserting into the top of the slot (C), pushing inward and then pulling downward to disengage the stops. Turn the knob (E) until the drive tab (A) is aligned with the cylinder (B).

2. Holding in this position, insert the cylinder body into door so the tab (A) on the cylinder is inside of the lock.

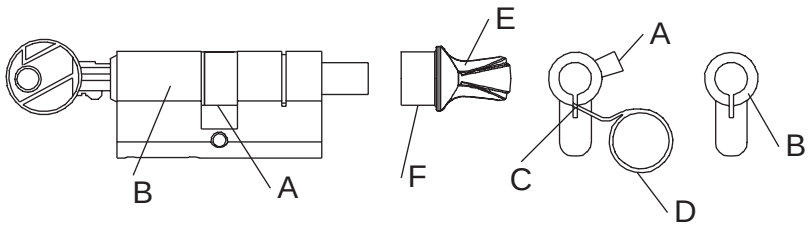
3. Rotate the knob (E) towards the edge of the door so that the tab (A) moves inward toward the door center, the tab (A) will seat properly and allow the deadbolt to extend. On the passive door, if the knob is rotated in the wrong direction, it will rotate approximately 120 degrees and lock up the system. If this happens, push the pin (C) down with the ring wrench (D) to disengage the stops and turn the knob (E) in the opposite direction until the deadbolt extends.

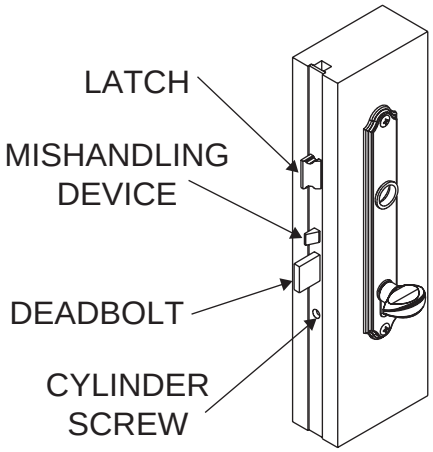
4. NOTE: The passive door cylinder is shorter, has no key on the outside and no deadbolt to extend. If it is properly locked, the handles do not operate.

5. Install cylinder screw into hole in edge of door.

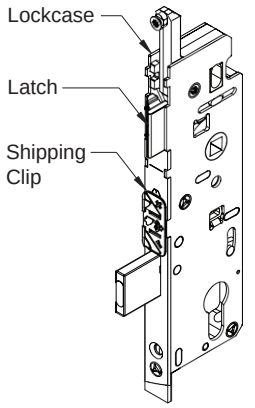
6. If the set screw (F) is at the top of the knob, remove the set screw, reverse the knob 180 degrees and reinstall so the set screw is at the bottom of the knob.

7. To remove cylinder, loosen and remove cylinder screw and repeat step 1 and slide cylinder from door.

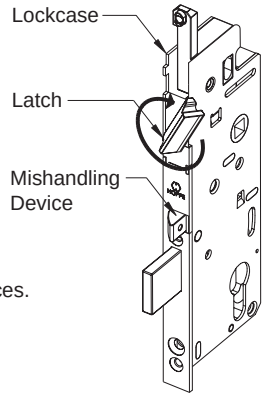




LATCH AND MISHANDLING DEVICE ADJUSTMENT (LEVER STYLE)

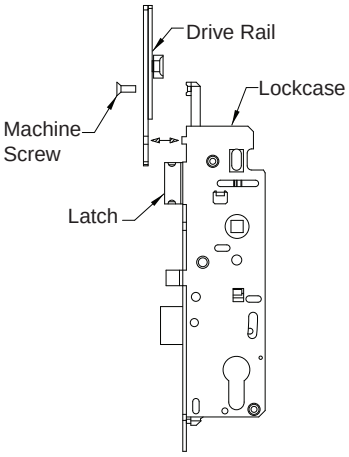


1. Remove shipping clip.
2. Make sure sloped sides of latch and mishandling device are aligned and will engage the strike plate. If they do not, pull them out until they clear the lockcase and spin 180 degrees, then release back into the lockcase, as shown in image below.
3. If done in the shop, replace shipping clip over the mishandling device. If done in the field, do not replace shipping clip.



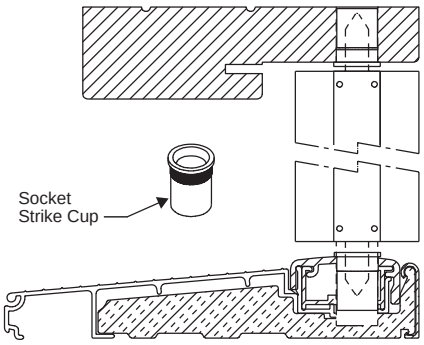
CAUTION:
Do not remove torx screws under any circumstances. They are not a field servicable item.

ATTACHING TOP EXTENSION (LEVER STYLE)



Hook drive rail of top extension into gear linkage just above latch.

SOCKET STRIKE INSTALLATION



1. Mark hole location using tip of shootbolts as guides.
2. Drill 9/16” hole at marks through jamb and sill.
3. Insert Socket Strike Cup into 9/16” holes at head jamb and sill.

NOTE: Door WILL NOT lock unless bolts are fully extended.

June 2009 Part# BMTTMPLQT

Multi-Point Lock - Lever Style
Quick Tip Sheet & Instructions

THERMA-TRU DOORS

Instrucciones para el juego de manijas de puerta batiente

Necesita un destornillador Phillips

En el paquete de accesorios se suministra una llave hexagonal para tornillos de fijación.

Para evitar el daño al juego de manijas durante la fase de construcción, utilice la manija de construcción que se suministra para hacer funcionar la puerta. Levante para enganchar la cerradura multipunto para cerrar la puerta. Presione hacia abajo para abrir la puerta.

Utilice agua para limpiar. No utilice limpiador de latón porque retirará el revestimiento protector. Las placas de la cerradura son de latón sólido y pueden pulirse según sea necesario.

Nota: Las manijas y las placas posteriores pueden variar de estilo pero la aplicación es la misma.

1. Aplique la guarnición de la placa posterior a la parte interior de la placa posterior externa. Presione las guarniciones firmemente en su lugar para lograr un ajuste adecuado. Fije las placas posteriores internas y externas a la puerta y ajuste sin apretar con los tornillos que se suministran. Nota: Las cabezas de los tornillos deberán estar en el lado interno de la puerta.

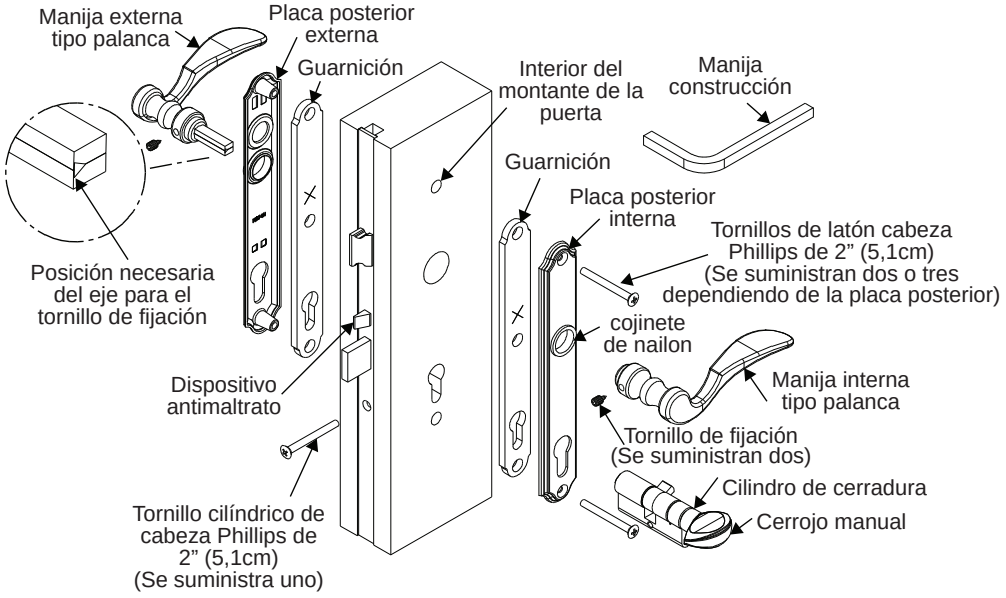
2. Monte los cojinetes de nailon en el agujero del mecanismo de la manija de la puerta en las placas posteriores internas y externas.

3. Inserte el eje de la manija de dos piezas en una manija. Cerciórese de orientar el eje como se ilustra. Atornille el tornillo de fijación hasta que quede a ras con la manija utilizando la llave Allen que se suministra. Inserte la manija con el eje a través de la placa posterior y del agujero del mecanismo de la manija de la puerta hasta que salga por el lado opuesto de la puerta.

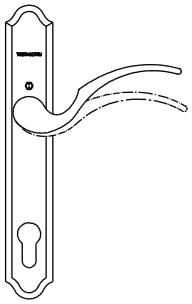
4. Instale la manija restante en el eje, presionando firmemente en las placas posteriores. Apriete el tornillo de fijación de la manija con la llave Allen. Atornille hasta que quede a ras con la manija.

5. Fije el cerrojo manual al cilindro.

6. Inserte el cilindro programado desde el lado interior de la puerta hasta que quede a ras con la placa posterior externa. Coloque el tornillo del cilindro en el agujero del tornillo debajo de la cerradura de doble seguridad en el borde de la puerta. Si la cerradura de doble seguridad pasiva no gira, está instalada incorrectamente. Refiérase a las instrucciones de instalación para cilindros activos y pasivos de 90 grados.

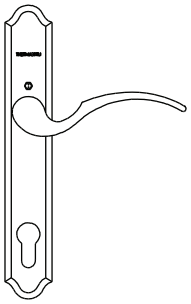


Instrucciones de funcionamiento para la manija de puerta batiente

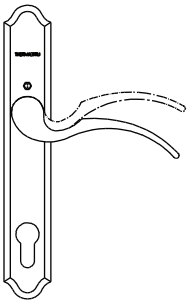


Para trancar el sistema. Levante la manija para enganchar los multipuntos antes de enganchar la cerradura de doble seguridad.

Utilice la llave o el cerrojo manual para enganchar la cerradura de doble seguridad.



La manija regresará automáticamente a la posición central.



Para abrir la puerta, desenganche la cerradura de doble seguridad con la llave o el cerrojo manual, empuje la manija hacia abajo para parar y luego abra la puerta.

GUÍA PARA LA LOCALIZACIÓN Y SOLUCIÓN DE PROBLEMAS

Nota: Para trancar la puerta, los pernos deslizantes, las lengüetas con punto de tranca y la cerradura de doble seguridad deberán estar totalmente extendidos. Cerciórese de que la puerta esté a escuadra con el marco antes de ajustar los accesorios metálicos. Con la puerta en la posición abierta, enganche el sistema levantando la manija y dejando que regrese a su posición central. Extienda la cerradura de doble seguridad girando el cerrojo manual. Si las lengüetas o los pernos deslizantes se extienden y la cerradura de doble seguridad funciona, el sistema de manijas está totalmente funcional.

1. EL SISTEMA NO FUNCIONA CUANDO LEVANTA LA MANIJA
Causa probable: Instalación inadecuada del juego de manijas.
Solución: Retire la manija y vuelva a instalar. Refiérase a las instrucciones de instalación del juego de manijas.

2. EL SISTEMA FUNCIONA EN LA POSICIÓN ABIERTA CUANDO LEVANTA LA MANIJA PERO NO EN LA POSICIÓN CERRADA CON LA PUERTA TRANCADA
Causa probable: La relación de la puerta con el marco.
Solución: Verifique para comprobar que la puerta esté a escuadra con el marco.

3. LOS PUNTOS DE TRANCA NO SE EXTIENDEN
Causa probable: la cerradura de doble seguridad no se extiende totalmente.
Solución: Despeje cualquier obstáculo que esté en el camino de la cerradura de doble seguridad (aislante, madera, etc.).

4. LA CERRADURA DE DOBLE SEGURIDAD NO ENGANCHA COMPLETAMENTE
Causa probable: Los puntos de tranca no están completamente enganchados El diseño del sistema no permite el funcionamiento de la cerradura de doble seguridad a menos que los puntos de tranca estén completamente enganchados.
Solución: Revise el sistema en busca de problemas de desplazamiento. Confirme que la cerradura de doble seguridad se inserta completamente en la hembra de la cerradura. Revise para confirmar si los puntos de trance están enganchando correctamente en el marco.

5. EL CERROJO MANUAL O LA LLAVE NO GIRAN
Causa probable: Las placas posteriores puede que no estén derechas
Solución: Confirme que los agujeros internos y externos estén alineados con la caja de la cerradura. Afloje ½ vuelta los tornillos de la placa posterior.

6. LOS TORNILLOS DE FIJACIÓN NO PENETRAN EN LA MANIJA COMPLETAMENTE
Causa probable: El eje no está ensamblado adecuadamente.
Solución: Retire la manija para ver como está ensamblado el eje. Refiérase a las instrucciones de instalación del juego de manijas para el ensamblaje adecuado y la posición del eje.

7. EL PUNTO DE TRANCA INFERIOR SE MUEVE PERO EL PUNTO SUPERIOR DE TRANCA NO
Causa probable: La barra impulsora de extension superior no está conectada al mecanismo de la cerradura.
Solución: Retire los tornillos utilizados para fijar la extensión superior a la puerta y el tornillo para metals que la fija al mecanismo de la cerradura, y retire la extensión superior. Coloque el extremo de la barra impulsora (la forma “L” de la caja de la cerradura sobre el picaporte de resbalón, a medida que desliza la extensión superior en la puerta. Asegure con un tornillo en la caja de la cerradura y otro más alto. Haga funcionar el mecanismo para confirmar que trabaja bien. Termine de colocar el resto de los tornillos.

8. LA LLAVE NO FUNCIONA EN EL CILINDRO
Causa probable: El cilindro fue reprogramado incorrectamente.
Solución: Revise con un constructor o instalador para comprobar si el cilindro fue reprogramado igual que las otras puertas de la casa. Si es así, regrese a la cerrajería para que se lo reprogramen adecuadamente.

Multi-Point Lock - Lever Style
Quick Tip Sheet & Instructions

THERMA-TRU DOORS

INSTRUCCIONES DE INSTALACIÓN PARA CILINDROS ACTIVOS Y PASIVOS DE 90 GRADOS

1. La lengüeta impulsora (A) deberá estar alineada con el cilindro (B) para instalar el cilindro en el mecanismo de tranca. Si la lengüeta no puede rotarse a esta posición, presione la clavija (C) hacia abajo con la llave de aro (D) insertando en la parte superior de la ranura (C), presionando hacia adentro y luego halando hacia abajo para desenganchar los topes. Gire la perilla (E) hasta que la lengüeta impulsora (A) esté alineada con el cilindro (B).

2. Sosteniéndola en esta posición inserte el cuerpo del cilindro en la puerta de modo que la lengüeta (A) del cilindro esté dentro de la cerradura.

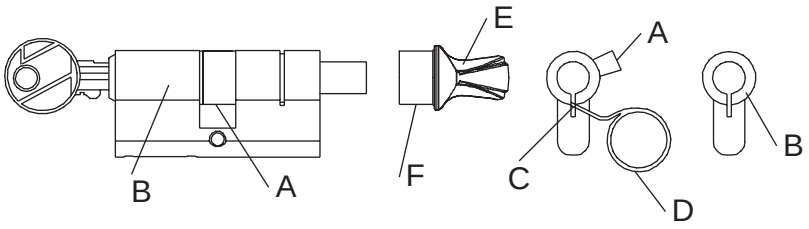
3. Gire la perilla (E) hacia el borde de la puerta de modo que la lengüeta (A) se mueva hacia dentro hacia el centro de la puerta, la lengüeta (A) se asentará adecuadamente y permitirá que la cerradura de doble seguridad se extienda. En la puerta pasiva, si la perilla se ha rotado en la dirección incorrecta, rotará aproximadamente 120 grados y trancará el sistema. Si esto ocurre, presione el pasador (C) hacia abajo con la llave de aro (D) para desenganchar los topes y gire la perilla (E) en la dirección opuesta hasta que la cerradura de seguridad se extienda.

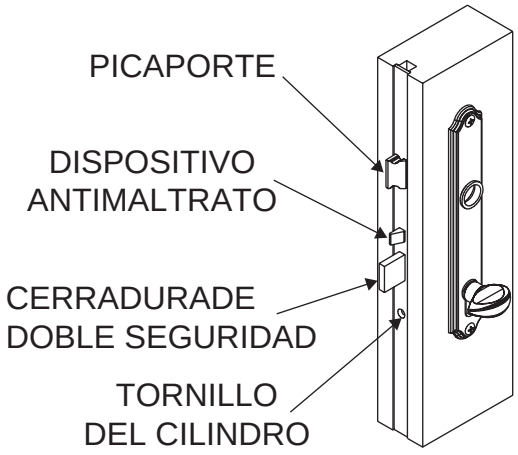
4. NOTA: El cilindro de la puerta pasiva es más corto, no tiene llave en la parte externa y no tiene cerradura de seguridad que se extienda. Si está adecuadamente cerrada, las manijas no funcionan.

5. Coloque el tornillo del cilindro en el agujero en el borde de la puerta.

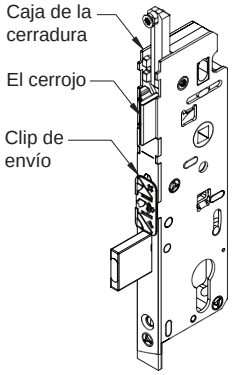
6. ISi el tornillo de fijación (F) está en la parte superior de la perilla, retire el tornillo de fijación, reverse la perilla 180 grados y vuelva a instalar de modo que el tornillo de fijación esté en la parte inferior de la perilla.

7. Para retirar el cilindro, afloje y retire el tornillo del cilindro, repita el paso 1 y saque el

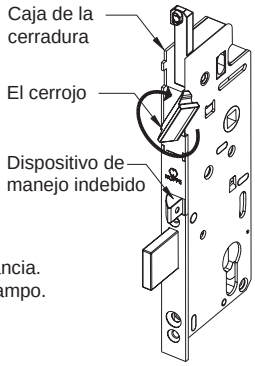




ADJUSTE DEL DISPOSITIVO LATCH Y MAL MANEJO (ESTILO DE LA PALANCA)

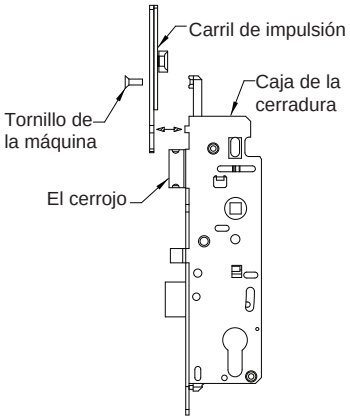


1. Quitar clip de envío.
2. Asegúrese de que los lados inclinados del pestillo y el dispositivo de mal manejo se alinean y enganchan la placa de la huelga. Si no, sacarlos hasta que despejen el cerradura y girar 180 grados, luego suéltelo de nuevo en el cerradura, como se muestra en la imagen de abajo.
3. Si se hace en la tienda, Reemplace el clip de envío sobre el mal manejo del dispositivo. Si se hace en el campo, No reemplace el clip de envío.



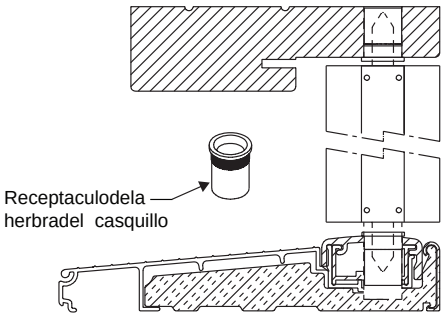
PRECAUCIÓN:
No quite los tornillos Torx bajo ninguna circunstancia.
No son un artículo que se pueda reparar en el campo.

FIJACIÓN DE LA EXTENSIÓN SUPERIOR (ESTILO DE LA PALANCA)



Carril de impulsión del gancho de la extensión superior en el acoplamiento del engranaje sobre el cierre.

INSTALACIÓN DE LA HEMBRA DEL CASQUILLO



1. Marque la ubicación del agujero utilizando la punta del perno deslizante como guìa.
2. Taladre agujeros de 9/16” (1,4 cm) en las marcas a través de la jamba y la solera.
3. Inserte el receptáculo de la hembra del casquillo en los agujeros de 9/16” (1,4 cm) en la jamba superior y la solera.

NOTA: la puerta NO trancará a menos que ambos pernos estén totalmente extendidos.

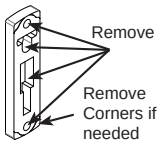
Junio 2009 Numero de parte de BMTTMPLQT

Installation Instruction Sheet For Grip-Style Multi-Point Locking System Handle Set

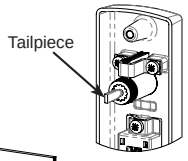
A Phillips screwdriver and 6mm Hex Wrench is required.
Use only water and a soft cloth to clean trim. Do not use brass cleaner or solvent-based cleaning agent, as it will remove the protective coating.
Note: Handles and backplates vary by style but the application is the same.

1. Make sure locking system is fully unlocked before proceeding with trim installation.

2. Remove inserts from the Gasket material to match the backplate. Position one Gasket into each backplate.

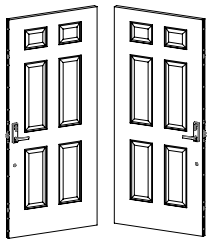


3. Fully rotate the tailpiece until it is vertical, as illustrated below



Interior Handle on Left:

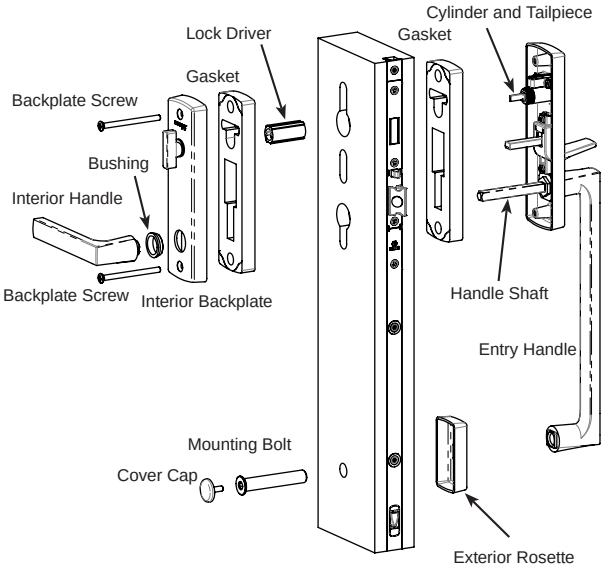
Clockwise



Interior Handle on Right:

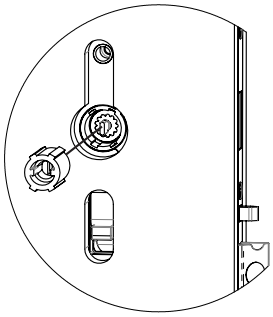
Counter-Clockwise

4. Install Exterior Rosette.
5. Install Exterior Handle into the door.



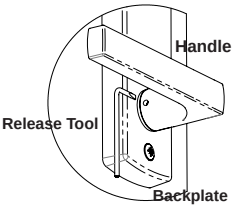
6. Install Mounting Bolt through door into bottom of Entry Handle and tighten with a 6mm hex wrench just before snug, leaving a few turns for later tightening.

7. Install the Lock Driver on the Tail Piece of the Cylinder as shown.



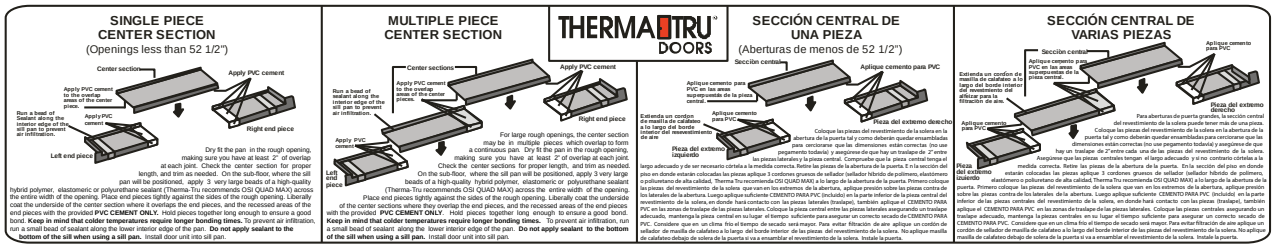
8. Guide Interior Backplate into place, aligning Thumb Turn with Slots on Lock Driver.
9. Fasten Backplates with 2 Backplate Screws provided with a Phillips screwdriver. At this time from step 6, tighten mounting bolt a ½ turn once bolt head contacts door. DO NOT OVER-TIGHTEN.
10. Screw Cover Cap into head of Mounting Bolt and hand tighten.
11. Install Bushing and then Interior Handle by pressing the handle on the Handle Shaft.

How to Remove the Handle Instructions



1. Place chamfered end of tool into hole on the side of the handle neck.
2. Push Release Tool in until it firmly seats.
3. Pull handle off the shaft and backplate.

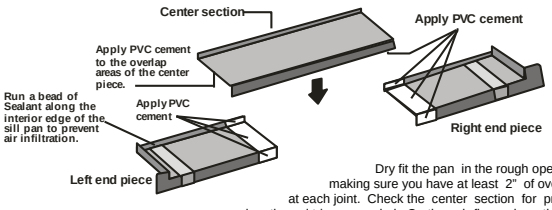
Note: A small 3/32" (.098 or 2.5mm) flat head screw driver can be used in place of Release Tool.



Label enlarged for clarity.

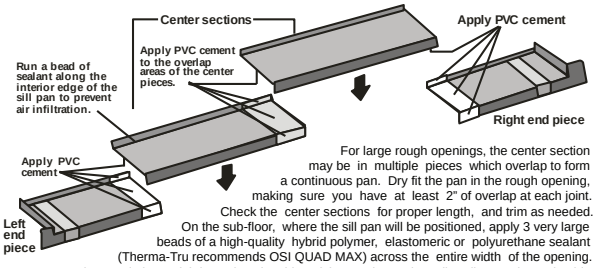
SINGLE PIECE CENTER SECTION

(Openings less than 52 1/2")



Dry fit the pan in the rough opening, making sure you have at least 2" of overlap at each joint. Check the center section for proper length, and trim as needed. On the sub-floor, where the sill pan will be positioned, apply 3 very large beads of a high-quality hybrid polymer, elastomeric or polyurethane sealant (Therma-Tru recommends OSI QUAD MAX) across the entire width of the opening. Place end pieces tightly against the sides of the rough opening. Liberally coat the underside of the center section where it overlaps the end pieces, and the recessed areas of the end pieces with the provided **PVC CEMENT ONLY.** Hold pieces together long enough to ensure a good bond. **Keep in mind that colder temperatures require longer bonding times.** To prevent air infiltration, run a small bead of sealant along the lower interior edge of the pan. **Do not apply sealant to the bottom of the sill when using a sill pan.** Install door unit into sill pan.

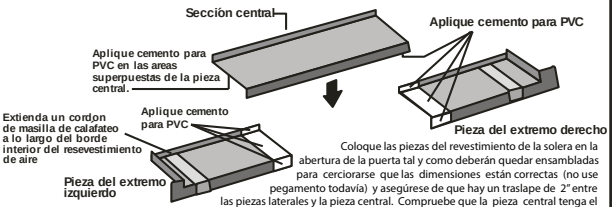
MULTIPLE PIECE CENTER SECTION



For large rough openings, the center section may be in multiple pieces which overlap to form a continuous pan. Dry fit the pan in the rough opening, making sure you have at least 2" of overlap at each joint. Check the center sections for proper length, and trim as needed. On the sub-floor, where the sill pan will be positioned, apply 3 very large beads of a high-quality hybrid polymer, elastomeric or polyurethane sealant (Therma-Tru recommends OSI QUAD MAX) across the entire width of the opening. Place end pieces tightly against the sides of the rough opening. Liberally coat the underside of the center sections where they overlap the end pieces, and the recessed areas of the end pieces with the provided **PVC CEMENT ONLY**. Hold pieces together long enough to ensure a good bond. **Keep in mind that colder temperatures require longer bonding times.** To prevent air infiltration, run a small bead of sealant along the lower interior edge of the pan. **Do not apply sealant to the bottom of the sill when using a sill pan.** Install door unit into sill pan.

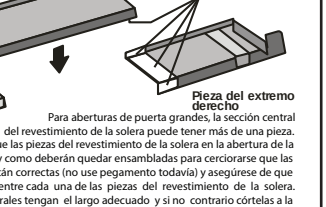
SECCIÓN CENTRAL DE UNA PIEZA

(Aberturas de menos de 52 1/2")



Coloque las piezas del revestimiento de la solera en la abertura de la puerta tal y como deberán quedar ensambladas para cerciorarse que las dimensiones están correctas (no use pegamento todavía) y asegúrese de que hay un traslape de 2" entre las piezas laterales y la pieza central. Compruebe que la pieza central tenga el largo adecuado y de ser necesario córtela a la medida correcta. Retire las piezas de la abertura de la puerta. E n la sección del piso en donde estarán colocadas las piezas aplique 3 cordones gruesos de sellador (sellador híbrido de polímero, elastómero o poliuretano de alta calidad, Therma Tru recomienda OSI QUAD MAX) a lo largo de la abertura de la puerta. Primero coloque las piezas del revestimiento de la solera que van en los extremos de la abertura, aplique presión sobre las piezas contra de los laterales de la abertura. Luego aplique suficiente CEMENTO PARA PVC (incluido) en la parte inferior de la pieza central del revestimiento de la solera, en donde hará contacto con las piezas laterales (traslape), también aplique el CEMENTO PARA PVC en las zonas de traslape de las piezas laterales. Coloque la pieza central entre las piezas laterales asegurando un traslape adecuado, mantenga la pieza central en su lugar el tiempo suficiente para asegurar un correcto secado de CEMENTO PARA PVC. Considere que en un clima frío el tiempo de secado será mayor. Para evitar filtración de aire aplique un cordón de sellador de masilla de calafateo a lo largo del borde interior de las piezas del revestimiento de la solera. No aplique masilla de calafateo debajo de solera de la puerta si va a ensamblar el revestimiento de la solera. Instale la puerta.

SECCIÓN CENTRAL DE VARIAS PIEZAS



Para aberturas de puerta grandes, la sección central del revestimiento de la solera puede tener más de una pieza. Coloque las piezas del revestimiento de la solera en la abertura de la puerta tal y como deberán quedar ensambladas para cerciorarse que las dimensiones están correctas (no use pegamento todavía) y asegúrese de que hay un traslape de 2"entre cada una de las piezas del revestimiento de la solera. Asegúrese que las piezas centrales tengan el largo adecuado y si no contrario córtelas a la medida correcta. Retire las piezas de la abertura de la puerta. En la sección del piso en donde estarán colocadas las piezas aplique 3 cordones gruesos de sellador (sellador híbrido de polímero, elastómero o poliuretano de alta calidad, Therma Tru recomienda OSI QUAD MAX) a lo largo de la abertura de la puerta. Primero coloque las piezas del revestimiento de la solera que van en los extremos de la abertura, aplique presión sobre las piezas contra de los laterales de la abertura. Luego aplique suficiente CEMENTO PARA PVC (incluido) en la parte inferior de las piezas centrales del revestimiento de la solera, en donde hará contacto con las piezas (traslape), también aplique el CEMENTO PARA PVC en las zonas de traslape de las piezas laterales. Coloque las piezas centrales asegurando un traslape adecuado, mantenga la piezas centrales en su lugar el tiempo suficiente para asegurar un correcto secado de CEMENTO PARA PVC. Considere que en un clima frío el tiempo de secado será mayor. Para evitar filtración de aire aplique un cordón de sellador de masilla de calafateo a lo largo del borde interior de las piezas del revestimiento de la solera. No aplique masilla de calafateo debajo de solera de la puerta si va a ensamblar el revestimiento de la solera. Instale la puerta.

Site Installation Instructions for Aluminum Astragal

Double Bore

The following instructions should be completed at the unit installation site.

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation (some parts will be left over).

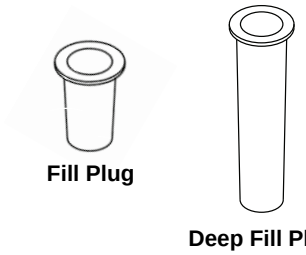
Read all instructions before starting.

THERMA-TRU DOORS

Rev. C 2/4/16

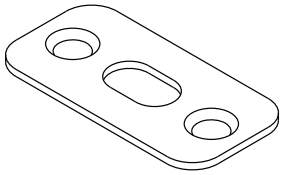
P/N: ALASTSITEINST-R

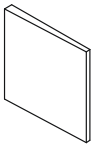
Aluminum Astragal Site Pack Contents



Fill Plug

Deep Fill Plug





(1) Corner Seal Pad

(2) Keeper Plate

(2) #8 x 1-1/4”
Flat Head Screws
Keeper Plate Screws (Sill)

(2) #8 x 2-1/2”
Flat Head Screws
Keeper Plate Screws (Head)

THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

1 APPLY SEALANT AND MARK SLIDE BOLT ENDS.

Extend slide bolts and place sealant on each tip. Sealant will be used to mark hole locations. See Figure 1.

Retract bolt.

With inactive door held in closed position, and door flush with frame, extend slide bolts to mark head and sill.

Retract bolts.

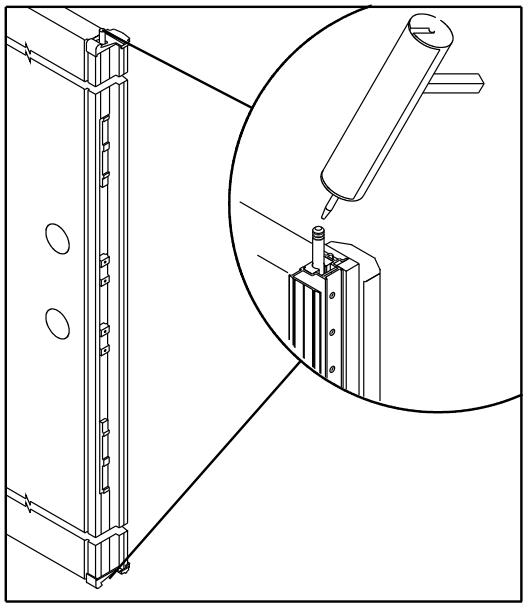


Figure 1

2a INSTALL SILL BOLT KEEPER PLATE. (for **DP40** structural applications)

Open door. Place the sill keeper plate on the sill saddle so that the marked location for the slide bolt is visible. Locate the sill keeper plate where the edge is flush with the outside edge of the flat section on the sill saddle. See Figure 2.

Drill 1/8" diameter pilot hole through sill saddle 2 1/4" deep for the slide bolt. Drill 1/2" diameter hole through sill saddle 2-1/4" deep using pilot hole as guide. If sub-floor material is masonry, a 1/2" diameter masonry bit will be needed to complete hole.

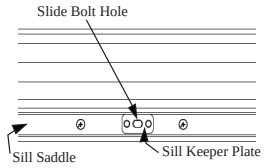


Figure 2 Top View

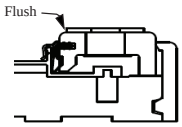


Figure 2 Side View

Apply significant amount of sealant to sill hole to seal subfloor interface area.

Apply additional sealant to underside of lip on sill plug. See Figure 3.

Insert Deep Fill Plug into the sill. Fit should be tight, sealant will act as adhesive.

Align sill keeper plate center hole with plug. Pre-drill screw holes 1/8" diameter by 1 1/4" deep.

Fasten the sill keeper plate with (2) #8 1-1/4" screws. See Figure 4.

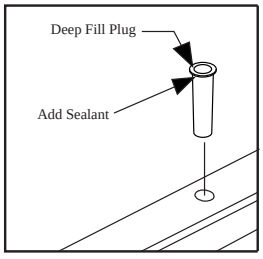


Figure 3

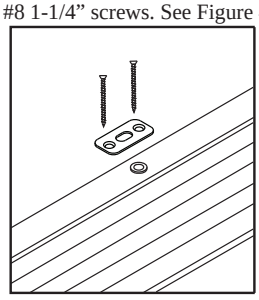


Figure 4

Paintable & Stainable Astragal Site Installation Instructions

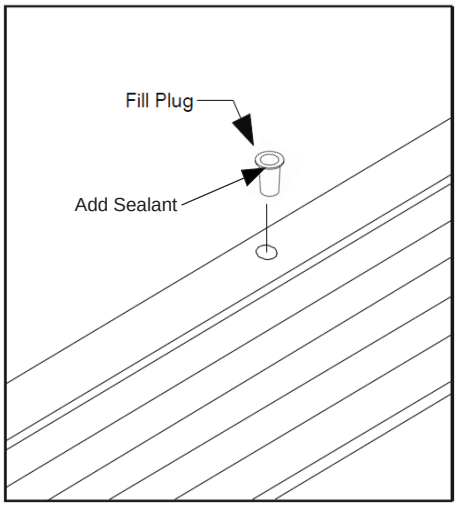
THERMA-TRU® DOORS

2b INSTALL ASTRAGAL FILL PLUG.
*(for **non DP40** structural applications)*

Drill 1/8" diameter pilot hole through sill saddle 7/8" deep for the slide bolt at marked location. Drill 7/16" diameter hole through sill saddle 7/8" deep using pilot hole as guide.

Apply sealant to underside of lip on sill plug.

Install Fill Plug into sill. Fit should be tight, sealant will act as adhesive.



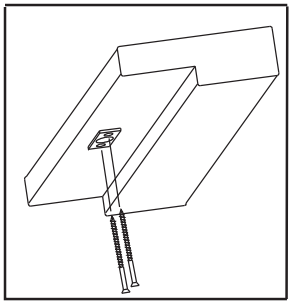
3 INSTALL HEAD BOLT KEEPER PLATE.

Open door and and locate the marked location from Step 1. Drill a 3/8" diameter hole 2" deep in the marked location.

Place the head keeper plate on the head jamb so that the hole location for the slide bolt is visible.

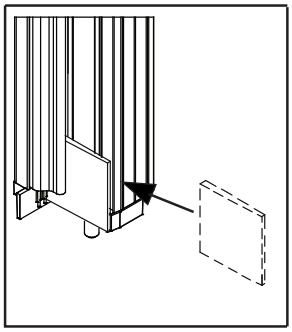
Align head keeper plate center hole with hole. Pre-drill screw holes 1/8" diameter by 2 1/2" deep.

Fasten the head keeper plate with (2) #8 x 2-1/2" screws.



4 INSTALL ASTRAGAL CORNER PAD.

Remove paper backing from corner seal pad. Align the pad with the bottom of the boot and the inside edge of the astragal. Apply the pad by pressing it against the astragal.



Shop/Site Installation Instructions for Aluminum Astragal

Multi-Point

The following instructions should be completed in the door shop. Check to see that the astragal shop/site pack are included with this unit. The pack contains all the necessary hardware and fasteners needed to complete this installation. Send corner seal pad, flat head screws, and instructions along with the unit to the job site.

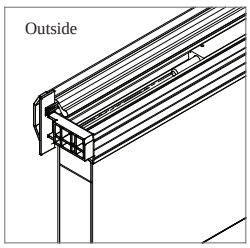
Read all instructions before starting.
Wear proper PPE while working with astragals.

THERMA-TRU DOORS

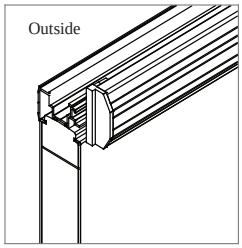
Rev. E 2/4/16
P/N: ALASTMPLSASMINST-R

1 AT THE SHOP

Align the bottom of the aluminum astragal body to the bottom of the door slab.
For inswing units, the boot will overhang the door to align with the door sweep.
For outswing units, the boot will sit subflush to the end of the door.
Align the exterior edge tight to the outside surface of the door.



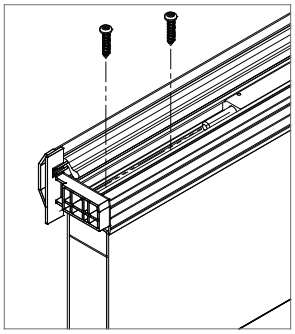
Inswing



Outswing

2

Pre-drill the two end holes with a 1/8” bit. Fasten in place with two pan head screws.


Inswing Shown

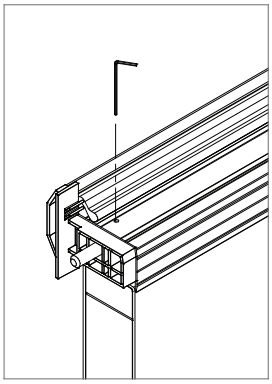
Paintable & Stainable Astragal Site Installation Instructions

THERMA-TRU® DOORS

3

Loosen both set screws to allow the hardware to slide freely.

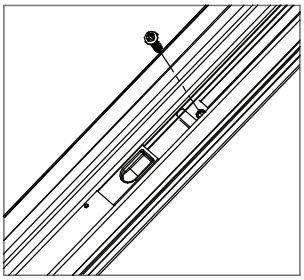
Move the retainer, bolt, and spring clip together as one unit and align the end of the retainer to the end of the astragal. Tighten the set screw closest to the end.



Inswing Shown

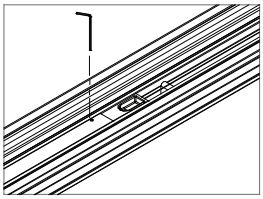
4

Align the hole in the spring clip with the hole in the astragal. Pre-drill this hole with a 1/8” bit. Fasten in place with one pan head screw.



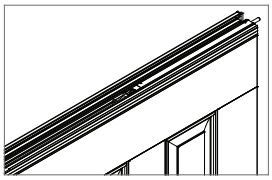
5

Tighten the set screw closest to the slide bolt handle. This step is critical to the performance of the astragal in the field.



6

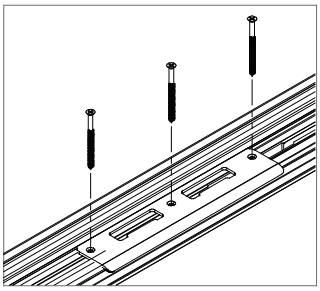
Repeat steps 2-5 to fasten the top slide bolt assembly.



7

Remove the long strike plate and three #8 x 2 1/2” flat head screws from the strike pack.

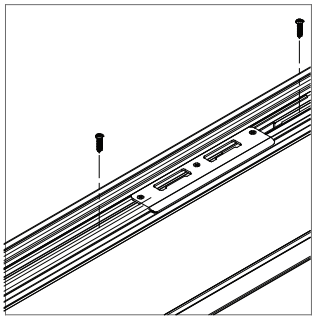
Align the strike plate with the machined pocket in the astragal. Pre-drill the holes with a 1/8” bit. Fasten in place with the flat head screws.



See other side for next step.

8

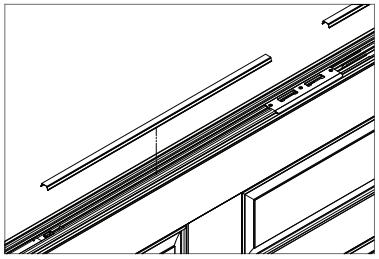
Pre-drill through remaining two holes with a 1/8” bit. One hole will be just above the strike and one will be just below. Fasten astragal to door though these holes with two pan head screws.



9

Cut and fit trim strips to fit between the strike and each astragal slide bolt assembly while in the retracted position.

Press pieces firmly to snap in place.

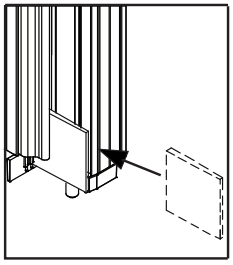


10 *AT THE SITE*

With the doors open, drill 1/8” diameter pilot holes in the open hinge holes (8 total for 6/6 and 6/8, 10 total for 7/0 and 8/0). Then install the flat head screws through the hinges, into the stud, to anchor the door frame and prevent sagging.

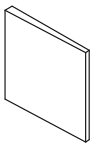
11

Remove paper backing from corner seal pad. Align the pad with the bottom of the boot and the inside edge of the astragal. Apply the pad by pressing it against the astragal.

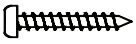


Astragal Shop/Site Pack Contents:

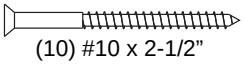
.050” Hex Key



(1) Corner Seal Pad



(8) #10 x 1-1/2”
Pan Head Screws
Astragal Mounting Screws



(10) #10 x 2-1/2”
Flat Head Screws
Long Hinge Screws

THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 46537
419-891-7400

Site Installation Instructions for Coastal Astragal 2

The following instructions should be completed at the unit installation site.

The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

THERMA-TRU® DOORS

Rev. F 9/12/16

P/N: C2ASTDBSITEINST0916-R

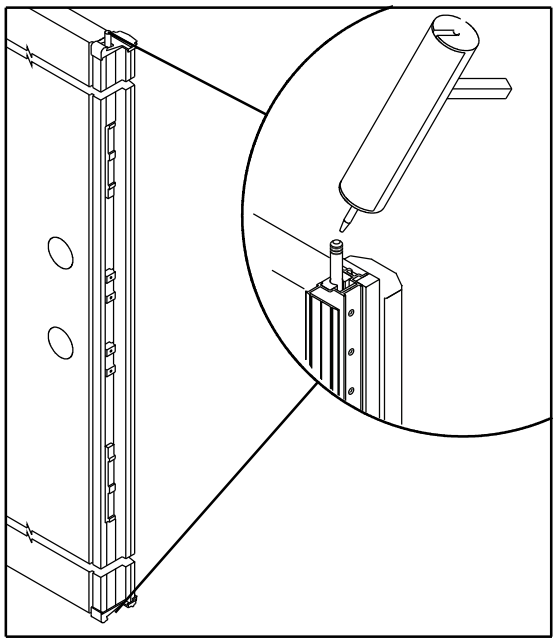
1 *APPLY SEALANT AND MARK SLIDE BOLT ENDS.*

Extend slide bolts and place sealant on each tip. Sealant will be used to mark hole locations.

Retract bolt.

With inactive door held in closed position and door flush with frame, extend slide bolts to mark head and sill.

Retract bolts.



2 INSTALL SILL BOLT KEEPER PLATE.

Open door. Place the sill keeper plate on the sill so that the marked location for the slide bolt is visible. Locate the sill keeper plate where the edge is parallel with the edge of the sill. See Figure 2.

Drill 1/8” diameter pilot hole through sill 2-1/4” deep for the slide bolt. Drill 1/2” diameter hole through sill 2-1/4” deep using pilot hole as guide. If sub-floor material is masonry, a 1/2” diameter masonry bit will be needed to complete hole.

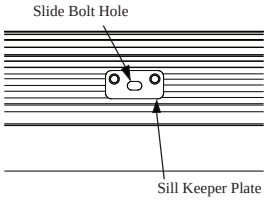


Figure 2

Apply significant amount of sealant to sill hole to seal sub-floor interface area. Apply additional sealant to undertside of lip on sill plug. See Figure 3.

Insert Deep Fill Plug into the sill. Fit should be tight, sealant will act as adhesive.

Align sill keeper plate center hole with plug. Orient keeper plate so that screw holes are toward sill approach. Pre-drill screw holes 1/8” diameter by 2-1/2” deep. Fasten the sill keeper plate with (2) #10 x 2-1/2” screws. Do not over-tighten keeper plate screws. See Figure 4.

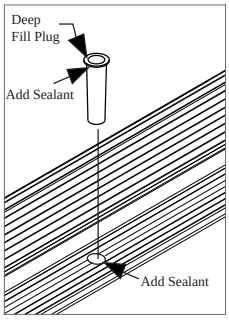


Figure 3

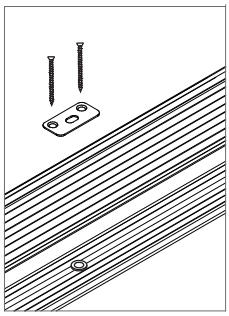


Figure 4

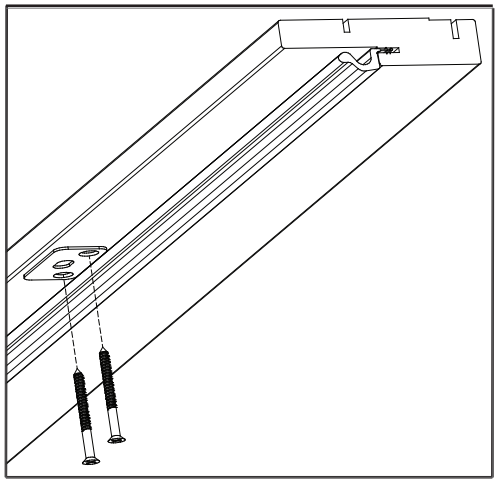
3 INSTALL HEAD BOLT KEEPER PLATE.

Open door and locate the marked location from step 1. Drill a 3/8” diameter hole 2” deep in the marked location.

Place the head keeper plate on the head jamb so that the hole location for the slide bolt is visible.

Align head keeper plate center hole with hole. Orient the keeper plate so that the screw holes are toward the weatherstrip on the head jamb. Pre-drill screw holes 1/8” diameter by 2-1/2” deep.

Fasten the head keeper plate with (2) #10 x 2-1/2” screws.



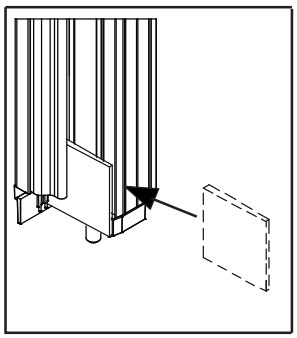
Coastal Astragal 2 Installation Instructions

THERMA-TRU DOORS

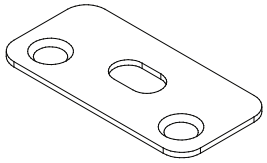
4 INSTALL ASTRAGAL CORNER PAD.

(Corner pads are only used with inswing units. Skip this step for outswing units.)

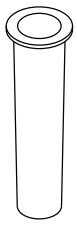
Remove paper backing from corner seal pad. Align the pad with the bottom of the boot and the inside edge of the astragal. Apply the pad by pressing it against the astragal.



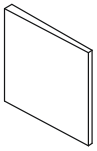
Coastal Astragal 2 Site Pack Contents



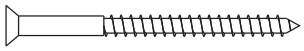
(2) Keeper Plate



Deep Fill Plug



Corner Seal Pad



(4) #10 x 2-1/2”
Flat Head Screws
Keeper Plate Screws

THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

Site Installation Instructions for Multi-Point Shootbolt Coastal Astragal 2

The following instructions should be completed at the unit installation site.

The hardware pack contains all the necessary hardware and fasteners needed to complete the installation of the astragal unit.

Read all instructions before starting.

THERMA-TRU DOORS

Rev. A 4/12/06
P/N: CA2MPLSSITE

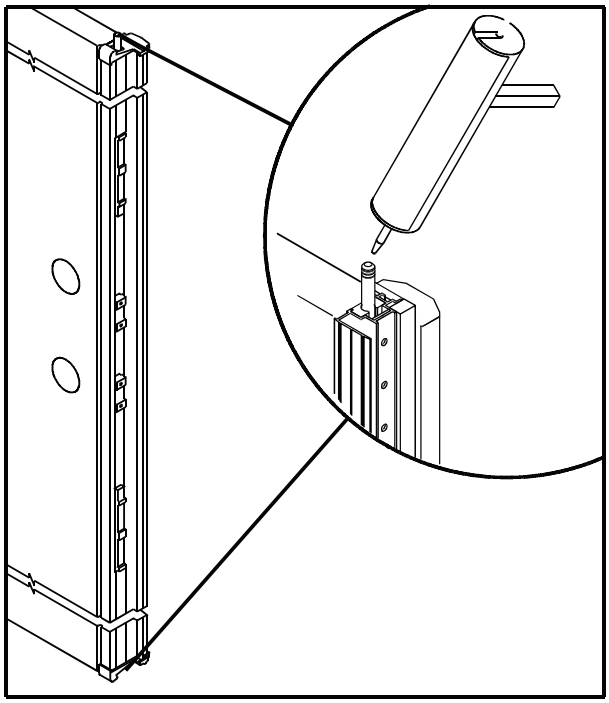
1 APPLY SEALANT AND MARK SLIDE BOLT ENDS.

Extend slide bolts and place sealant on each tip. Sealant will be used to mark hole locations.

Retract bolt.

With inactive door held in closed position, and door flush with frame, extend slide bolts to mark head and sill.

Retract bolts.



Coastal Astragal 2
Installation Instructions

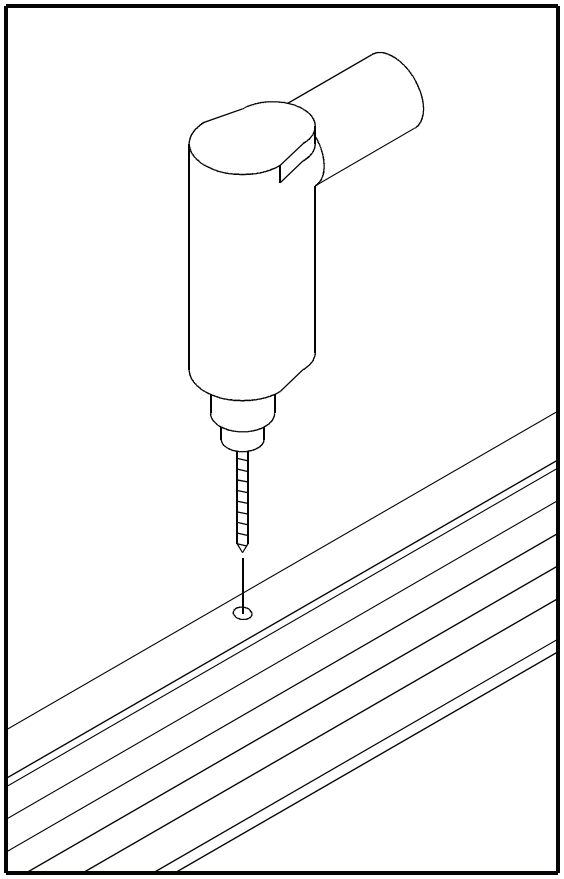
THERMA-TRU® DOORS

2 DRILL HEAD AND SILL BOLT HOLES.

Open door and drill 3/8" diameter hole at overhead in wood frame 2” deep.

Drill ½” diameter hole through threshold 2-1/4” deep. If sub-floor material is masonry, a ½”diamete masonry drill bit will be needed to complete hole.

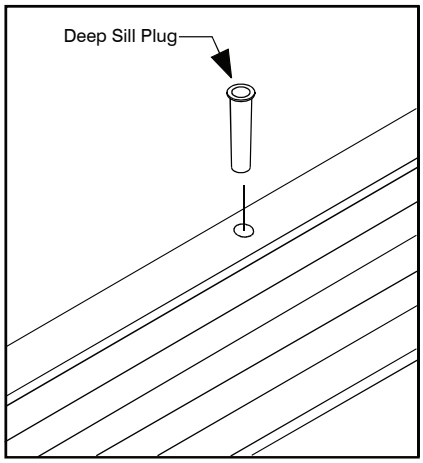
Apply significant amount of sealant to threshold hole to seal sub-floor interface area.



3 INSERT ASTRAGAL FILL PLUG INTO THRESHOLD.

Apply additional sealant to underside of lip of sill plug.

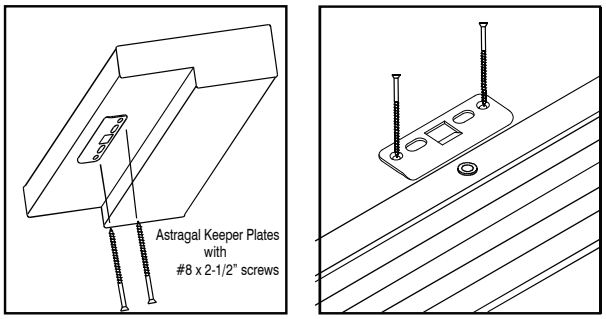
Fit should be tight, sealant will act as adhesive.



4 INSTALL KEEPER PLATES.

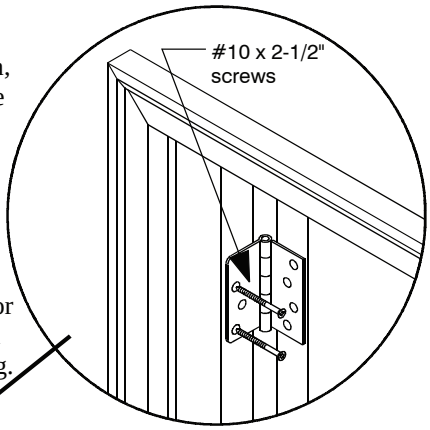
Position keeper plates as shown at overhead and sill holes.

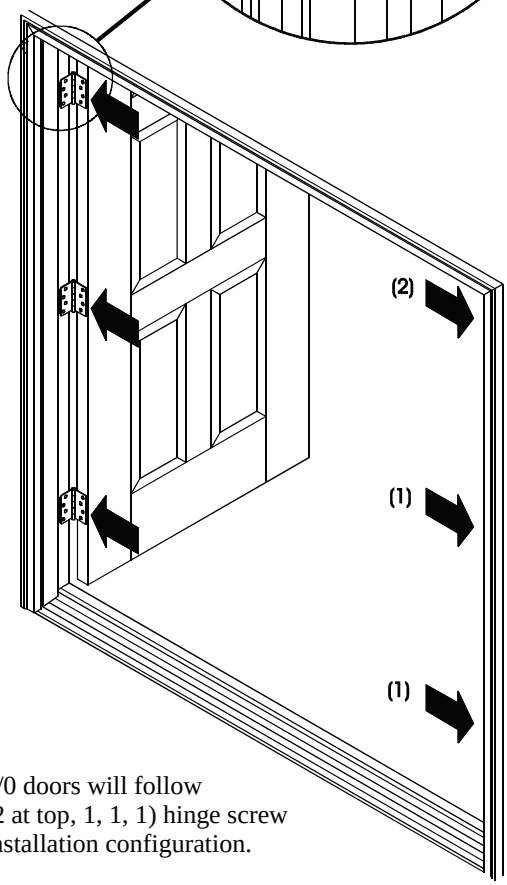
Fasten plates with (2) #8 x 2-1/2” screws.



5 INSTALL LONG HINGE SCREWS.

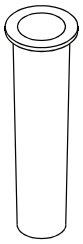
With door open, at hinges where labels indicate, drill 1/8" dia. pilot holes and drive #10 x 2-1/2" screws through hinges to anchor door frame and prevent sagging.



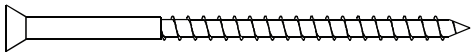


8/0 doors will follow (2 at top, 1, 1, 1) hinge screw installation configuration.

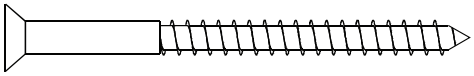
Coastal Astragal 2 Site Pack Contents



Deep Sill Plug



(4) #8 x 2-1/2"
Phillips Flat Head
Keeper Plate Screws



(10) #10 x 2-1/2"
Phillips Flat Head
Hinge Screws - Jamb Leaf

Strike Plates and Strike Plate Fasteners do not come with the astragals. They are purchased separately. Contact your Therma-Tru Customer Relations Representative for the correct strike plate package.

THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

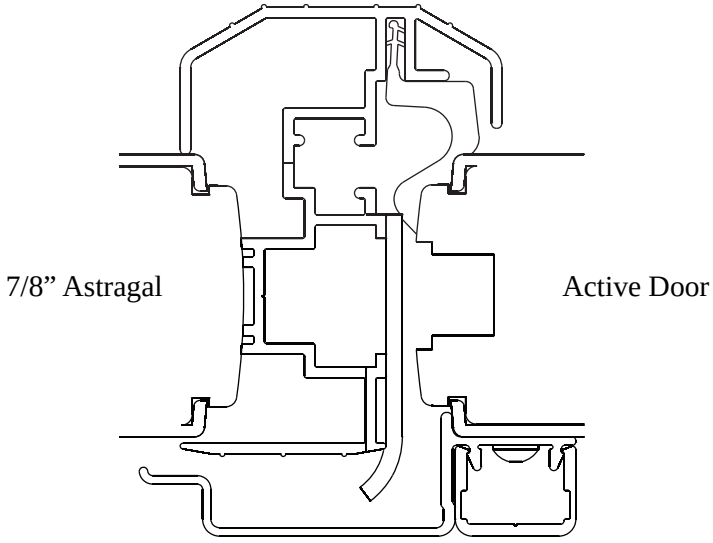
French Door System Outswing Astragal Security Cover Installation

THERMA-TRU DOORS

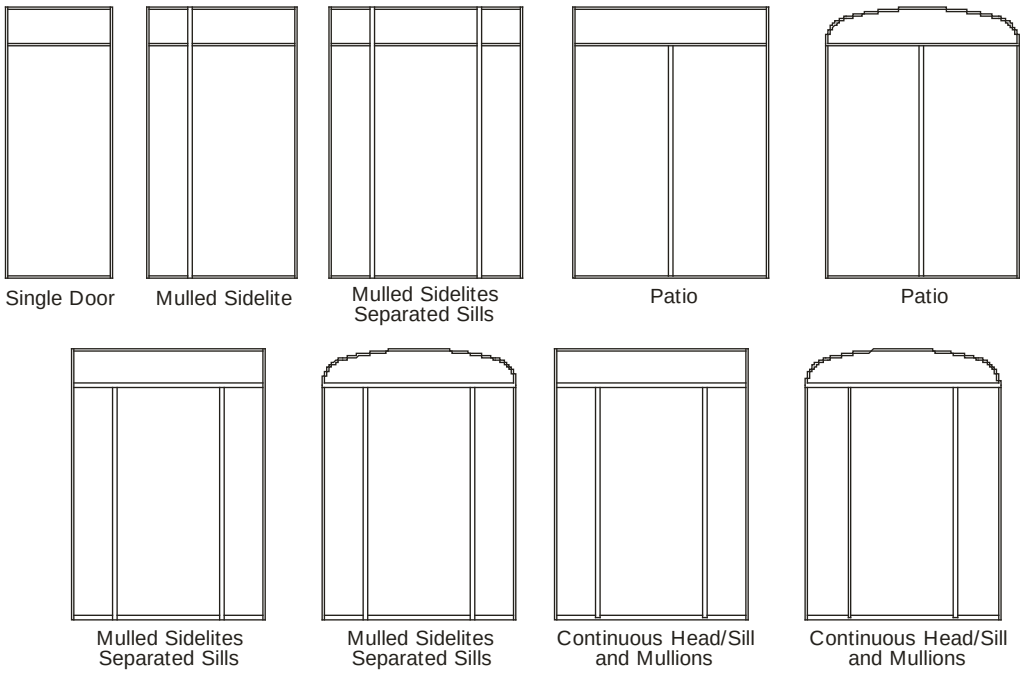
Attach Outswing Astragal Security Cover (Optional)
(Not available for Coastal Astragal applications.)

7/8” Aluminum Outswing Astragal Security Cover (Optional)

Fasten with (9) #8 x 5/8” Phillips pan head stainless steel screws.



Installation Instructions for Transom Units



Read all instructions before starting.

THERMA-TRU DOORS

Transom Installation Instructions

THERMA-TRU DOORS

1 ASSEMBLE JAMB EXTENDERS IF USING 6-5/8" JAMBS.

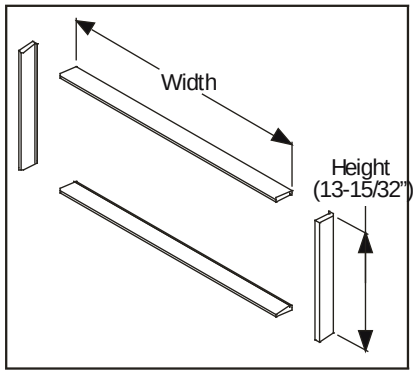
Measure transom frame width and height.

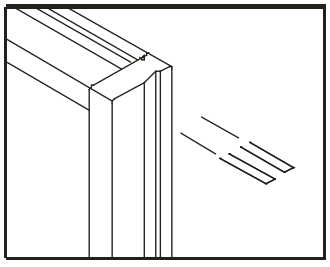
The following are recommended height and width dimensions. Use actual measurements to construct jamb extender frame.

Height: 13-15/32"

Door/Sidelite Slab	Width
14" Sidelite	14"
12" Sidelite	12"
3/0	36-5/32"
5/0 Patio	64-5/16"
5/4 Patio	68-5/16"
5/8 Patio	72-5/16"
6/0 Patio	76-5/16"
3/0 w/12" S/L, Mulled	62-5/32"
3/0 w/12" S/L, Boxed.	63-5/32"
3/0 w/14" S/L, Mulled	66-5/32"
3/0 w/14" S/L, Boxed	67-5/32"

Cut extender components to match transom dimensions.



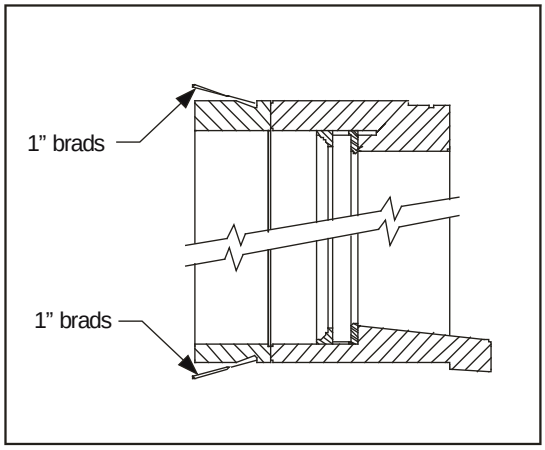


Butt corners together and fasten with 2 staples or nails.

2 APPLY JAMB EXTENDERS IF APPLICABLE.

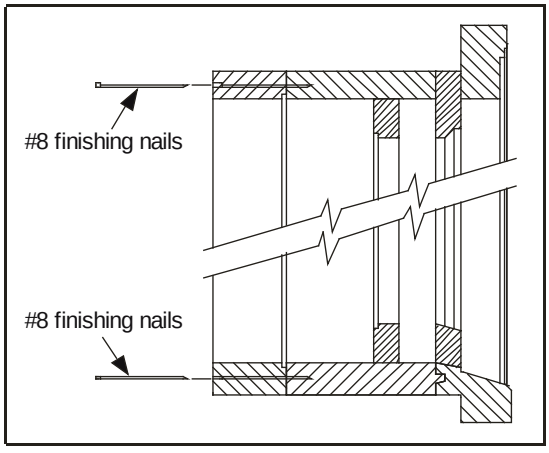
Align extender with transom. Orient so V-groove for fastening is closer to transom frame.

Fasten entire perimeter, as shown, through V-groove. Use 1" brads on 6" centers.



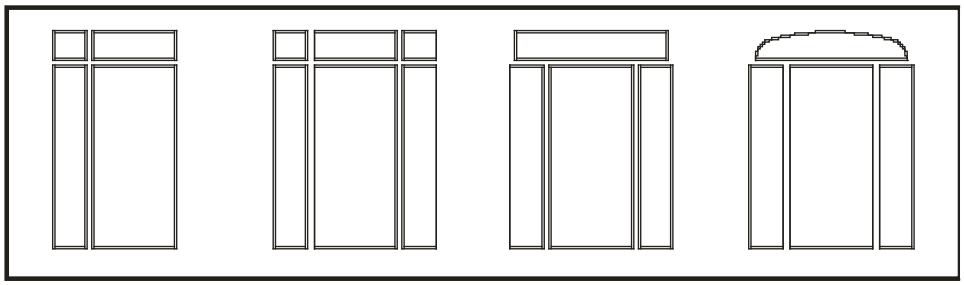
Align extension jamb with transom jamb so inside surface of extension jamb is flush with inside surface of transom jamb, and relief notch is against transom jamb.

Nail and countersink extension jamb to transom jamb with #8 finishing nails in pre-drilled holes.



3 *WIDTH-MATCH MULLED UNITS.*

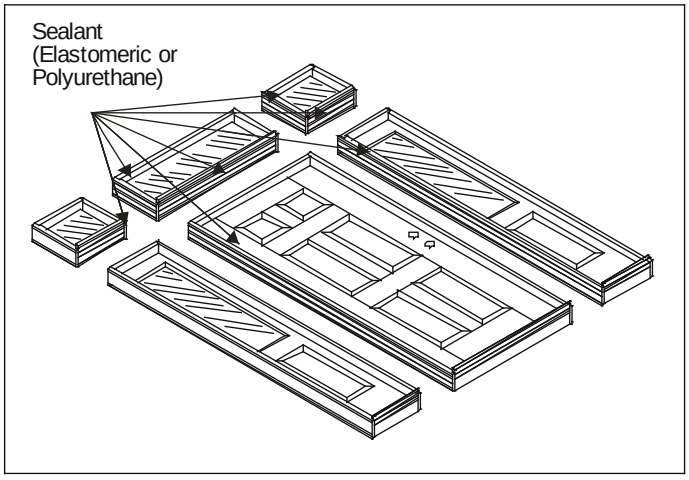
When jamb-stitched ("mulled") and then stacked with transoms, units require special attention. Width and thickness tolerances can work against the assembler. Width checking is required and shimming may be necessary.

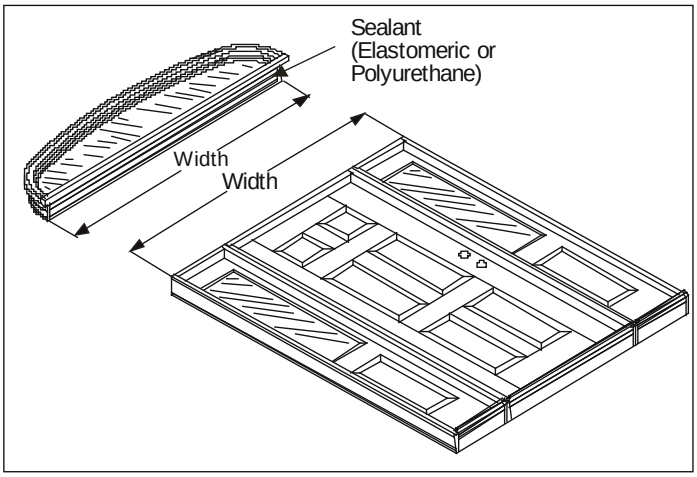


Place Units Together To Check Fit

Apply a 1/4” bead of sealant (Elastomeric or Polyurethane) entire length between units as shown.

Lay door, sidelite and transom units on a flat surface with exterior sides facing up.

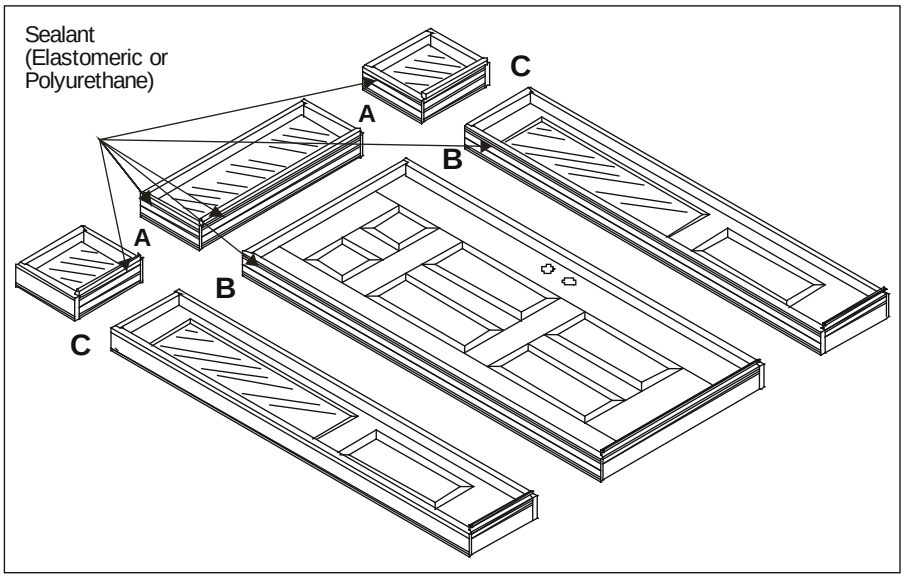




Measure widths and compare.

Transom Installation Instructions

3 WIDTH-MATCH MULLED UNITS. (CONT.)

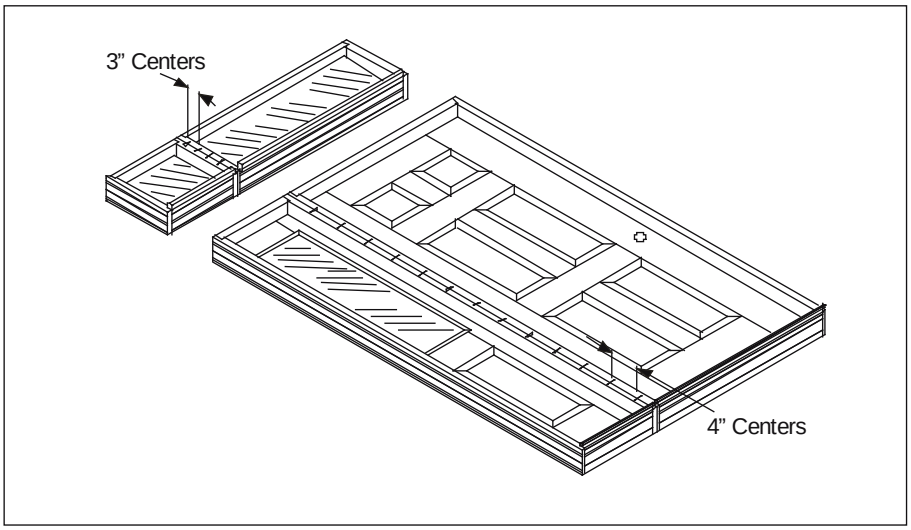


Shim or Remove Material Where Required To Match Widths

Shim between jambs at A or B so widths match at C.

If material needs to be removed, use a power planer or belt sander on back side of jamb where required.

Apply a 1/4” bead of sealant (Elastomeric or Polyurethane) entire length between units as shown.



Stitch-Fasten Jambs

Draw jambs together and stitch fasten at interior side across joint with 1” corrugated fasteners.

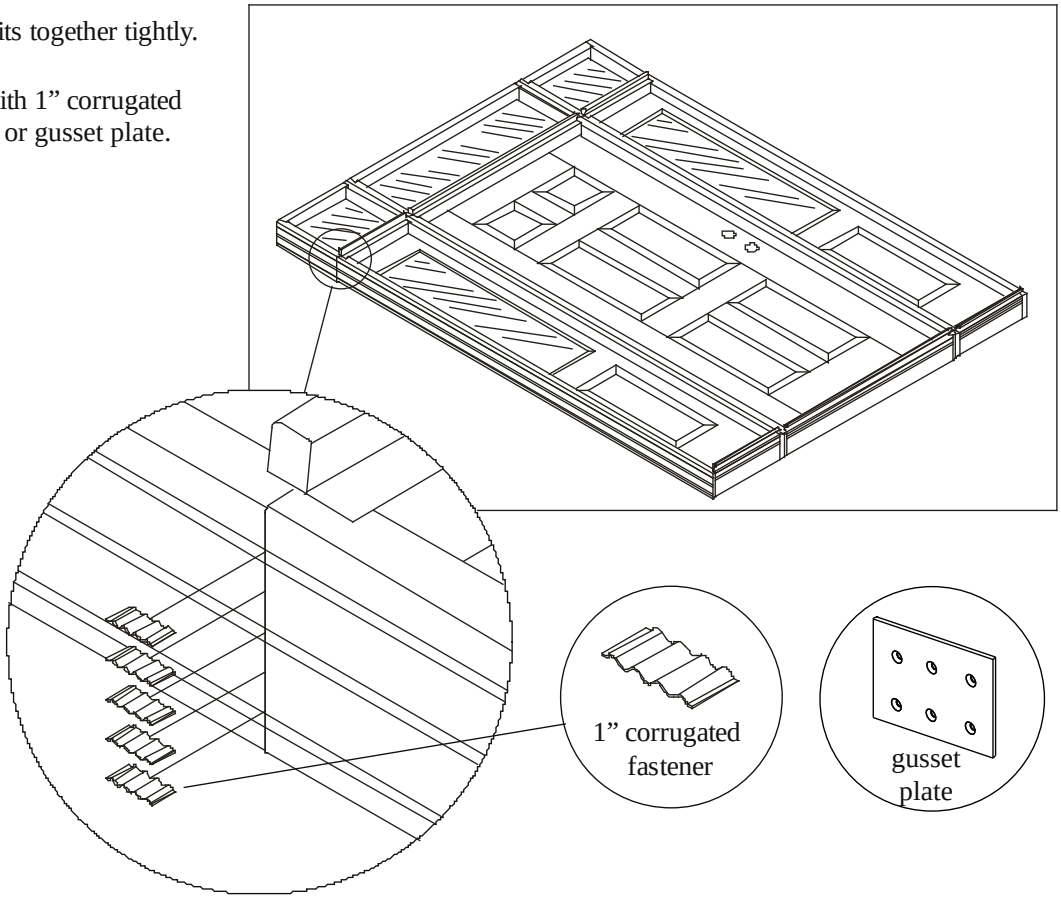
Fasten door unit at 4” centers.

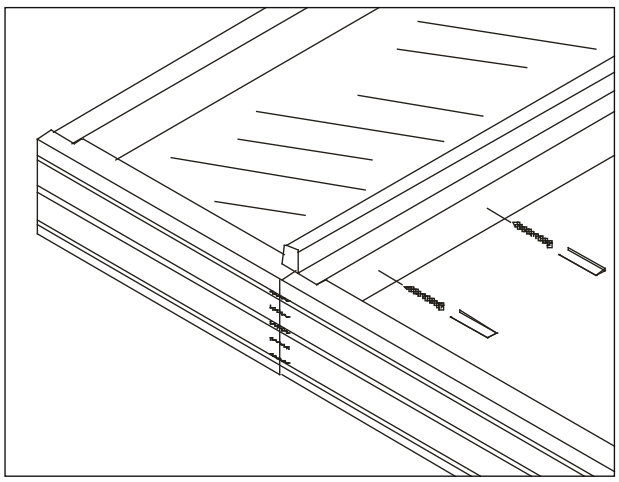
Fasten transom unit at 3” centers.

4 *ATTACH TRANSOM TO DOOR UNIT.*

Draw units together tightly.

Fasten with 1” corrugated fasteners or gusset plate.





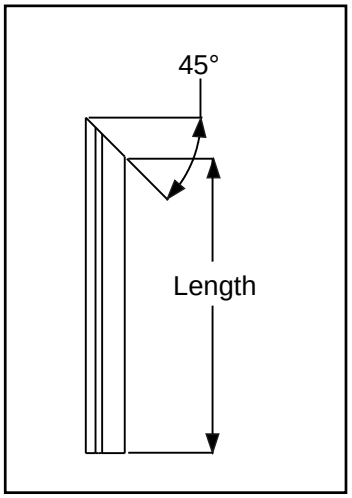
Draw head to transom sill and clamp if required.

Using 2” screws or staples spaced on 6” centers, fasten through door/sidelite frame heads into transom sill.

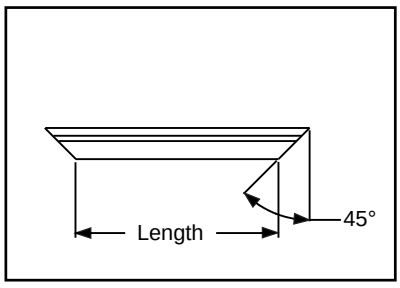
5 *CUT BRICKMOULD TO SIZE. (RECTANGULAR TRANSOM)*

CAUTION:
The following four steps apply only to units with rectangular transoms. For units with elliptical transoms proceed to step 9.

	Door Height	Length			
		Inswing	Outswing		ADA
			Aluminum	Composite	
BOOK	6/6	92 3/16"	91"	91 9/16"	91 3/16"
	6/8	94 3/4"	93 9/16"	94 1/8"	93 3/4"
	7/0	98 3/4"	97 9/16"	98 1/8"	97 3/4"
	8/0	110 3/4"	109 9/16"	110 1/8"	109 3/4"
HYBRID	6/6	92"	91"	91 9/16"	91 3/16"
	6/8	94 9/16"	93 9/16"	94 1/8"	93 3/4"
	7/0	98 9/16"	97 9/16"	98 1/8"	97 3/4"
	8/0	110 9/16"	109 9/16"	110 1/8"	109 3/4"
U1REV	6/6	92"	91"	91 9/16"	91 3/16"
	6/8	94 3/8"	93 3/8"	93 15/16"	93 1/2"
	7/0	98 3/8"	97 3/8"	97 15/16"	97 1/2"
	8/0	110 3/8"	109 3/8"	109 15/16"	109 1/2"



JAMB BRICKMOULD



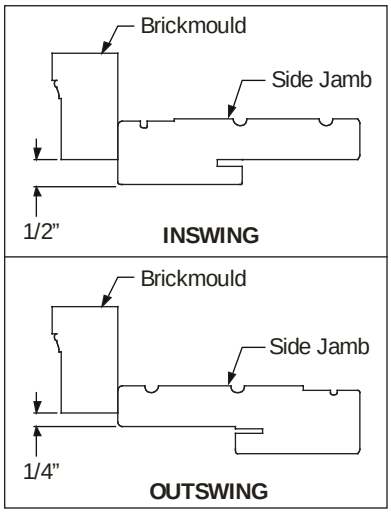
HEAD BRICKMOULD

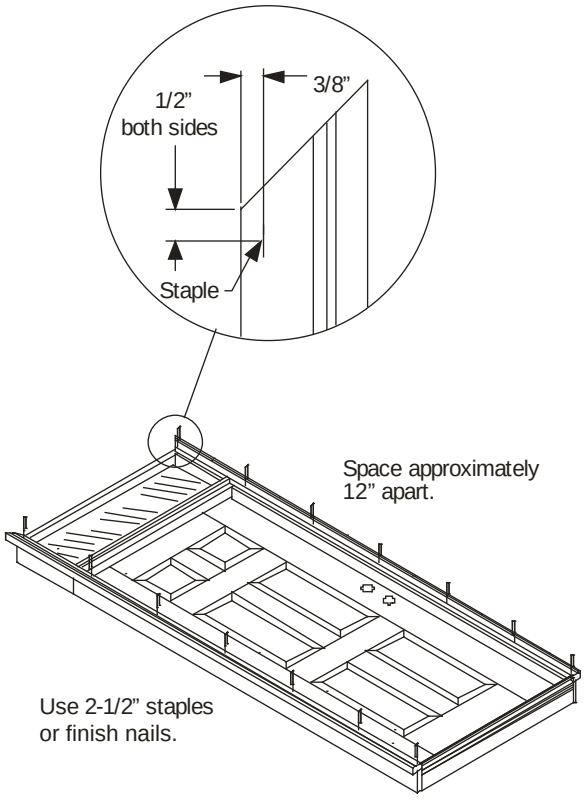
	Unit Size	Head Length	
		Inswing	Outswing
Single Units	3/0	34 5/32"	34 21/32"
Continuous Sill Units	3/0 - (2) 12"	62 5/32"	n/a
	3/0 - (2) 14"	66 5/32"	n/a
Mulled Units	3/0 - (2) 12"	59 5/32"	59 21/32"
	3/0 - (2) 14"	67 5/32"	67 21/32"
Patio Units	5/0	61 5/16"	61 13/16"
	5/4	65 5/16"	65 13/16"
	5/8	69 5/16"	69 13/16"
	6/0	73 5/16"	73 13/16"

6 FASTEN BRICKMOULD TO SIDE JAMBS.

Locate and attach brickmould jamb pieces.

Fasten brickmould with 2-1/2" staples or finish nails starting 1/2" in from end and spaced approximately 12" apart.



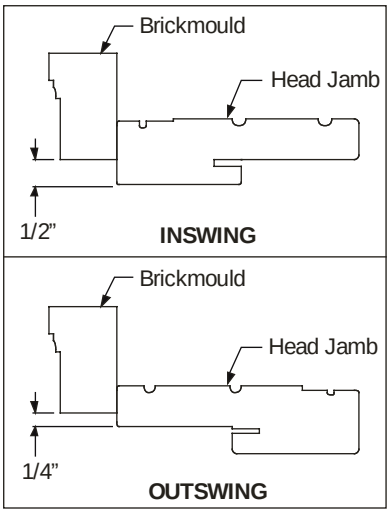


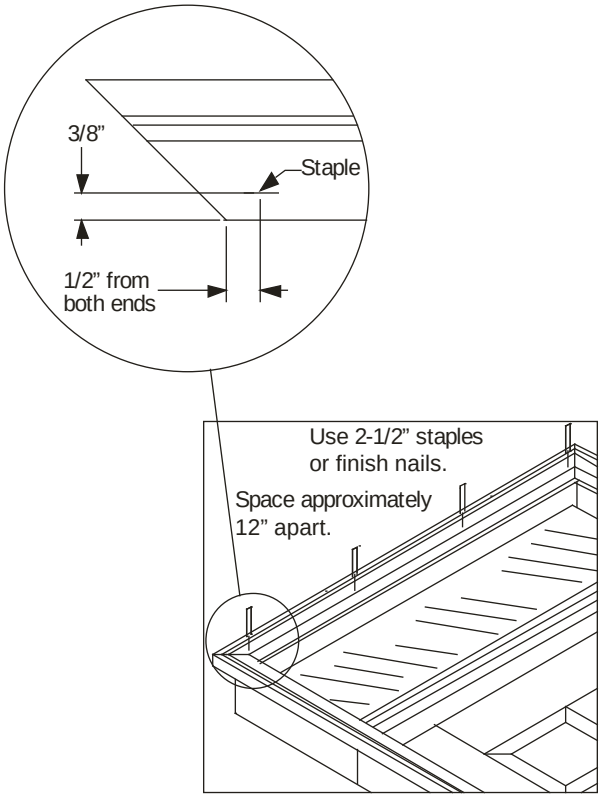
7 FASTEN BRICKMOULD TO FRAME HEAD.

Align brickmould head at corner miters.

Fasten near ends to jambs with 2-1/2" staples or finish nails.

Hold proper 1/2" or 1/4" reveal and staple to jamb across length at approximately 12" spacing.



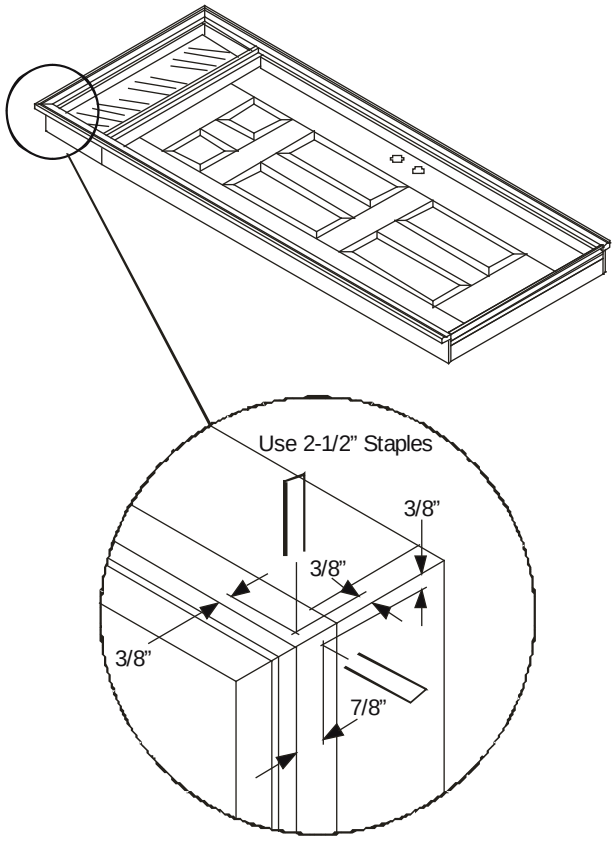


Transom Installation Instructions

8 SECURE CORNERS AND CAULK REMAINING GAPS.

Secure each corner with (2) 2-1/2” staples, one applied through head piece and one applied through jamb length.

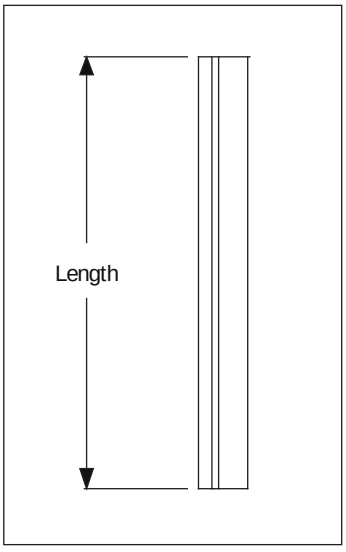
Caulk remaining gaps and remove excess.



9 CUT BRICKMOULD TO SIZE. (ELLIPTICAL TRANSOMS)

CAUTION:
The following two steps apply only to units with elliptical transoms.

	Door Height	Length			
		Inswing	Outswing		ADA
			Aluminum	Composite	
BOOK	6/6	78 11/16"	77 5/16"	77 7/8"	77 11/16"
	6/8	81 1/4"	79 7/8"	80 7/16"	80 1/4"
	7/0	85 1/4"	83 7/8"	84 7/16"	84 1/4"
	8/0	97 1/4"	95 7/8"	96 7/16"	96 1/4"
HYBRID	6/6	78 1/2"	77 5/16"	77 7/8"	77 11/16"
	6/8	81 1/16"	79 7/8"	80 7/16"	80 1/4"
	7/0	85 1/16"	83 7/8"	84 7/16"	84 1/4"
	8/0	97 1/16"	95 7/8"	96 7/16"	96 1/4"
U1REV	6/6	78 1/2"	77 5/16"	77 7/8"	77 11/16"
	6/8	80 7/8"	79 5/8"	80 3/16"	80 1/16"
	7/0	84 7/8"	83 5/8"	84 3/16"	84 1/16"
	8/0	96 7/8"	95 5/8"	96 3/16"	96 1/16"



JAMB BRICKMOULD

1750 Indian Wood Circle Maumee, Ohio 43537 419-891-7400

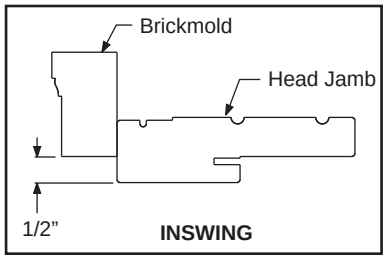
Part # TTTINST65

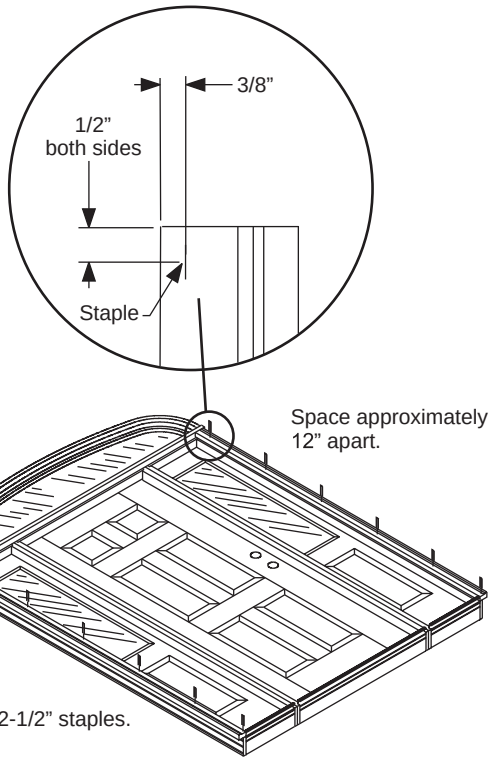
10 FASTEN BRICKMOLD TO SIDE JAMBS.

Locate and attach brickmold jamb pieces.

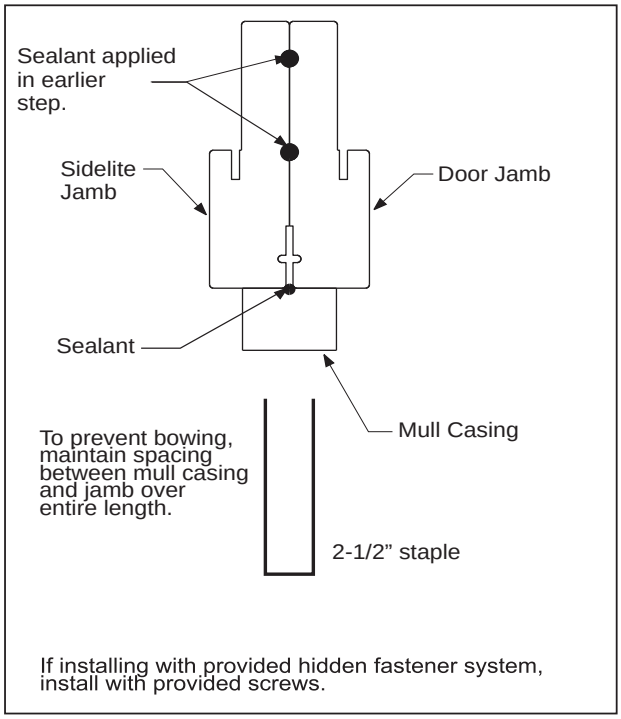
Fasten brickmold with 2-1/2” staples starting 1/2” in from end and spaced approximately 12” apart.

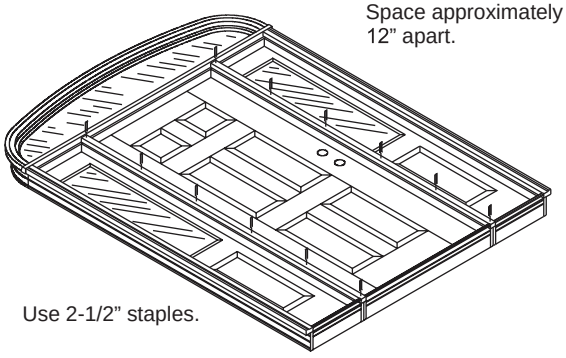
If installing with provided hidden fastener system, install with provided screws.





11 CUT MULL CASING TO PROPER LENGTH AND APPLY.





Transom Installation Instructions

THERMA-TRU DOORS

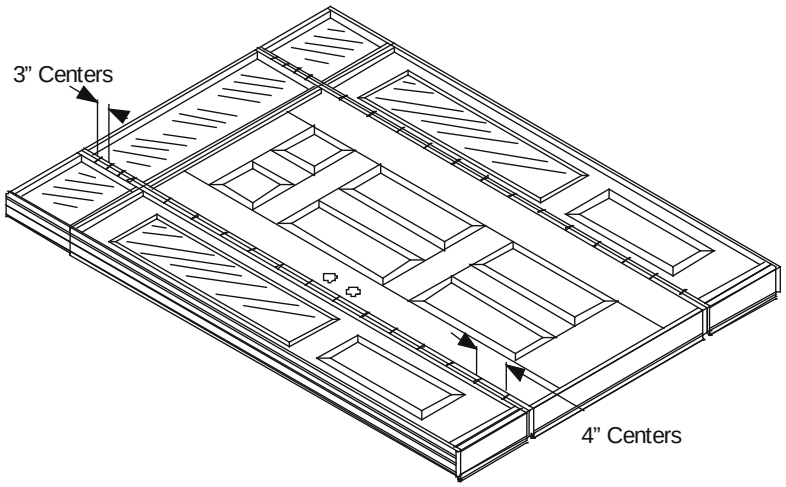
12 *FINAL TRANSOM ATTACHMENT TO DOOR.*

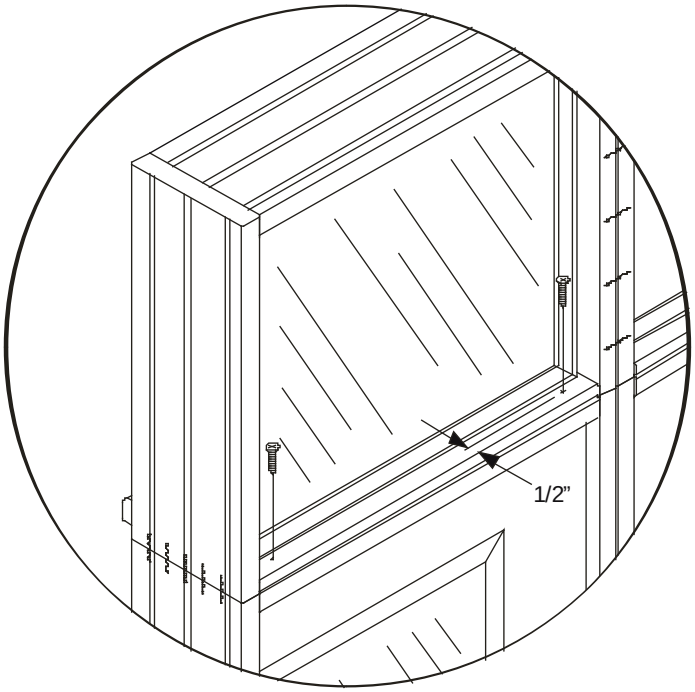
Turn entire unit over.

Stitch-fasten at exterior side across joint with 1" corrugated fasteners.

Fasten door unit at 4" centers.

Fasten transom unit at 3" centers.





Draw head/sill joint together and clamp if required.

Screw or staple down through transom sill into door/sidelite frame heads.

Fasten along a line approximately 1/2" in from edge as shown.

Space on 6" centers.

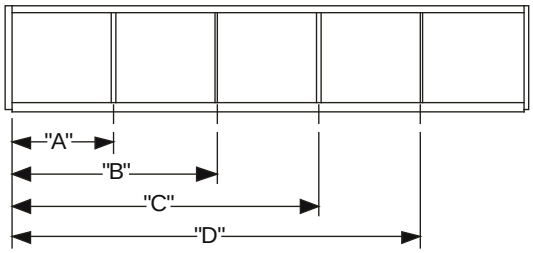
Rectangular transoms require 1" fasteners. Elliptical transoms require 1-1/2" fasteners.

13 *INSTALL TRANSOM GRILLE (OPTIONAL)*

Use table below for location of grille bars.

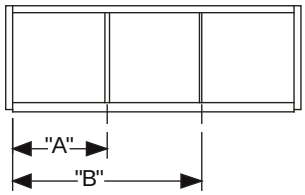
Measure from inside edge of transom jamb and place a mark on the sill approximately 3/4" from inside edge of sill.

Mark transom head in same manner.



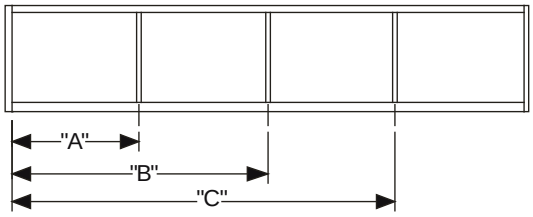
Rectangular Transom - 5W

Unit Width	A	B	C	D
5/0	12-5/16"	24-9/16"	36-3/4"	49"
5/4	13-1/8"	26-1/8"	39-3/16"	52-3/16"
5/8	13-7/8"	27-3/4"	41-9/16"	55-3/8"
6/0	14-3/4"	29-3/8"	44"	58-5/8"



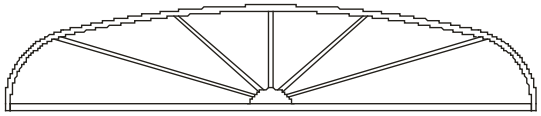
Rectangular Transom - 3W

Unit Width	A	B
3/0	12-1/16"	24-1/16"



Rectangular Transom - 4W

Unit Width	A	B	C
5/0	15-3/8"	30-5/8"	45-15/16"
5/4	16-3/8"	32-5/8"	48-15/16"
5/8	17-3/8"	34-5/8"	51-15/16"
6/0	18-3/8"	36-5/8"	54-15/16"



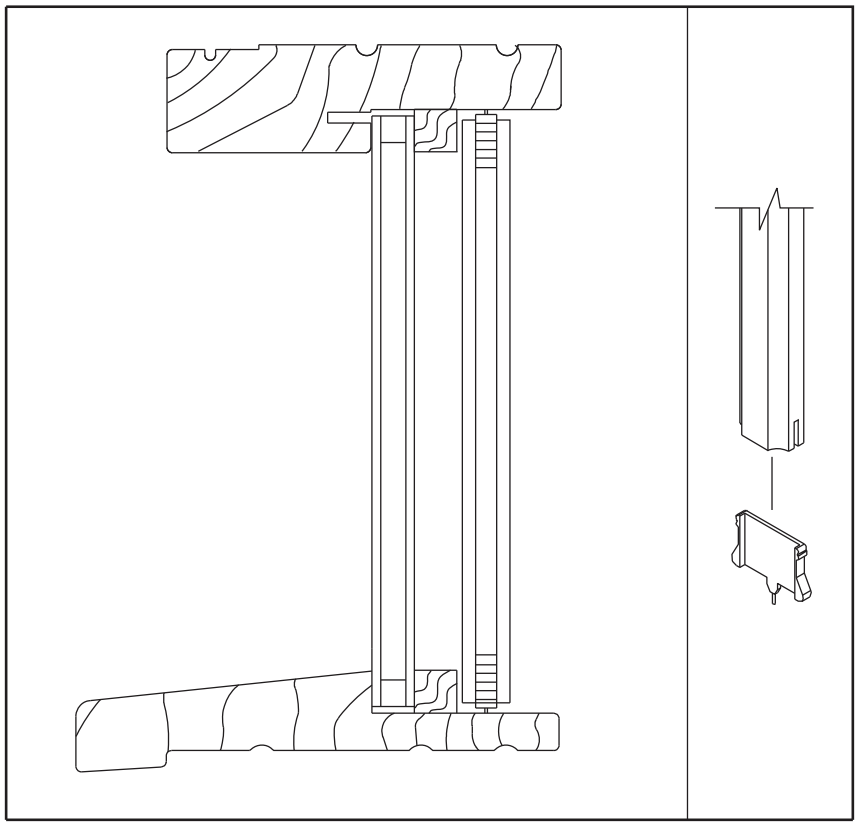
Removable/replaceable grille is standard in elliptical (clear) transoms and is factory installed.

14 *INSTALL GRILLE BARS ON RECTANGULAR TRANSOMS.*

Plastic Slide and Nail Installation

Locate each grille to align nail of each plastic slide with mark.

Using the plastic slides, press attached nail at each end of grille firmly into sill and transom head.



For California Residents only

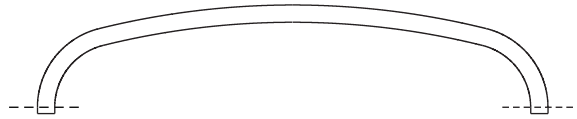
⚠ WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

THERMA-TRU

Elliptical Transom Casing Installation Instructions

The curvature and fit of the casing may not appear to match the transom frame shape, if the two are compared before installation. Do not be concerned. The casing will flex and is fit to the frame at installation time.

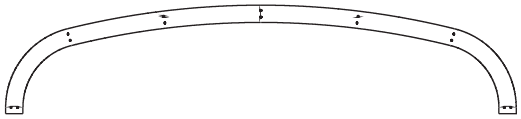
Complete installation of this elliptical casing before doing the straight vertical sides.



Casing is furnished with a small amount of extra length at each end. This will need to be trimmed at installation time.

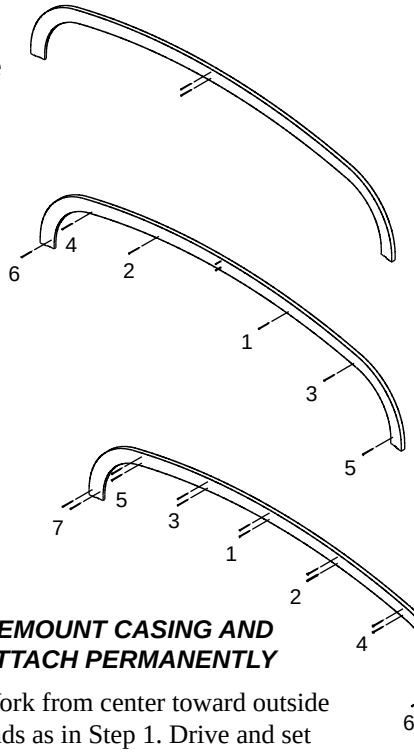
1. TEMPORARILY ATTACH CASING

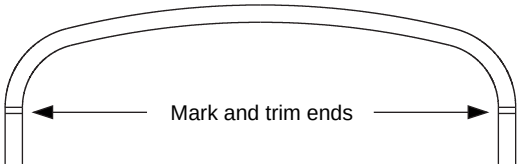
Before installing, mark casing for finish nail locations. Mark for outer and inner nails.



With transom installed in wall, place casing against transom frame. Position casing at center for desired reveal from frame edge. Tack in place at the top two center finish nail locations only. Do not drive nails fully. They will be pulled back out in Step 2.

Work from center out. Adjust casing so reveal margin is the same at each nailing point. Tack at each inner nail location.





2. MARK AND TRIM ENDS

Attach ends of transom casing. Use square cut pieces of straight jamb casing and mark ends of elliptical casing for trim cuts.

Pull nails carefully. Remove casing from wall and trim ends.

3. REMOUNT CASING AND ATTACH PERMANENTLY

Work from center toward outside ends as in Step 1. Drive and set all nails.

1750 Indian Wood Circle Maumee, Ohio 43537 419-891-7400

THERMA-TRU DOORS

Site Installation Instructions for Adjusta-Fit® 2

Read ***all*** instructions carefully before installing your new Therma-Tru Adjusta-Fit® 2 system.

Please note there are separate “Prehanging Instructions” to be reviewed and followed prior to completing the installation.

CODES
Building codes may vary from area to area. If a fire rating is required of the door and opening being framed, the installer must use installation materials and methods to satisfy the authority having jurisdiction. Therma-Tru provides labeled products, but bears no responsibility for installation.

Therma-Tru Positive Pressure (NFPA-252/UL-10C/CAN4-S104) Labeled Systems

This Therma-Tru door system has been labeled in compliance with NFPA-252/UL-10C/CAN4-S104 Positive Pressure Smoke and Draft control rating and requires a listed Category “H” gasket and the application of an additional Category “G” edge sealing system. To maintain the validity of this certification, the door installer must follow these instructions. They should be kept on file on the building premises for verification by the authority having jurisdiction.

- Verify that the frame is compatible with the door and properly installed.
- Install hardware per the hardware manufacturer's instructions.
- For Positive Pressure Rating, a listed and labeled category “G” edge seal shall be installed into the opening.
- For smoke rating, a listed and labeled category “H” Smoke and Draft control gasket (included) shall be installed into the opening.
- Installation must comply with requirements of NFPA 80 “Standard for Fire Doors and Fire Windows”.
- Surface mounted hardware must be attached with through bolts unless interior

THERMA-TRU DOORS

1750 Indian Wood Circle Maumee, Ohio 43537
1-800-THERMA-TRU (843-7628)
www.thermatru.com

 3/2009 Part # MSLCMFIST

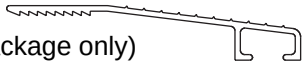
Adjusta-Fit® 2
Parts List and Description

JOB SITE COMPONENTS

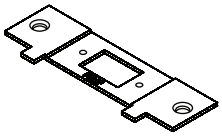
TRIM (3 Pieces)

Hinge, Lock and Head Trim

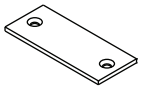
SILL EXTENDER
(included in inswing package only)



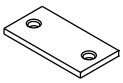
FULL LIP STRIKE CONVERTER PLATE



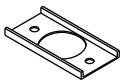
DEADBOLT LOCK PLATE



DEADBOLT COVER PLATE (door)

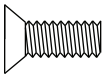


(2) DEADBOLT FILLER (door)

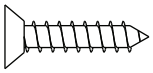


HARDWARE

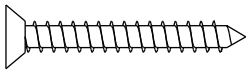
(2) #8-32 x 3/8" Phillips Undercut Flat Head Type F Self-tapping Machine Screw



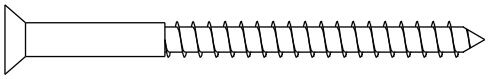
(2) #12-24 x 1/2" Phillips Undercut Flat Head Type A Machine Screw



(2) #8 x 3/4" Phillips Flat Head Wood Screw

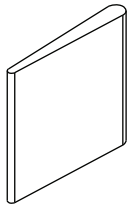


(2) #8 x 1 1/4" Phillips Flat Head Wood Screw



(6) #10 x 2 1/2" Phillips Flat Head Wood Screw

(2) CORNER SEAL PAD



INSTALLATION INSTRUCTIONS

TOOLS REQUIRED

- Drill with #2 Phillips Driver Bit
- Shims
- Caulk Gun and Exterior Grade Sealant
- Utility knife or Scissors

PURCHASED SEPARATELY

- Category "G" Edge Seal
- Face attachment screws
- #8 x 1 1/4" flat head masonry screws for masonry installations

PAINTING FRAME AND DOOR

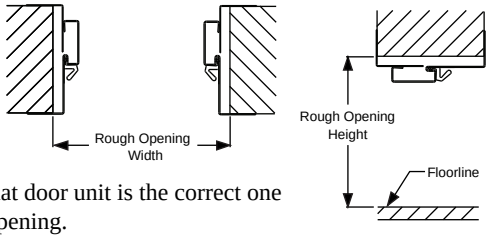
- DOOR PREP: Brush or sponge off dirt. Wipe dry.
- FRAME PREP: Wet-clean with mild abrasive cleaner. Rinse completely and wipe dry.
- Paint the door in an open position.
- Use a high quality exterior house paint to finish the frame and door when the temperature is above 50°F and humidity is below 90%.
- DO NOT paint weatherstrip. (It can be temporarily removed for painting.)
- DO NOT close door until the paint is completely dry.

For information on where to purchase Therma-Tru entry door systems, call 1-800-THERMA-TRU (843-7628) or visit www.thermatru.com

Adjusta-Fit 2 Prehanging Instructions

THERMA-TRU® DOORS

1 CHECK ROUGH OPENING SIZE.



Check that door unit is the correct one for the opening.

Check rough opening width and height for the appropriate sill type. See table below.

If additional carpet clearance is required, the necessary full shim under the sill will change the rough opening height accordingly.

Rough Opening Width		
Door	**Standard**	**Undersize**
2/0	25 1/16”	25”
2/4	29 1/16”	29”
2/6	31 1/16”	31”
2/8	33 1/16”	33”
2/10	35 1/16”	35”
3/0	37 1/16”	37”
3/6	43 1/16”	43”

	Rough Opening Height			
	Standard		Undersize	
Sill Type	**6/8**	**7/0**	**6/8**	**7/0**
Inswing	81 5/8”	85 5/8”	81 1/4”	85 1/4”
Public Access	81”	85”	80 5/8”	84 5/8”
No Sill	80 1/2”	84 1/2”	80 1/8”	84 1/8”

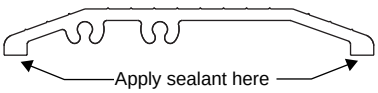
2 CHECK ROUGH OPENING FOR ACCURACY.

WARNING: It is critical for proper fit and operation that the rough opening is correct

Is subfloor level?
Are walls plumb with jambs?
Are studs or door bucks plumb?

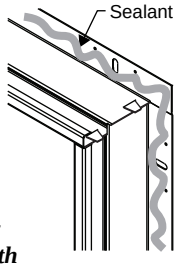
3 UNITS WITH PUBLIC ACCESS SILLS, SEAL BOTTOM OF SILL

For public access sills, apply sealant along entire length of sill as shown.



4 CENTER UNIT IN OPENING AND FASTEN FLANGES TO WALL.

Place unit on correct side of opening. Do not remove “L” bracket until door is in place, plumb and shimmed. Center unit in rough opening and set flanges flush and plumb against wall. Nail or screw flanges to wall through punched holes at perimeter.

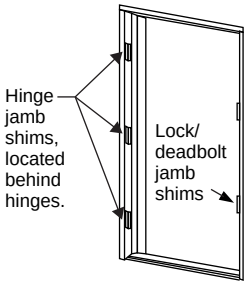


For jambs exposed to weather: apply sealant entire perimeter on underneath side of nailing flange.

5 LOCATE AND SECURE SHIMS BETWEEN WALL AND FRAME.

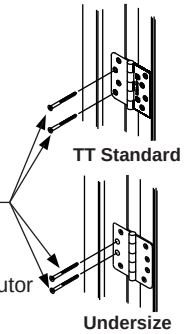
Keeping door closed, carefully shim between wall and frame. Shim hinge jamb behind hinges and the lock jamb as indicated in the figure below to plumb and level the door. Remove “L” bracket from door.

DO NOT allow shim force to twist frame. Insufficient shimming could cause jamb to bow at lock area allowing door to come open during a fire.



6 DRIVE SECURITY SCREWS INTO HINGE LEAVES.

With door open, at hinges where indicated, drill 7/64” diameter pilot holes and fasten #10 x 2 1/2” screws (provided) through holes in each hinge leaf.



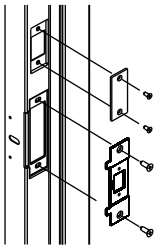
(Contact your local Therma-Tru distributor for alternate screw finishes.)

7 FASTEN LOCK JAMB TO WALL

Close the door and finish securing the face of the frame in the remaining holes.

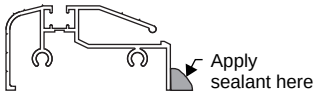
8 FASTEN LOCK PLATES TO LOCK JAMB

Fasten converter plate with (2) #12-24 x 3/4" Phillips flat head machine screws and deadbolt plate with (2) #8-32 x 3/8" Phillips flat head Type F self-tapping machine screws provided.



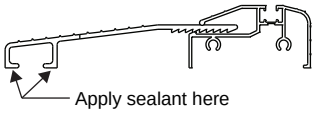
9 SEAL ALONG FRONT OF SILL BASE.

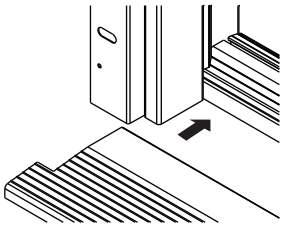
Prior to installing extender, apply a bead of sealant along front leg of riser.



10 INSERT EXTENDER INTO RISER.

Seal feet of extender before sliding into base. Slide extender into sill base until it comes in contact with jamb stop.



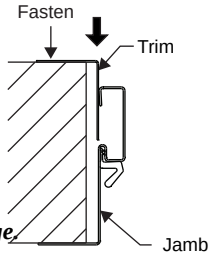


11 SLIDE TRIM ONTO JAMBS.

NOTE: If insulation is required between the frame and rough opening, insulate before sliding trim onto jamb.

Slide hinge and lock trim on first. Be sure that trim ends are resting on the sill or floor. Next apply head trim. Fasten to wall with nails or screws at hole locations.

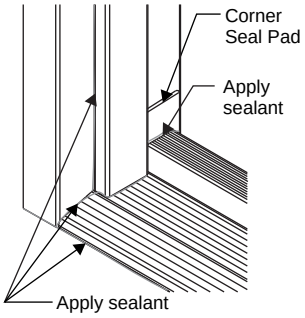
For trim exposed to weather: caulk entire perimeter on underneath side of nailing flange. (refer to step 4 for illustration)



12 SEAL UNITS EXPOSED TO WEATHER.

Apply a bead of sealant at jamb/sill, trim/sill, jamb/trim and sill/floor joints.

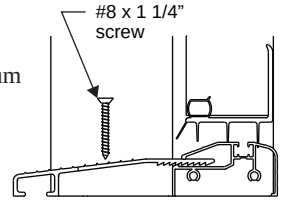
Remove paper backing from self-adhesive corner seal pads and apply to jambs with the wide side pointing towards the weather-strip and bottom edge resting on the sill.



13 ANCHOR SILL TO FLOOR

Using #8 x 1 1/4" screws, provided, for wood frame installation, fasten aluminum extender to floor thru pre-fabricated holes.

When installing into masonry openings, use #8 flat head masonry screws following screw manufacturer's instructions.



14 PAINT

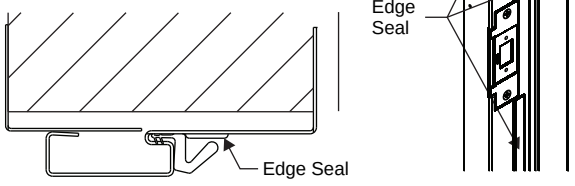
See "PAINTING FRAME AND DOOR" on other side.

15 APPLY CATEGORY "G" EDGE SEAL

(For Positive Pressure Rated System)

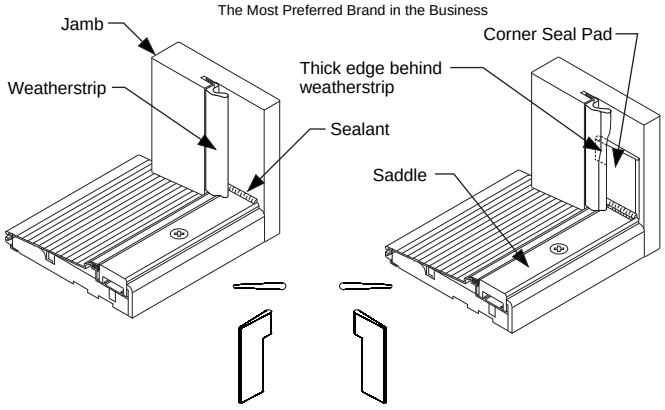
Cut head edge seal to fit between side jambs. Apply to head jamb locating it under and against weatherstrip. Measure and cut side edge seal to fit between head and sill. Cut to fit between hinges and strikes. Locate and apply to jambs as shown.

(Weatherstrip removed from illustration for clarity.)



Fiber-Classic/Smooth-Star
Corner Seal Pad Instructions

THERMA-TRU®
The Most Preferred Brand in the Business



1. When saddle is adjustable, adjust saddle to desired height to ensure proper seal and door function.

2. Place a 1/4” bead of sealant at corners where saddle meets side jambs.

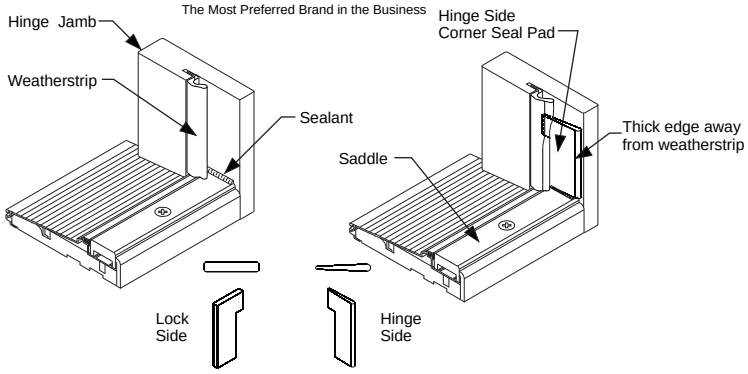
3. Remove paper backing from corner seal pad and position pad tight to the saddle and centered on the saddle. Tuck top of pad to the back of weatherstrip.

Note: If further adjustment is required, the following steps must be repeated on both jamb sides to prevent air, light and water infiltration.

PART #: TDSILLINST REV. A

Classic-Classic
Corner Seal Pad Instructions

THERMA-TRU®
The Most Preferred Brand in the Business



1. When saddle is adjustable, adjust saddle to desired height to ensure proper seal and door function.

2. Place a 1/4” bead of sealant at corners where saddle meets side jambs.

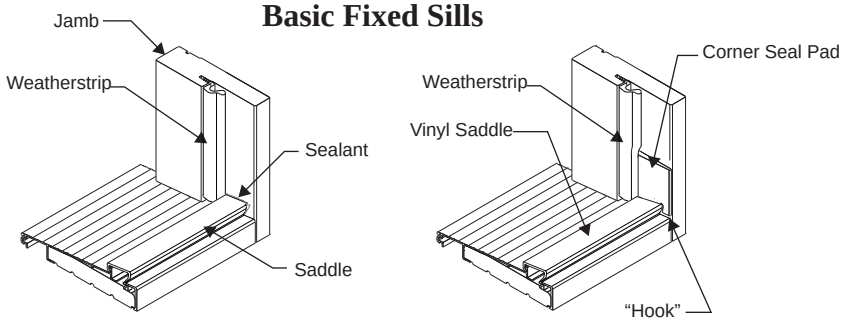
3. Remove paper backing from corner seal pad and position pad tight to the saddle and centered on the saddle. Tuck top of pad to the back of weatherstrip.

Note: Use correct corner pad for either lock or hinge side as shown above. If further adjustment of the saddle is required, the following steps must be repeated on both jamb sides to prevent air, light and water infiltration.

PART #: TDSILLINST REV. A

THERMA TRU
The Most Preferred Brand in the Business

Corner Seal Pad Instructions
Basic Fixed Sills



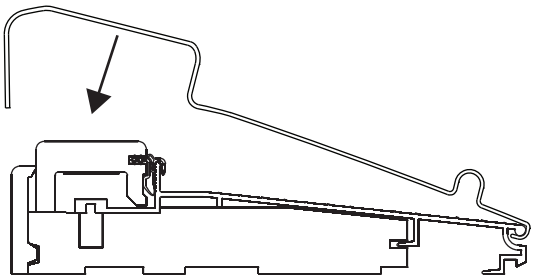
1. Place a 1/4" bead of (Elastomeric and Polyurethane) sealant at corners where saddle meets side jambs.

2. Remove paper backing from corner seal pad and position pad tight to the saddle, tucking behind weatherstrip and in line with edge of jamb. Place "hook" over inside edge as shown.

NOTE: Corner seal pads are handed.

MSCSPSA

Adjustable Sill Cover Instructions



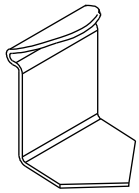
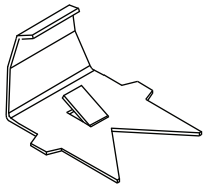
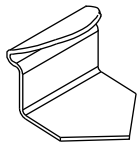
1. Position cover and hook onto sill.

NOTE: Be sure to remove sill cover before any type of floor covering is installed

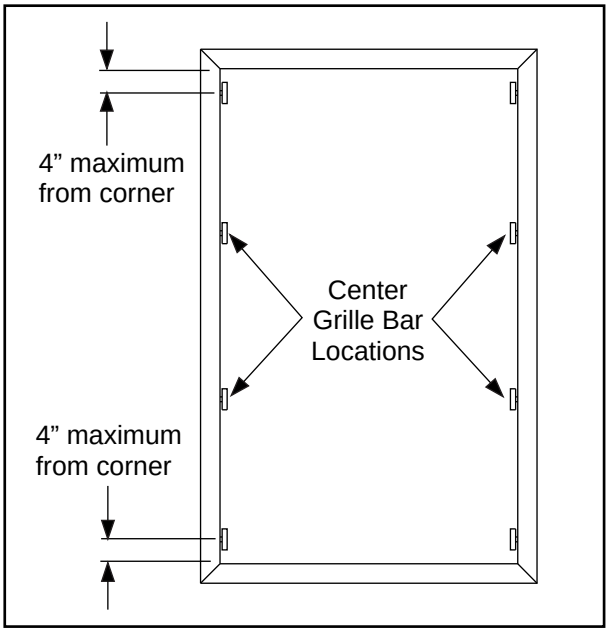
Grille Installation Instructions

THERMA-TRU DOORS

Grilles come complete with clips.

FRAMED	FLUSH GLAZED	CC
		
Part # RPWGMC2	Part # RPFGGC	Part # RPCGC

SPRING STEEL CLIPS



FRAMED LITES

Position Clips

Locate clips on vertical sides of frames 4” maximum from each corner and at center grille bar locations.

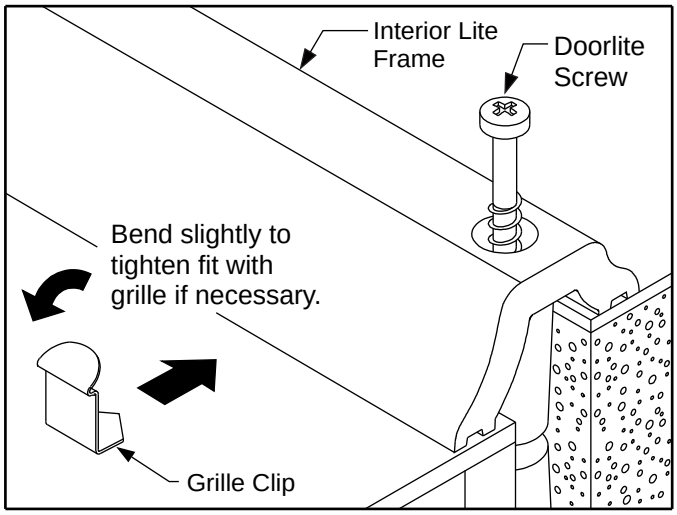
Installation for Lite Frames

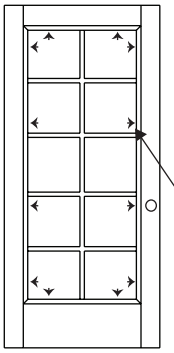
Install Clips

Loosen doorlite screws slightly.

Slide flat side of clips under interior side of doorlite frame.

Retighten screws.



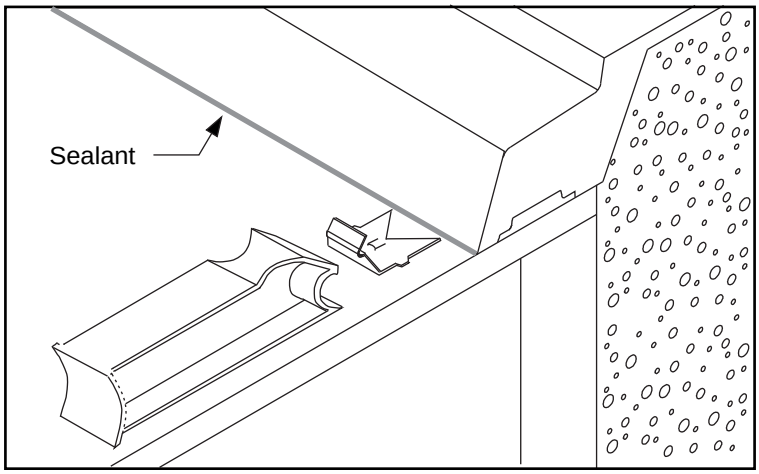


Installation for FC & SS Flush-Glazed Doors

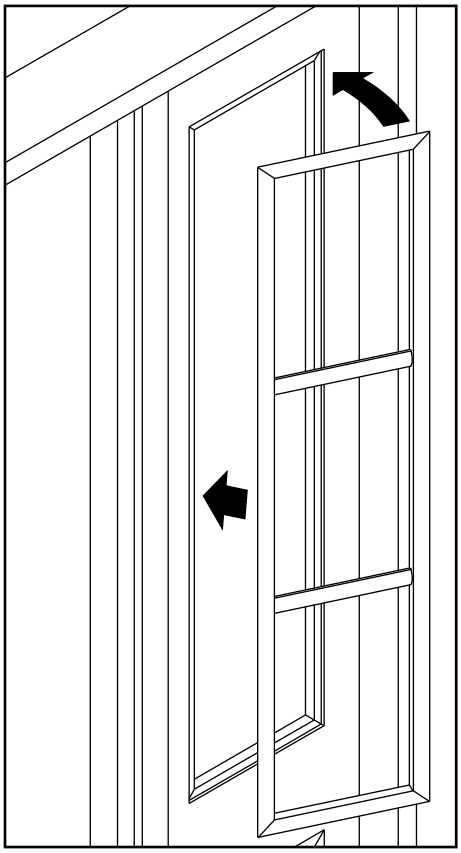
To assure proper installation, carefully remove any excess sealant at glass edge before installing grille clips.

Insert steel spring clips between stop and glass at the locations shown. AVOID PUTTING CLIPS IN LINE WITH MUNTINS HORIZONTAL AND VERTICAL GRILLE BARS. (Note: number of clips may vary from shown due to grille size and door style.)

Use the installation tool as shown to push the clip completely into the locked position.



Section Cut for Clarity



With all the clips installed, insert grille against clips on one side. Gently push opposite side of grille against glass, locking all clips into frame. Remember to gently press the top and bottom of the grille against the glass.

Clips will be hidden when grille is inserted.

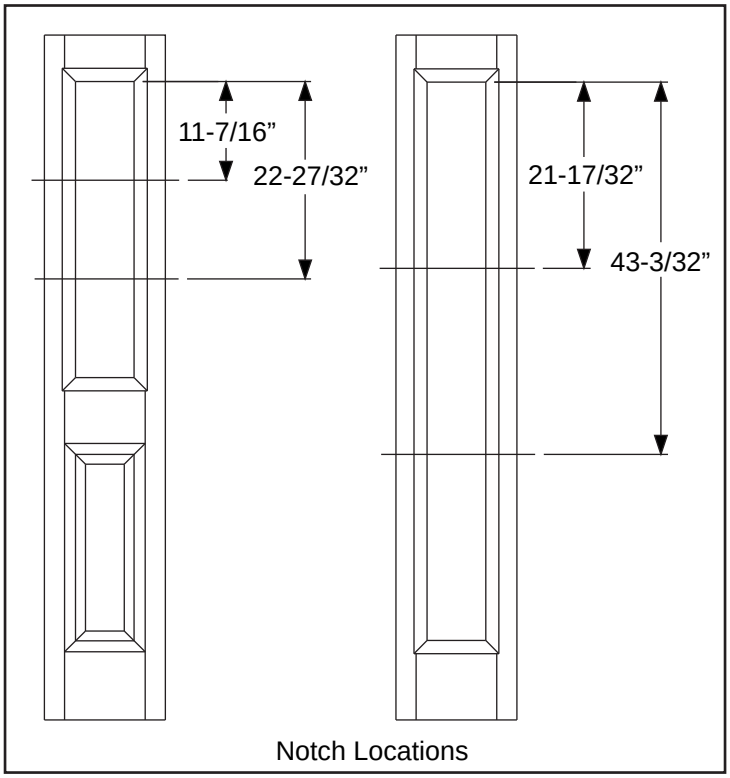
To remove, gently pull away from the glass surface at one long side of the grille where the muntins meet the grille frame.

Grille Installation Instructions

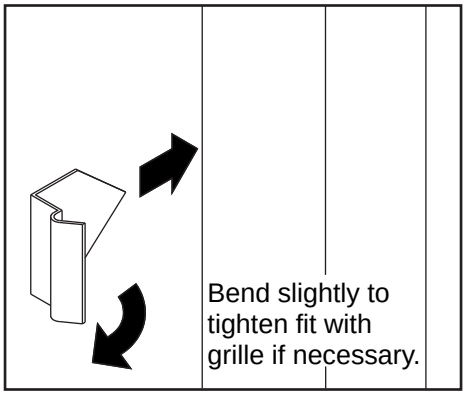
THERMA-TRU® DOORS

Installation for Flush-Glazed Classic-Craft®

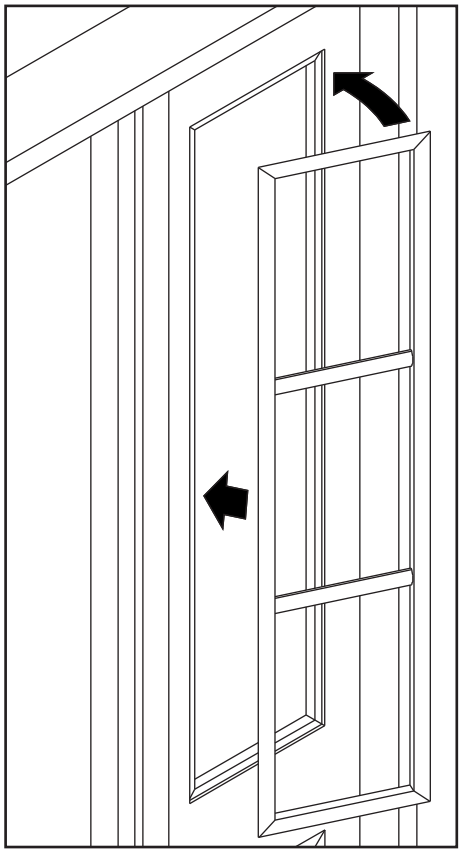
Locate grille clips under molding edges where molding meets glass.



Notch Locations



Insert grille clips by sliding in spade edge of clip under molding and press clip all the way in.



Insert grille into door, placing one long side against hardware.

Snap into place along all other sides.

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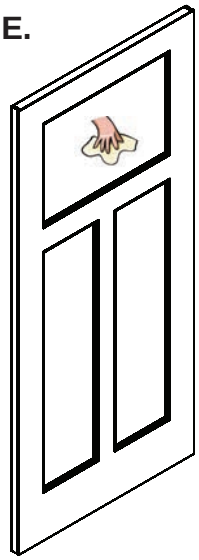
Lite Divider Installation (Classic-Craft American Style & Canvas)

THERMA-TRU DOORS

NOTE:
TEMPERATURE RANGE FOR OPTIMUM TAPE ADHESION IS 70 TO 100 F.
MINIMUM SUGGESTED APPLICATION TEMPERATURE IS 60 F.
THE DOOR AND DIVIDERS ARE TO BE IN THIS TEMPERATURE RANGE.
ALLOW 72 HOURS FOLLOWING APPLICATION
FOR FULL BOND STRENGTH OF TAPE ADHESIVE.



1. Remove black tape from both sides of the glass (if present), as indicated on the glass label.
2. Moisten a clean cloth with 70% Isopropyl Alcohol. Wipe both sides of glass as shown at right.

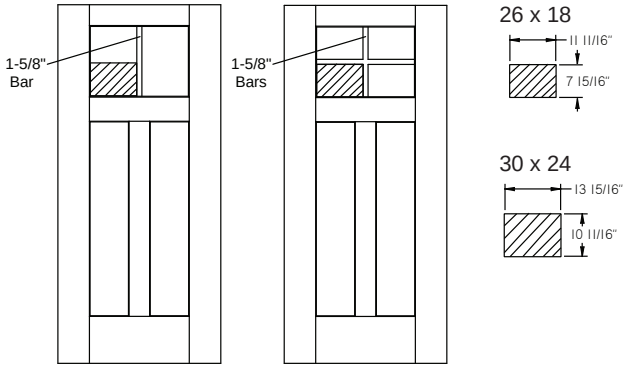
NOT PREPARING THE GLASS OR DOOR PANEL WILL RESULT IN POOR TAPE ADHESION.

3. Bars to be used from precut packs.

American Canvas

4. Lay out dividers in desired pattern in the opening. To allow for expansion or contraction, there should be 0.015” - 0.020” clearance on each side (use a business card as a shim)
5. Position template according to the diagrams in the following pages.
6. Working with vertical dividers first, remove carrier backing from the divider. Apply all vertical dividers BEFORE applying horizontal dividers. NOTE: ADHESIVE IS NOT REPOSITIONABLE
7. Position divider, adhesive side toward the glass, using the template as a guide for placement. You may need to slide template across area to ensure a straight application.
8. Press firmly to the glass to secure adhesive. Always use a J-Roller over the fully positioned dividers to meet required adhesion.
9. Apply remaining dividers in the same manner. (Repositioning the template where applicable)
10. Repeat the same installation steps for the other side of the door. On units with glass, always work from the same edge of the door. (lock or hinge) for vertical bars to ensure alighment inside and out.

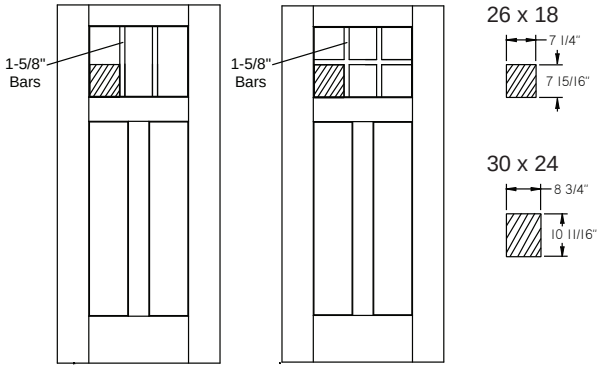
Template Part Number:
TPA2618LD2-P for 26 x 18
TPA3024LD2-P for 30 x 24



2-Lite Template Position

4-Lite Template Position

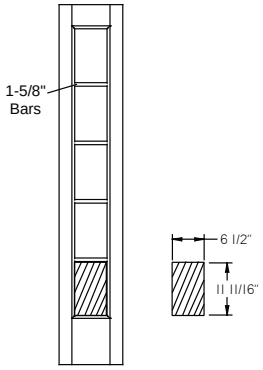
Template Part Number:
TPA2618LD3-P for 26 x 18
TPA3024LD3-P for 30 x 24



3-Lite Template Position

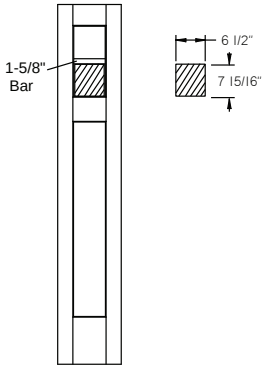
6-Lite Template Position

Template Part Number:
TPA0866LDSL5-P



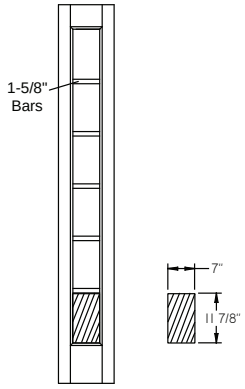
5-Lite
6’8” Sidelite
Template Position

Template Part Number:
TPA0818LDSL2-P



2-Lite
6’8” Craftsman Sidelite
Template Position

Template Part Number:
TPA0880LDSL6-P



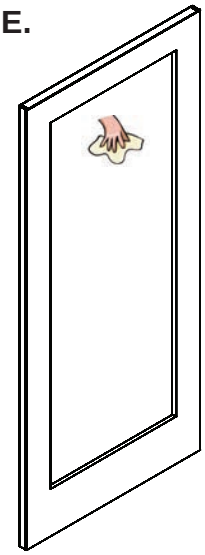
6-Lite
8’0” Sidelite
Template Position

Note: Template dimensions shown are approximate, rounded to nearest 1/16”, and are for reference only.

Lite and Door Divider Installation (Classic-Craft American Style Shaker)

THERMA-TRU DOORS

NOTE:
TEMPERATURE RANGE FOR OPTIMUM TAPE ADHESION IS 70 TO 100 F.
MINIMUM SUGGESTED APPLICATION TEMPERATURE IS 60 F.
THE DOOR AND DIVIDERS ARE TO BE IN THIS TEMPERATURE RANGE.
ALLOW 72 HOURS FOLLOWING APPLICATION
FOR FULL BOND STRENGTH OF TAPE ADHESIVE.



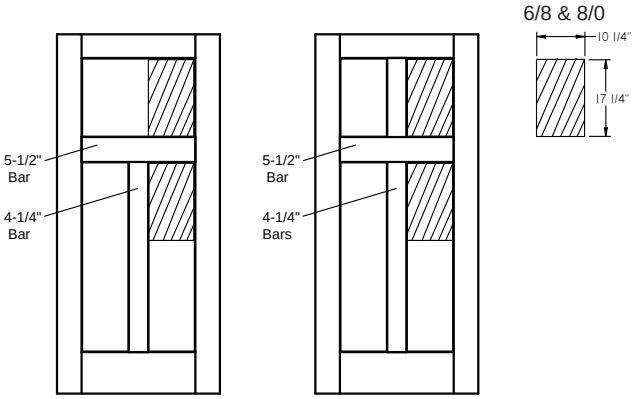
1. Remove black tape from both sides of the slab (if present), as indicated on the glass label.
2. Moisten a clean cloth with 70% Isopropyl Alcohol. Wipe both sides of glass or door panel as shown at right.

NOT PREPARING THE GLASS OR DOOR PANEL WILL RESULT IN POOR TAPE ADHESION.

3. Horizontal bars can be used from precut packs or cut from lineals. Vertical bars to be cut from lineals. For best quality, cut tape side down. Fiberglass bars should be trimmed on a dedicated double bevel compound miter saw with an extra fine finish carbide blade. Min. tooth counts as follows: 10” blade = 80 tooth or 12” blade = 96 tooth.

4. Lay out dividers in desired pattern in the opening. To allow for expansion or contraction, there should be 0.015” - 0.020” clearance on each side (use a business card as a shim)
5. Position template(s) according to the diagrams in the following pages.
6. Working with horizontal dividers first, remove carrier backing from the divider. Apply all horizontal dividers BEFORE applying vertical dividers. NOTE: ADHESIVE IS NOT REPOSITIONABLE
7. Position divider, adhesive side toward the glass or door panel, using the template as a guide for placement. You may need to slide template across area to ensure a straight application.
8. Press firmly to the glass or door panel to secure adhesive. Always use a J-Roller over the fully positioned dividers to meet required adhesion.
9. Apply remaining dividers in the same manner. (Repositioning the template where applicable)
10. Repeat the same installation steps for the other side of the door. On units with glass, always work from the same edge of the door.

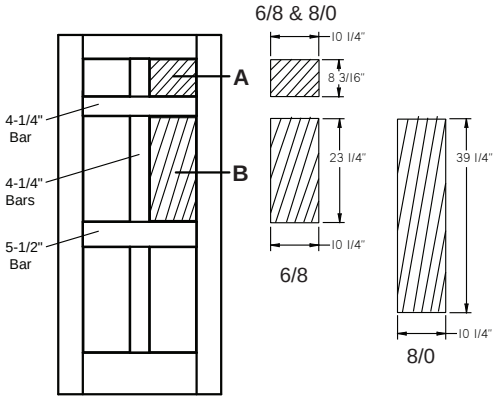
Template Part Number:
TPALD2-P (6/8 and 8/0 Flush Glazed)
TPADD2-P (6/8 and 8/0 Opaque)



2-Lite/Panel Craftsman Shaker Template Position

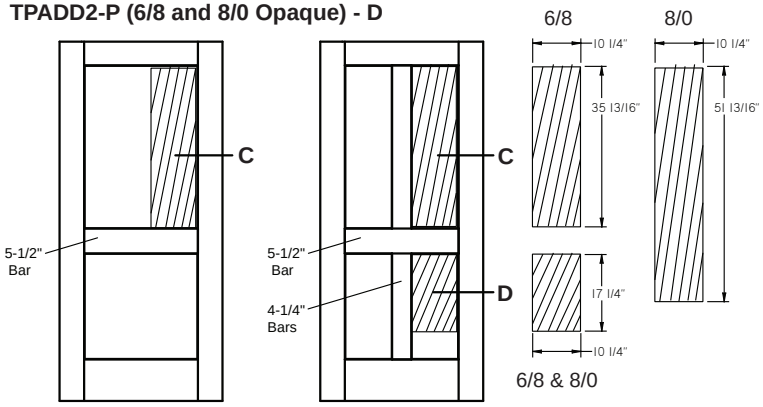
4-Lite/Panel Craftsman Shaker Template Position

Template Part Number:
TPADD6T-P (6/8 and 8/0 Opaque Top) - A
TPA2666DD6B-P (6/8 Opaque Bottom) - B
TPA2680DD6B-P (8/0 Opaque Bottom) - B



6-Panel Shaker Template Position

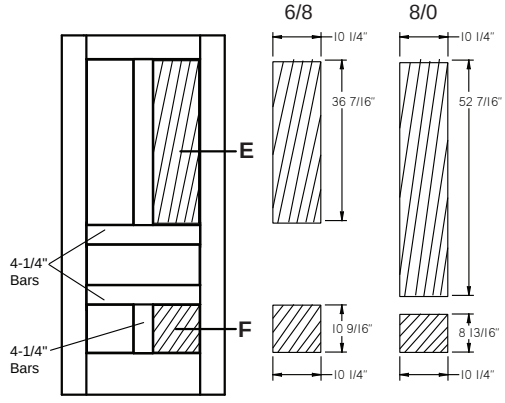
Template Part Number:
TPA2666LDST-P (6/8 Flush Glazed) - C
TPA2666DDST-P (6/8 Opaque) - C
TPA2680LDST-P (8/0 Flush Glazed) - C
TPA2680DDST-P (8/0 Opaque) - C
TPADD2-P (6/8 and 8/0 Opaque) - D



2-Lite/Panel Square Top Shaker Template Position

4-Lite/Panel Square Top Shaker Template Position

Template Part Number:
TPA2666DD5T-P (6/8 Opaque) - E
TPA2680DD5T-P (8/0 Opaque) - E
TPA2666DD5B-P (6/8 Opaque) - F
TPA2680DD5B-P (8/0 Opaque) - F



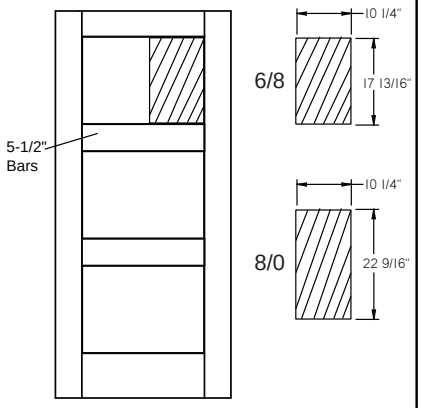
5-Panel Square Top Shaker Template Position

Note: Template dimensions shown are approximate, rounded to nearest 1/16”, and are for reference only.

Lite and Door Divider Installation (Classic-Craft American Style Shaker)

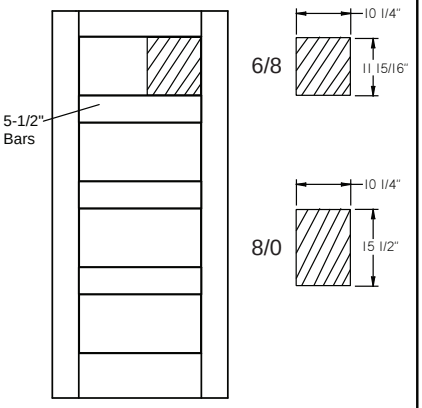
THERMA-TRU® DOORS

Template Part Number:
TPA2666LD3-P (6/8 Flush Glazed)
TPA2666DD3-P (6/8 Opaque)
TPA2680LD3-P (8/0 Flush Glazed)
TPA2680DD3-P (8/0 Opaque)



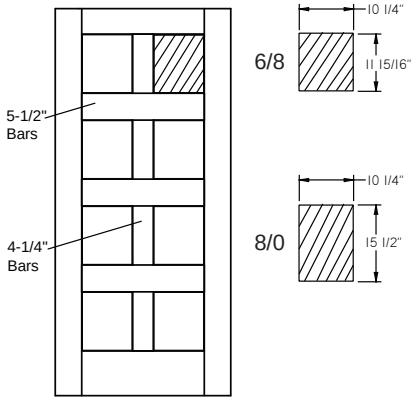
3-Lite/Panel Template Position

Template Part Number:
TPA2666LD4-P (6/8 Flush Glazed)
TPA2666DD4-P (6/8 Opaque)
TPA2680LD4-P (8/0 Flush Glazed)
TPA2680DD4-P (8/0 Opaque)



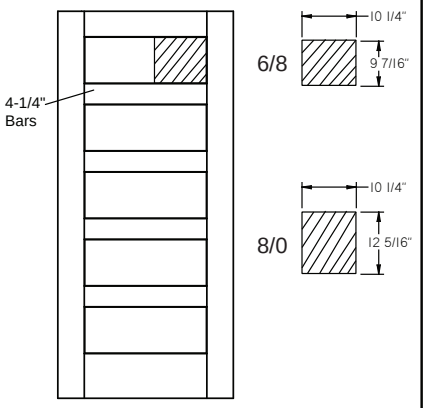
4-Lite/Panel Template Position

Template Part Number:
TPA2666LD4-P (6/8 Flush Glazed)
TPA2680LD4-P (8/0 Flush Glazed)



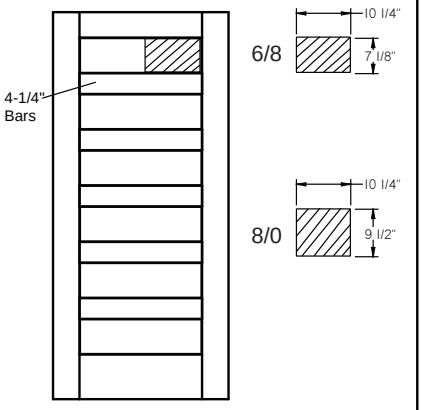
8-Lite Template Position

Template Part Number:
TPA2666LD5-P (6/8 Flush Glazed)
TPA2666DD5-P (6/8 Opaque)
TPA2680LD5-P (8/0 Flush Glazed)
TPA2680DD5-P (8/0 Opaque)



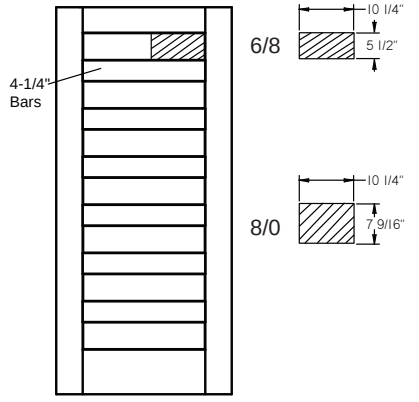
5-Lite/Panel Template Position

Template Part Number:
TPA2666LD6-P (6/8 Flush Glazed)
TPA2680LD6-P (8/0 Flush Glazed)



6-Lite Template Position

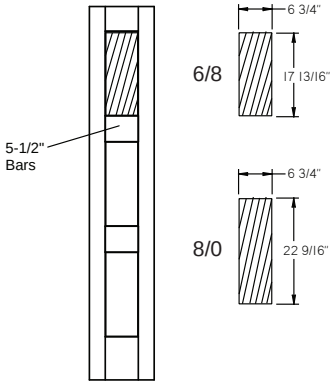
Template Part Number:
TPA2666LD7-P (6/8 Flush Glazed)
TPA2680LD7-P (8/0 Flush Glazed)



7-Lite Template Position

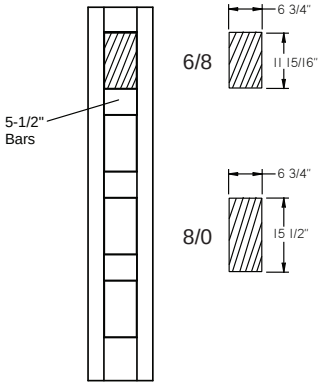
Note: Template dimensions shown are approximate, rounded to nearest 1/16”, and are for reference only.

Template Part Number:
TPA0866LD3-P (6/8 Flush Glazed)
TPA0880LD3-P (8/0 Flush Glazed)



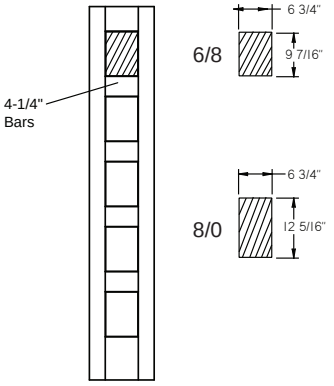
3-Lite Template Position

Template Part Number:
TPA0866LD4-P (6/8 Flush Glazed)
TPA0880LD4-P (8/0 Flush Glazed)



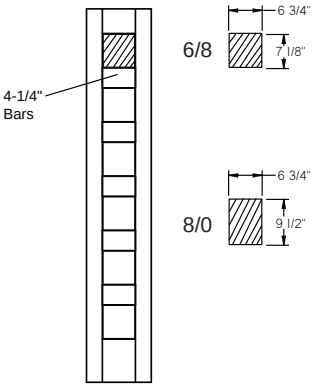
4-Lite Template Position

Template Part Number:
TPA0866LD5-P (6/8 Flush Glazed)
TPA0880LD5-P (8/0 Flush Glazed)



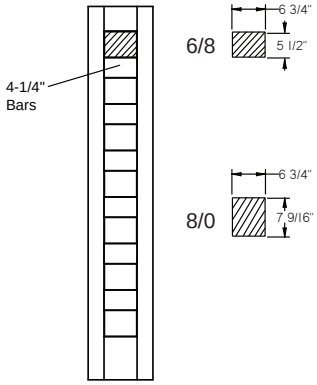
5-Lite Template Position

Template Part Number:
TPA0866LD6-P (6/8 Flush Glazed)
TPA0880LD6-P (8/0 Flush Glazed)



6-Lite Template Position

Template Part Number:
TPA0866LD7-P (6/8 Flush Glazed)
TPA0880LD7-P (8/0 Flush Glazed)



7-Lite Template Position

Note: Template dimensions shown are approximate, rounded to nearest 1/16”, and are for reference only.

SDL Bar Installation Instructions (Smooth Star / Fiber Classic)

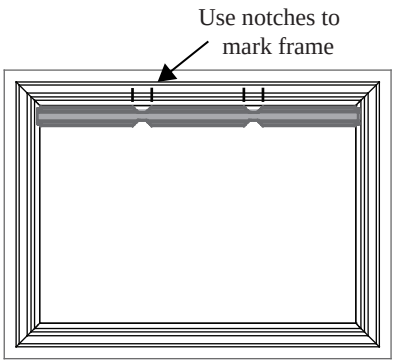
THERMA-TRU DOORS

NOTE: TEMPERATURE RANGE FOR OPTIMUM TAPE ADHESION IS 70° TO 100°F. MINIMUM APPLICATION TEMPERATURE IS 60°F. BOTH THE DOOR AND LITE DIVIDER ARE TO BE IN THIS TEMPERATURE RANGE. ADHESIVE IS NOT REPOSITIONABLE.

Materials Needed:
70% Isopropyl Alcohol or adhesion promoting solution
Clean rags
½" Masking tape
J-Roller
Shim stock or business card
Pencil
Plastic zip ties or coffee stirrers
Sanding materials

When installing over GBG's only use bronze flat bar patterns

When installing on flush-glazed slabs, remove black tape as indicated on the glass label.



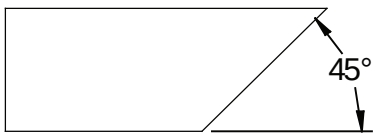
SDL Preparation for Interlocking Bar Patterns:

1. Starting at the external glass side, take a horizontal divider and place it at the top of the glass. Center the bar in the opening and use the notch(es) on the divider to mark on the frame the top position of the vertical divider(s). Slide the bar to the bottom of the glass and repeat for the bottom position of the vertical dividers.

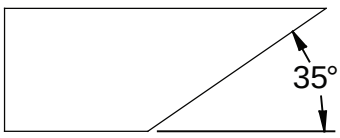
2. Take a vertical divider and center between the frame markings. Mark amount of bar to trim (if necessary). There should be 0.015" - 0.020" clearance (use a business card as a shim) on each side to allow for expansion or contraction. Repeat for each vertical divider. Be sure to mark each divider with its location (left/right).

3. Trim bars at appropriate angle (see below) to their correct size. Trimming may be done with a stationary belt sander, disc sander, or sanding block.

Framed Lites
(7x64, 21x15, 22x47, 22x64)



Framed Lites
(8x36, 8x47, 20x64, 22x36)



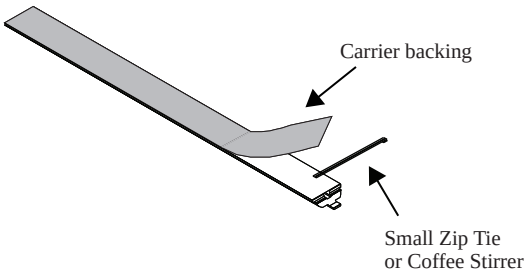
Flush Glazed
(all sizes)

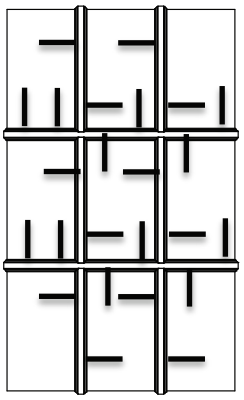
4. Place a trimmed vertical bar to one side of the glass and use the notches on the dividers to mark on the frame the position of the horizontal dividers. Repeat on the other side of the glass.

5. Assemble the vertical and horizontal bars together and center the bars on the glass at the frame markings without removing the carrier backing tape. Mark amount of bar to trim (if necessary). There should be 0.015" - 0.020" clearance on each side. Repeat for each horizontal divider. Be sure to mark each divider with its location (top, bottom, center, etc).

6. Disassemble bars. Trim bars at appropriate angle to their correct size.

7. Assemble the horizontal and vertical divider(s). Use masking tape to secure the divider bars together at the joints. Peel off the Carrier Backing from all of the divider pieces. Clean any trimming residue from tape using 70% Isopropyl Alcohol. Lightly place the tips of small zip ties or coffee stirrers roughtly 1/8" onto the adhesive backs as shown. For each of the divider bars, position 1 tie at each end of the divider and each joint, and 1-2 ties in the middle. The ties will keep the adhesive backing off of the glass during final positioning.





Glass Preparation:

Moisten a clean cloth with 70% Isopropyl Alcohol or use an adhesion promoting solution. Wipe the glass before attaching dividers. Allow to dry.

FAILURE TO PREPARE THE GLASS PROPERLY WILL RESULT IN POOR TAPE ADHESION.
DO NOT USE A GLASS CLEANER TO PERPARE THE GLASS AS THIS WILL PREVENT PROPER ADHESION.

SDL Installation:

1. Position the divider grid back onto the glass using the frame position marks. Check to ensure that, for all of the frame to divider points, there is a 0.015" - 0.020" gap between the divider and the frame. Once in position, press down at all of the ends opposite the zip tie to lock the position, and then pull out that zip tie. Once all of the divider ends are attached, pull out the middle zip ties from the dividers. Using a J-Roller, roll firmly along the entire length of the horizontal and vertical dividers. Look through the interior side to confirm all dividers adhere to the glass, particularly around the perimeter and divider joints. Once attached, remove the masking tape.

2. Repeat steps for interior frame side.

SDL Bar Installation Instructions (Smooth Star / Fiber Classic)

THERMA-TRU DOORS

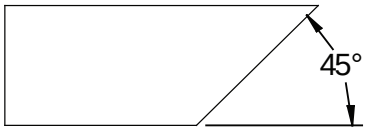
SDL Preparation for Non-Interlocking Bar Patterns:

1. Make template to the dimensions required for your lite pattern (see subsequent pages).

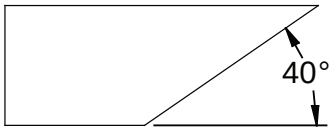
2. Beginning with the exterior, position each divider using the proper template and mark position on the frame. Center bar in opening. Mark amount of bar to be trimmed (if necessary). There should be 0.015" - 0.020" clearance (use a business card as a shim) on each side to allow for expansion or contraction. Repeat for each divider. Be sure to mark each divider with its location (top, middle, bottom, etc).

3. Trim bars at appropriate angle (see below) to their correct size. Trimming may be done with a stationary belt sander, disc sander, or sanding block.

Framed Lites
(7x64, 21x15, 22x47, 22x64)



Framed Lites
(8x36, 8x47, 20x64, 22x36)



Flush Glazed
(all sizes)

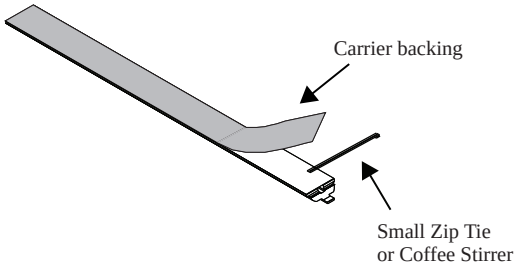
Glass Preparation:

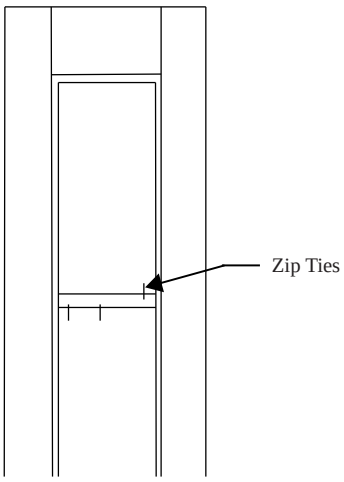
Moisten a clean cloth with 70% Isopropyl Alcohol or use an adhesion promoting solution. Wipe the glass before attaching dividers. Allow to dry.

FAILURE TO PREPARE THE GLASS PROPERLY WILL RESULT IN POOR TAPE ADHESION.
DO NOT USE A GLASS CLEANER TO PERPARE THE GLASS AS THIS WILL PREVENT PROPER ADHESION.

SDL Installation:

1. Peel off the Carrier Backing from all of the divider pieces. Clean any trimming residue from tape using 70% Isopropyl Alcohol. Lightly place the tips of small zip ties or coffee stirrers roughly 1/8" onto the adhesive backs as shown. For each of the divider bars, position 1 tie at each end of the divider and 1-2 ties in the middle. The ties will keep the adhesive backing off of the glass during final positioning.

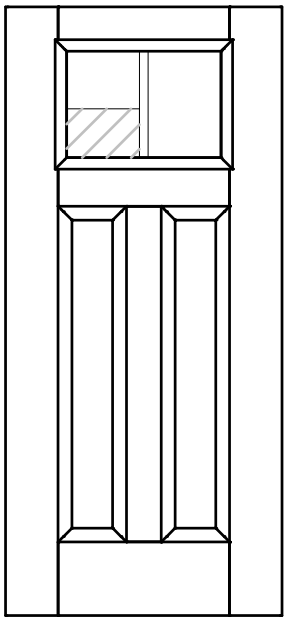


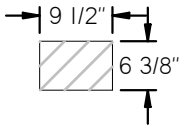


2. Position the dividers back onto the glass using the frame marks. Check that the dividers cover the internal GBGs (if present). Press down on each end of the divider to lock the position and remove the zip tie. Repeat for the other end. Remove the remaining zip tie(s). Using a J-Roller, roll firmly along the entire length of the dividers. Look through the interior side to confirm all dividers adhere to the glass, particularly around the perimeter.

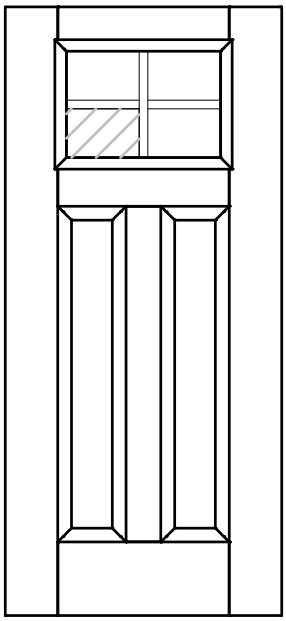
3. Repeat steps for the interior dividers. Check the alignment of the interior dividers with the exterior dividers before attaching interior dividers.

Craftsman Lite 2 Panel
2W1H

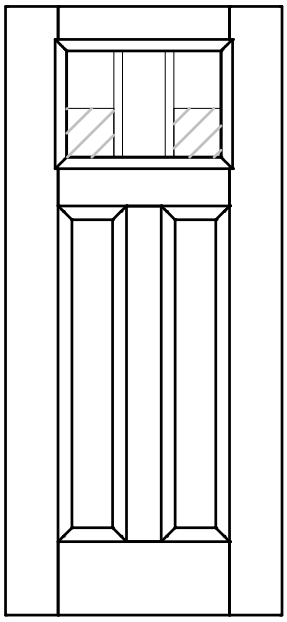


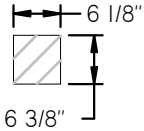


Craftsman Lite 2 Panel
2W2H

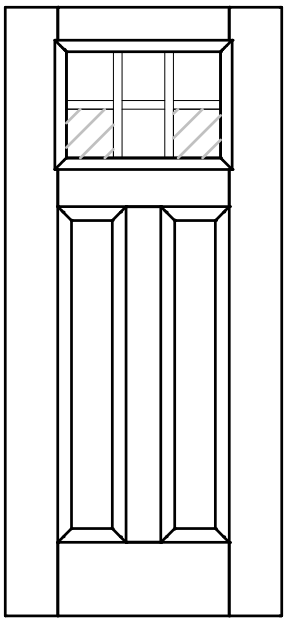


Craftsman Lite 2 Panel
3W1H





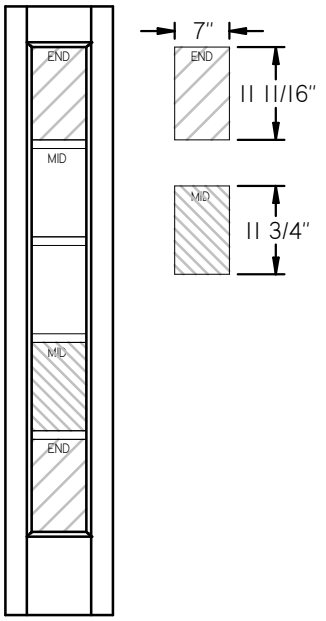
Craftsman Lite 2 Panel
3W2H



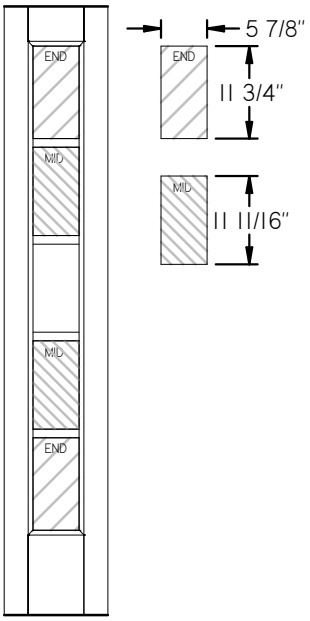
SDL Bar Installation Instructions (Smooth Star / Fiber Classic)

THERMA-TRU® DOORS

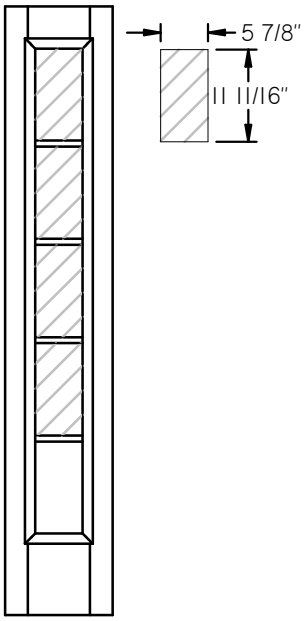
Full Lite Sidelite
Flush-Glazed 08x64 IW5H



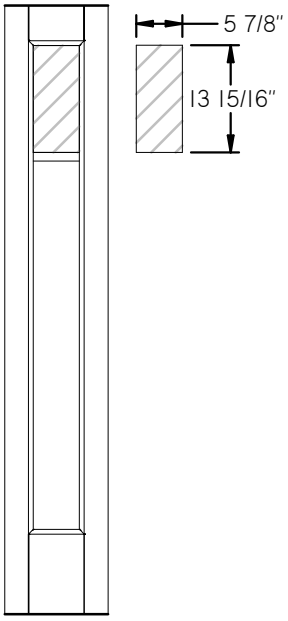
Full Lite Sidelite
Flush-Glazed 07x64 IW5H



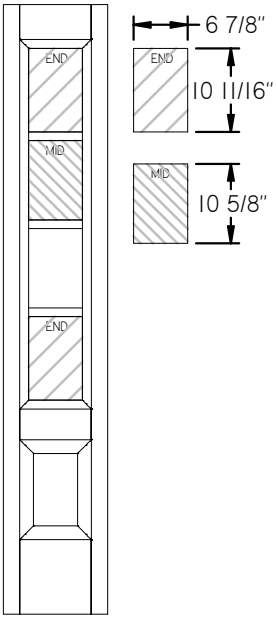
Full Lite Sidelite
Framed 07x64 IW5H



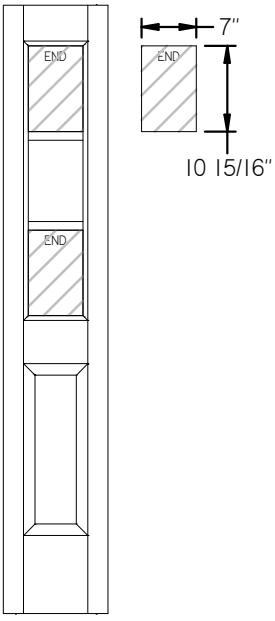
Full Lite Sidelite Flush-Glazed
08x64 1 Lite Craftsman



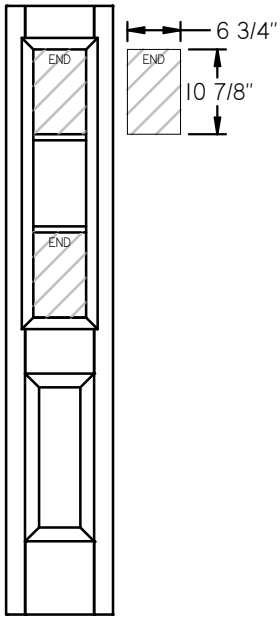
3/4 Lite Sidelite
Framed 08x47 IW4H



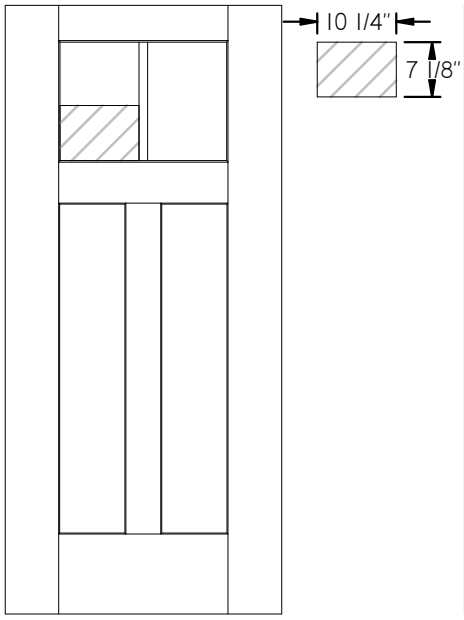
Half Lite Sidelite
Flush-Glazed 08x36 IW3H



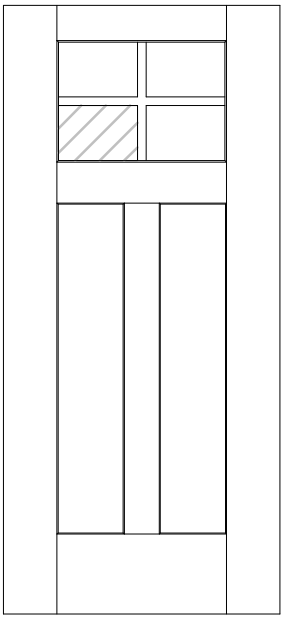
Half Lite Sidelite
Framed 08x36 IW3H



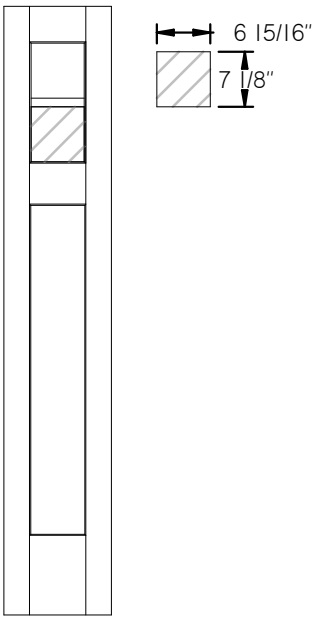
Craftsman Lite 2 Panel Shaker
Flush-Glazed 2WIH



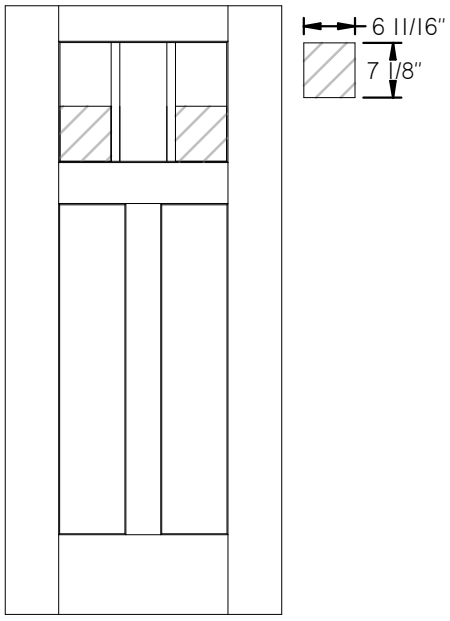
Craftsman Lite 2 Panel Shaker
Flush-Glazed 2W2H



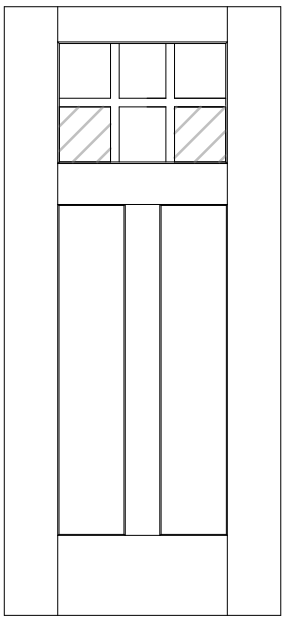
Craftsman Shaker Sidelite
Flush-Glazed 1W2H



Craftsman Lite 2 Panel Shaker
Flush-Glazed 3WIH



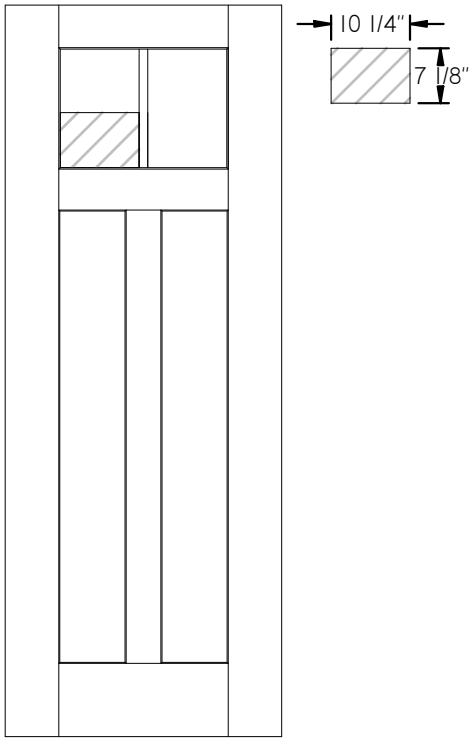
Craftsman Lite 2 Panel Shaker
Flush-Glazed 3W2H



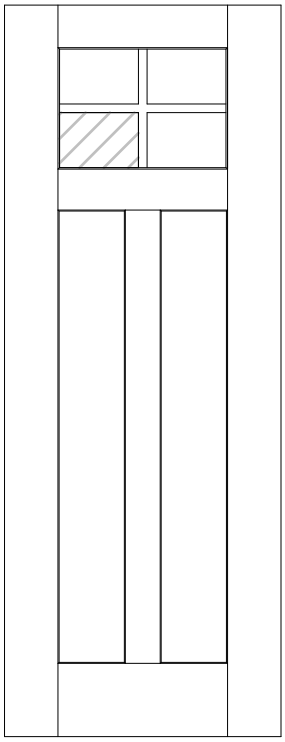
SDL Bar Installation Instructions (Smooth Star / Fiber Classic)

THERMA-TRU® DOORS

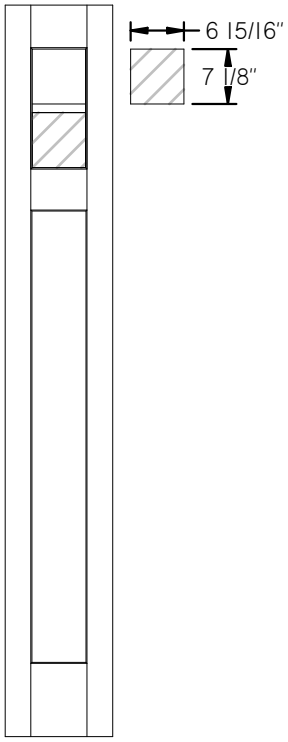
8' Craftsman Lite2 Panel Shaker Flush-Glazed 2W1H



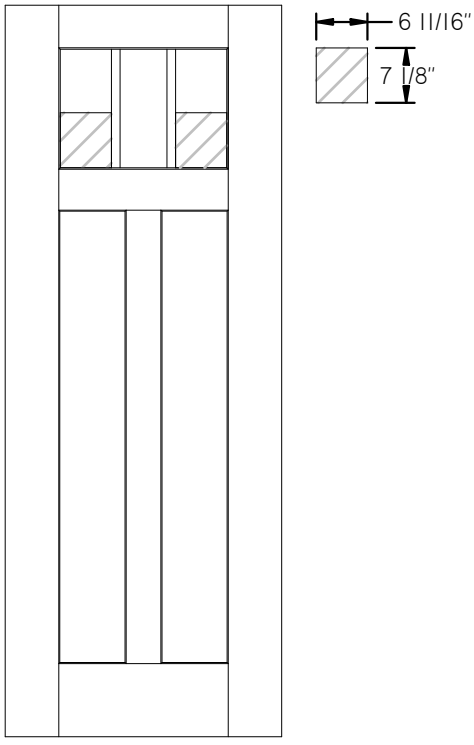
8' Craftsman Lite2 Panel Shaker Flush-Glazed 2W2H



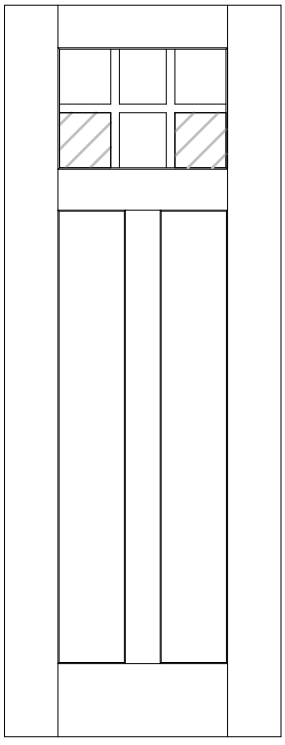
8' Craftsman Lite2 Panel Shaker Sidelite Flush-Glazed 2W2H



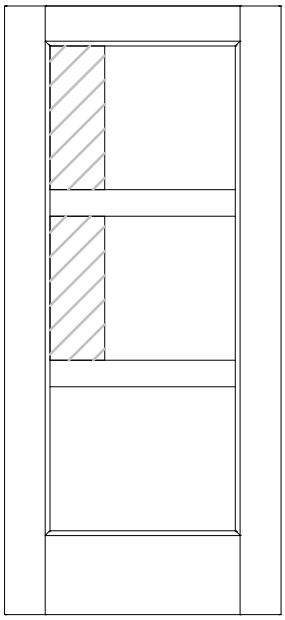
8' Craftsman Lite 2 Panel Shaker Flush-Glazed 3W1H



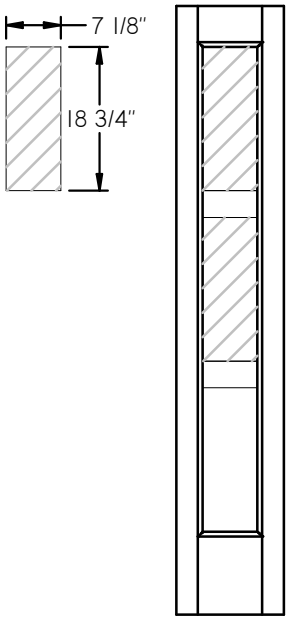
8' Craftsman Lite 2 Panel Shaker Flush-Glazed 3W2H



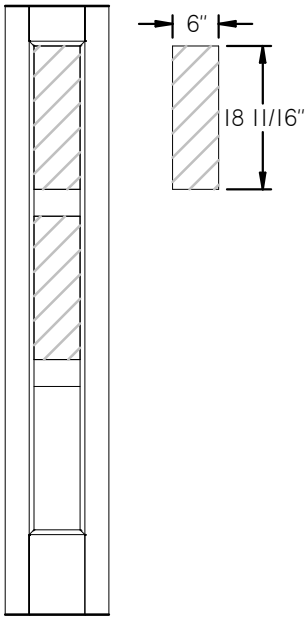
Full Lite
Flush-Glazed IW3H



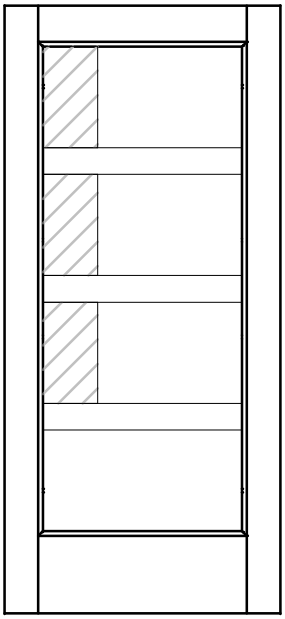
Full Lite Sidelite
Flush-Glazed 08x64 IW3H



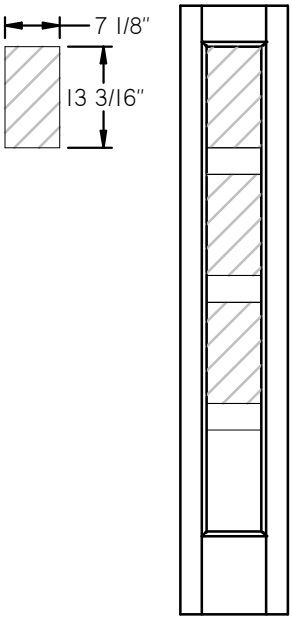
Full Lite Sidelite
Flush-Glazed 07x64 IW3H



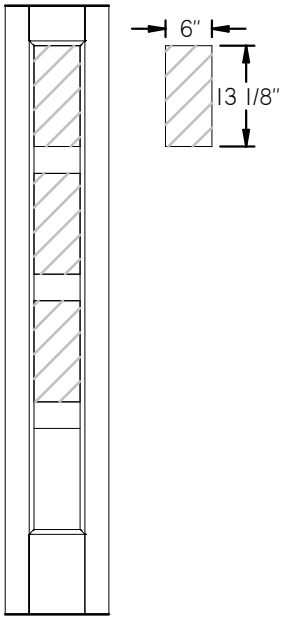
Full Lite
Flush-Glazed IW4H



Full Lite Sidelite
Flush-Glazed 08x64 IW4H



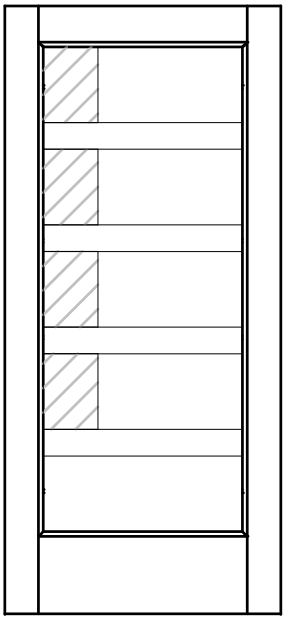
Full Lite Sidelite
Flush-Glazed 07x64 IW4H



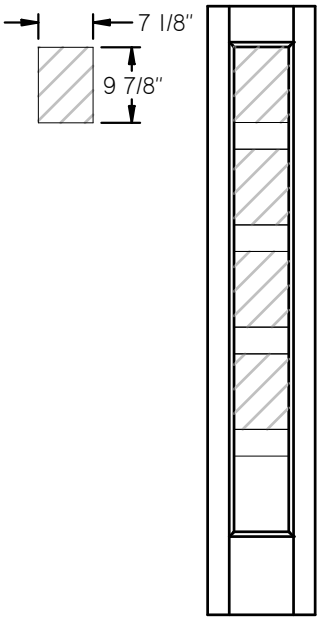
SDL Bar Installation Instructions (Smooth Star / Fiber Classic)

THERMA-TRU® DOORS

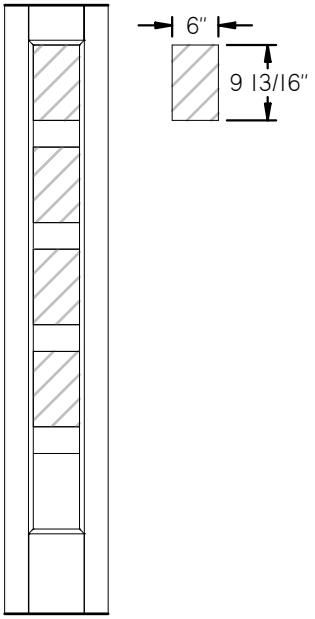
Full Lite
Flush-Glazed IW5H



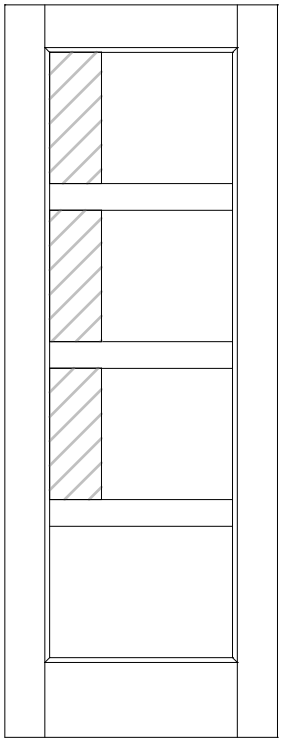
Full Lite Sidelite
Flush-Glazed 08x64 IW5H



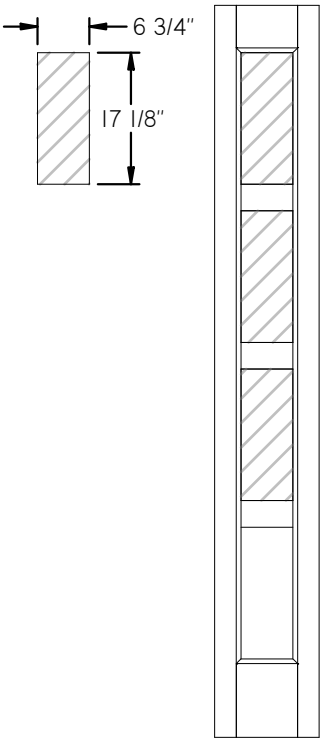
Full Lite Sidelite
Flush-Glazed 07x64 IW5H



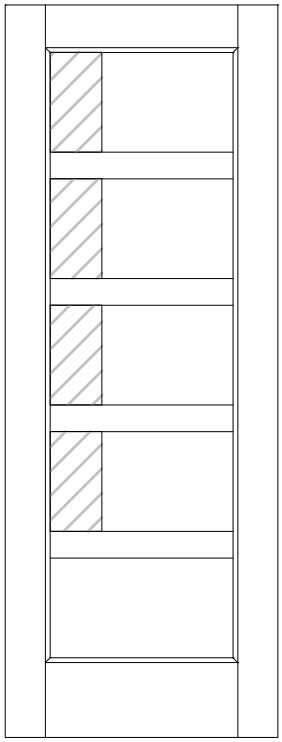
8' Full Lite
Flush-Glazed IW4H



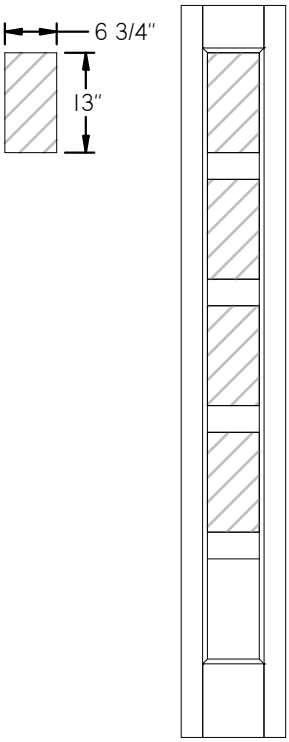
8' Full Lite Sidelite
Flush-Glazed 07x80 IW4H



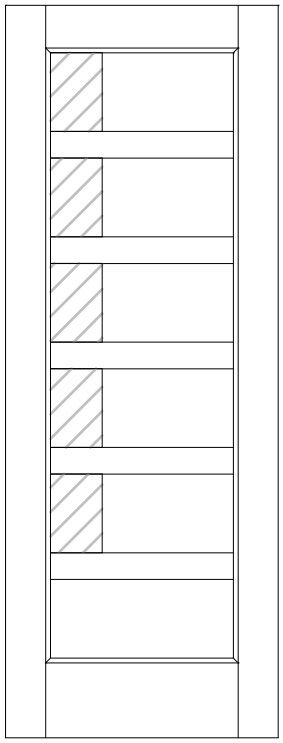
8' Full Lite
Flush-Glazed IW5H



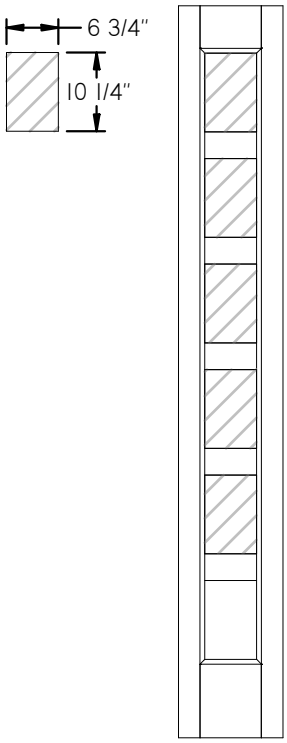
8' Full Lite Sidelite
Flush-Glazed 07x80 IW5H



8' Full Lite
Flush-Glazed IW6H



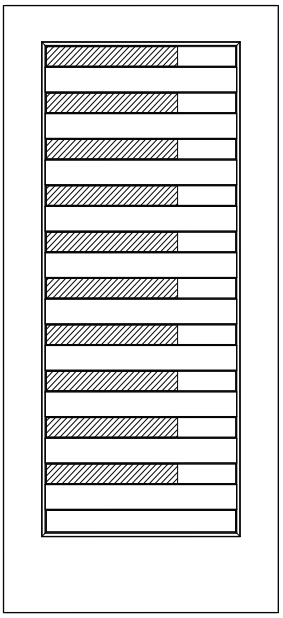
8' Full Lite Sidelite
Flush-Glazed 07x80 IW6H

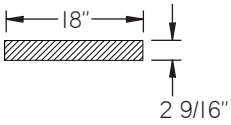


SDL Bar Installation Instructions (Smooth Star / Fiber Classic)

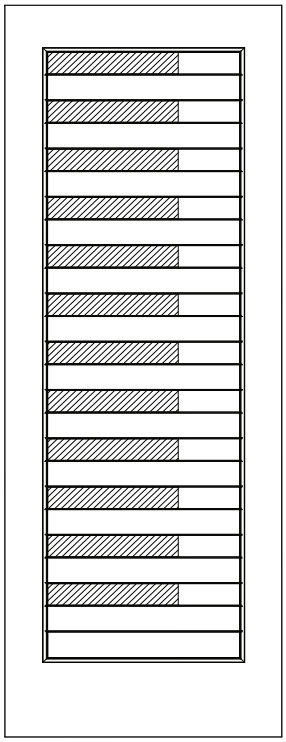
THERMA-TRU® DOORS

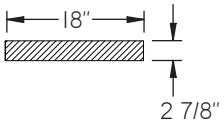
Full Lite
Flush-Glazed IW 11H



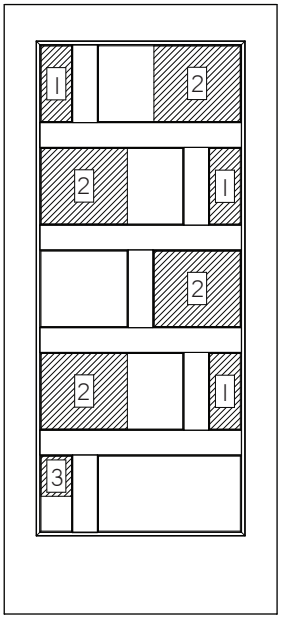


8' Full Lite
Flush-Glazed IW 13H

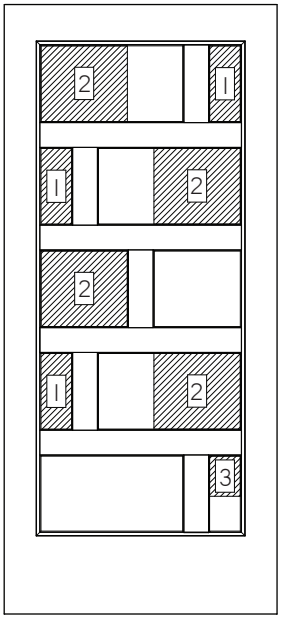




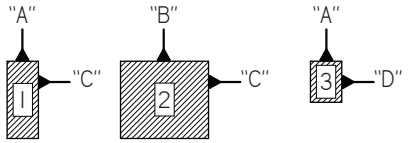
Full Lite Flush-Glazed Contemporary Left



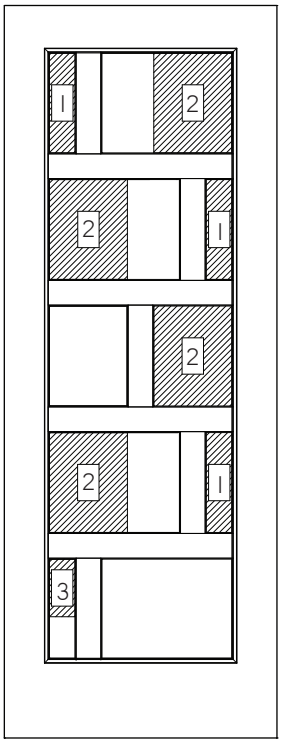
Full Lite Flush-Glazed Contemporary Right



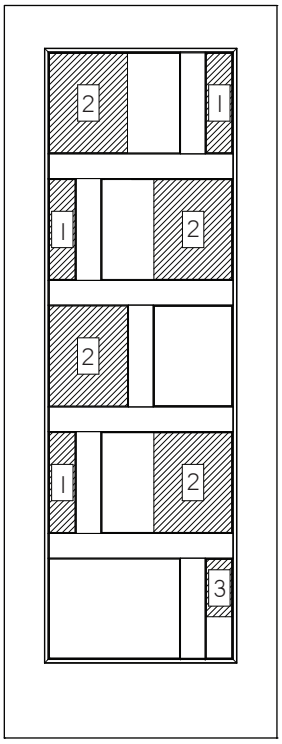
Door Style	DIM "A"	DIM "B"	DIM "C"	DIM "D"
Fiber Classic 6/8 x 2/8 and 2/6	$2\frac{3}{8}$"	$8\frac{1}{4}$"	$9\frac{7}{8}$"	$5\frac{1}{4}$"
Fiber Classic 6/8 x 3/0 and 2/10	4"	$11\frac{1}{4}$"		
Fiber Classic 8/0 x 2/8 and 2/6	$2\frac{3}{8}$"	$8\frac{3}{16}$"	13"	$7\frac{1}{2}$"
Fiber Classic 8/0 x 3/0 and 2/10	$3\frac{3}{8}$"	$10\frac{3}{16}$"		
Smooth-Star 6/8 x 2/8 and 2/6	$3\frac{3}{16}$"	$8\frac{1}{4}$"	$9\frac{7}{8}$"	$5\frac{1}{4}$"
Smooth-Star 6/8 x 3/0 and 2/10	$3\frac{1}{2}$"	$10\frac{5}{16}$"		
Smooth-Star 8/0 x 2/8 and 2/6	$2\frac{3}{8}$"	$8\frac{3}{16}$"	13"	$7\frac{1}{2}$"
Smooth-Star 8/0 x 3/0 and 2/10	$3\frac{3}{8}$"	$10\frac{3}{16}$"		



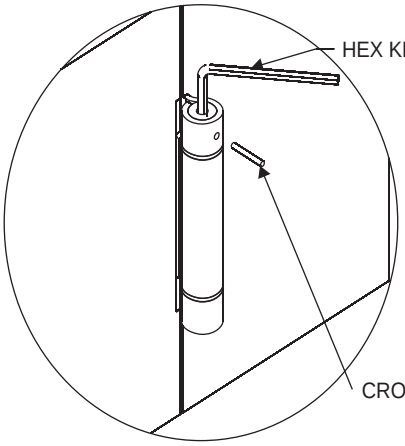
8' Full Lite Flush-Glazed Contemporary Left



8' Full Lite Flush-Glazed Contemporary Right



Spring Hinge Instructions

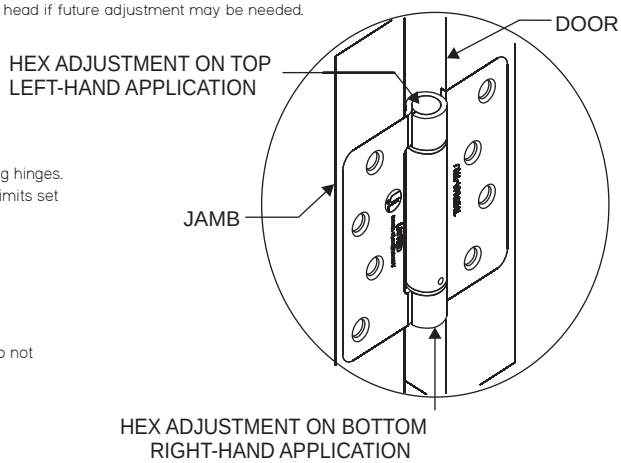


INSTRUCTIONS FOR THERMA-TRU ADJUSTABLE TENSION SPRING HINGE

Installation:
First mount the hinges by matching the hinge leaf (with the Therma-Tru logo) to the door, then match the other leaf (with the "UL" logo) to the jamb. Doing this may require having adjustment end down depending on handing.

1. Place door in closed position. Insert allen wrench in hex adjustment hole as shown in left diagram.
2. If adjustment end is up, turn hex key clockwise to desired spring tension. If adjustment end is down, turn key counterclockwise to desired spring tension. Observe caution notes.
3. Insert cross pin when holes in center stud and hinge knuckle line up. Slowly release pressure on the hex key.
4. Remove hex key and test closing action of door.
5. Repeat steps 1-4, if necessary, to increase spring tension.

To make tension adjustment tamperproof, snip off cross pin at break-away head. Do not remove head if future adjustment may be needed.



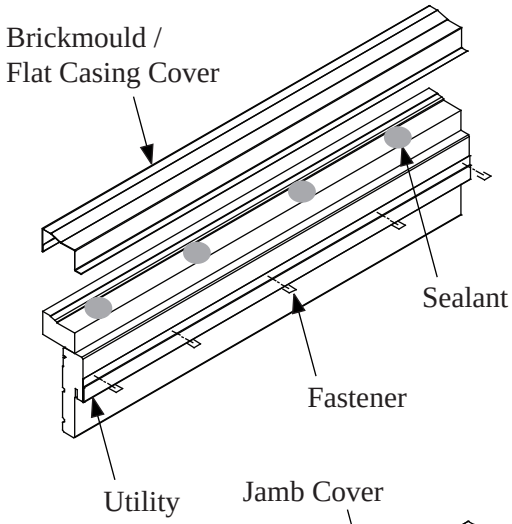
- Use 3-1/2" spring hinge for 1-3/8" thick doors, maximum 2'8" wide X 7' high.
- Use 4" or 4-1/2" spring hinge for 1-3/4" thick doors, maximum 3' wide X 7' high
- Doors over 5' high require three hinges. At least two of the three must be spring hinges.
- The maximum door size and number of spring hinges required are based on limits set forth in NFPA 80. For maximum versatility, use all spring hinges.

NOTE:
Adjust spring hinge to minimum tension required to close and latch the door. Overtensioning will reduce the spring life.

Caution: Do not exceed three holes of tension for doors opening 180 degrees. Do not exceed four holes of tension for doors opening 90 degrees.

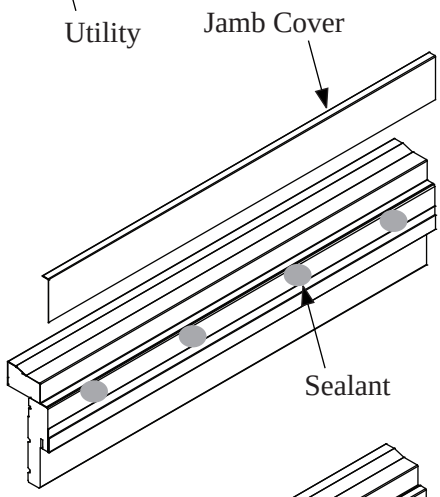
Jamb Section Cladding

2 Piece Jamb Cover for Units with Fixed Panel(s) and Venting Sidelite(s)

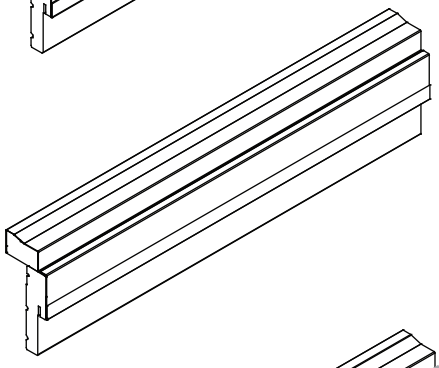


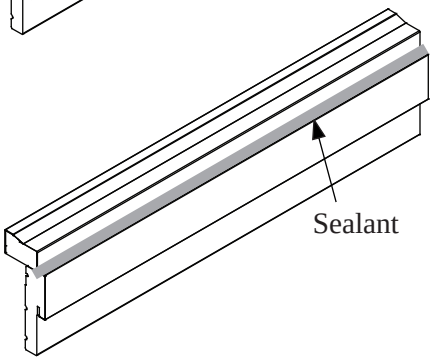
1. Install Utility trim flush with jamb rabbet. Fasten Utility with 1/4” crown x 1/2” staples approximately every 12”.

2. Apply dabs of sealant. Install Brickmould.



3. Apply dabs of sealant. Install Jamb Cover. Tuck into Utility.





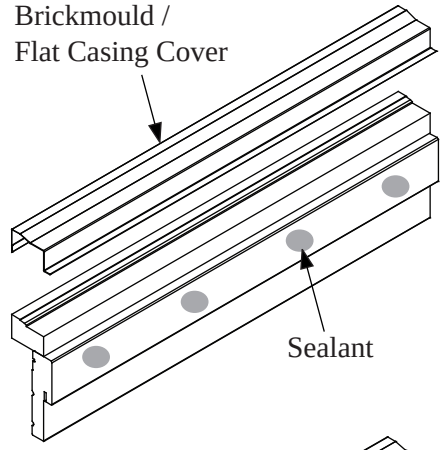
4. Seal along all seams.

Coil Cladding

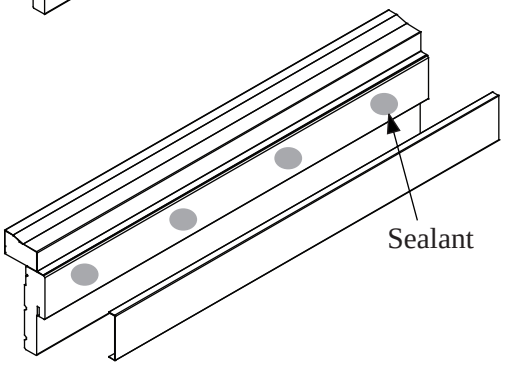
THERMA-TRU DOORS

Jamb Section Cladding

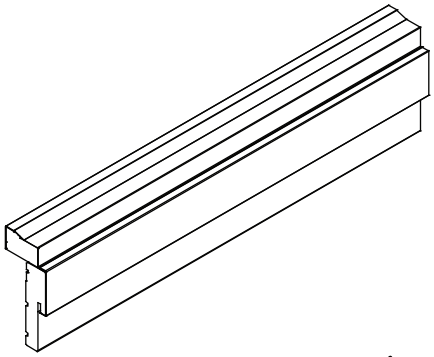
1 Piece Jamb Cover for Units without Fixed Panels

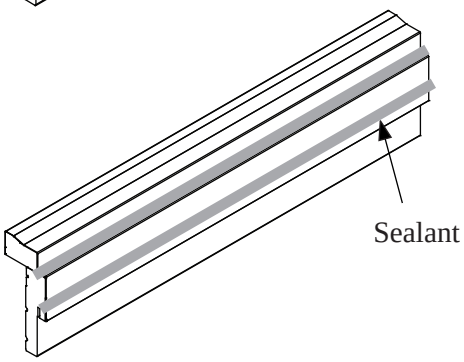


1. Apply dabs of sealant. Install Brickmould.



2. Apply dabs of sealant. Install Jamb Cover.

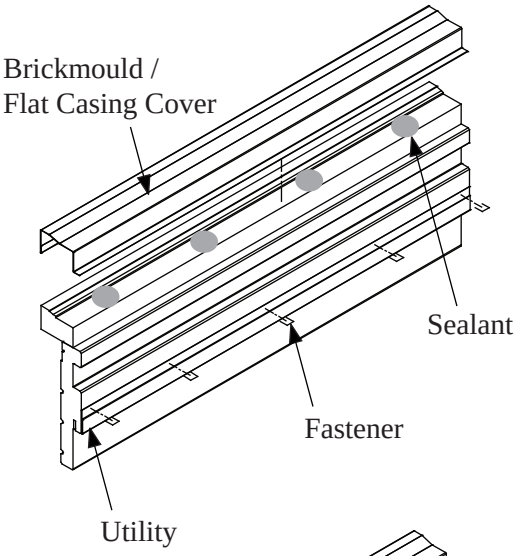




3. Seal along all seams.

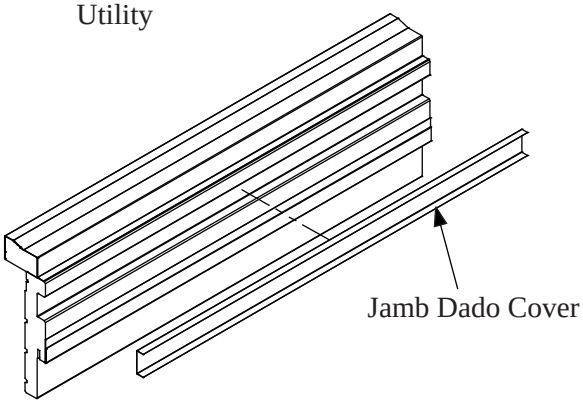
Jamb Section Cladding

3 Piece Jamb Cover for Units with Sliding Screens

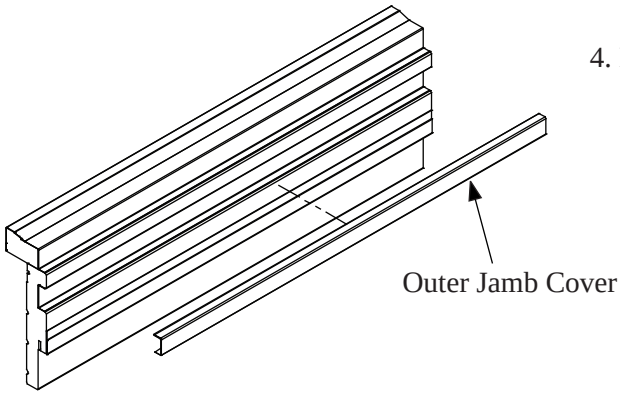


1. Install Utility trim flush with jamb rabbet. Fasten Utility with 1/4” crown x 1/2” staples approximately every 12”.

2. Apply dabs of sealant. Install Brickmould.



3. Install Dado Cover into Jamb Dado.



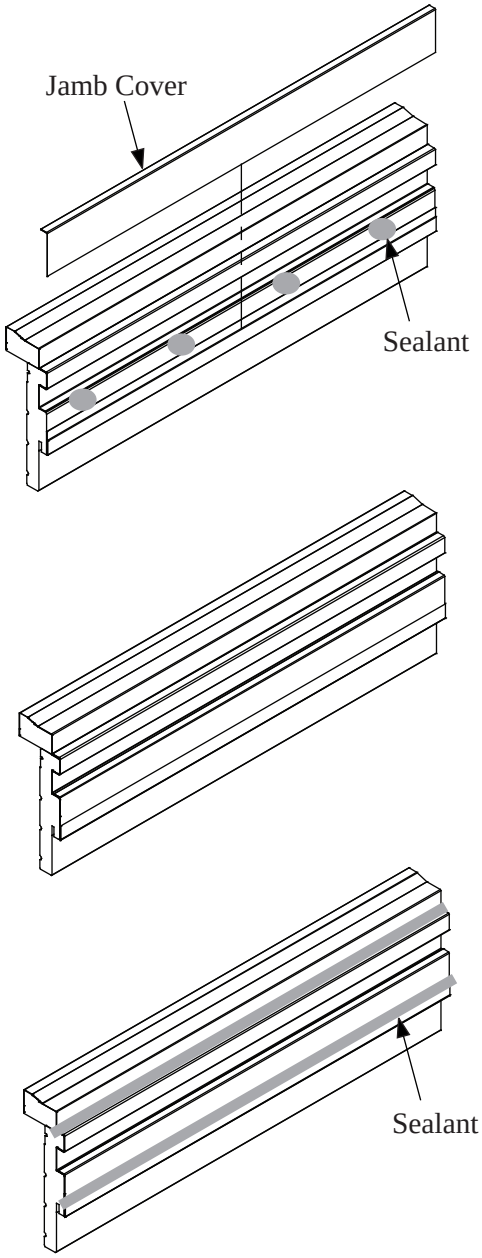
4. Install Outer Jamb Cover

Coil Cladding

THERMA-TRU DOORS

Jamb Section Cladding

3 Piece Jamb Cover for Units with Sliding Screens

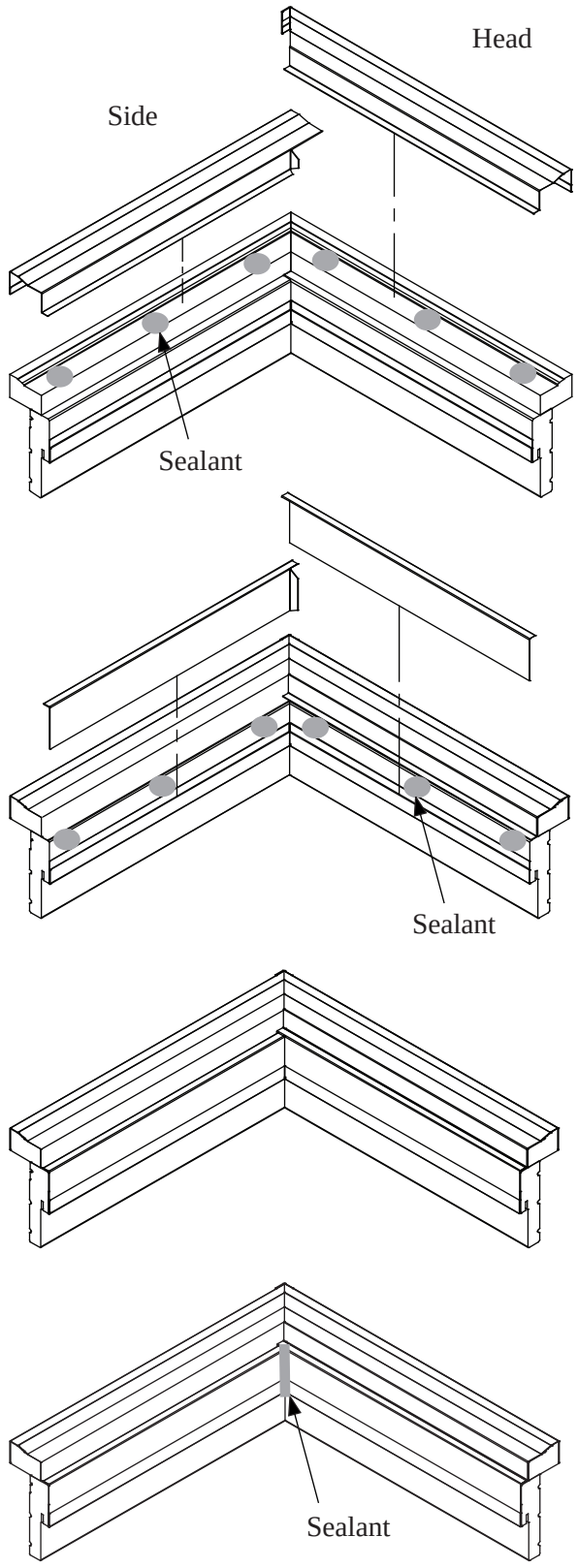


5. Install Jamb Cover. Tuck into Utility.

6. Seal along all seams.

Corner Cladding Details

2 Piece Jamb Cover for Units with Fixed Panels

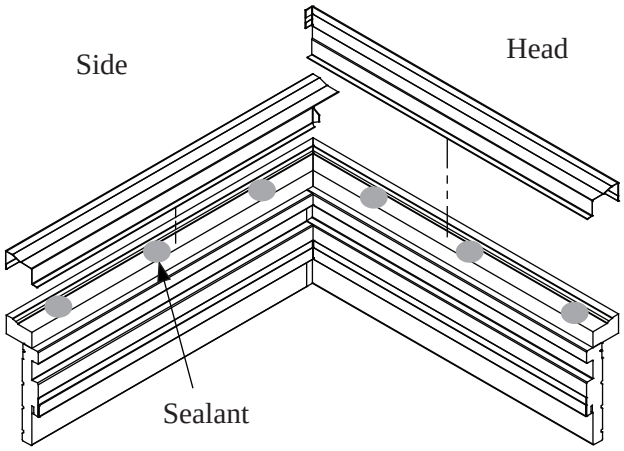


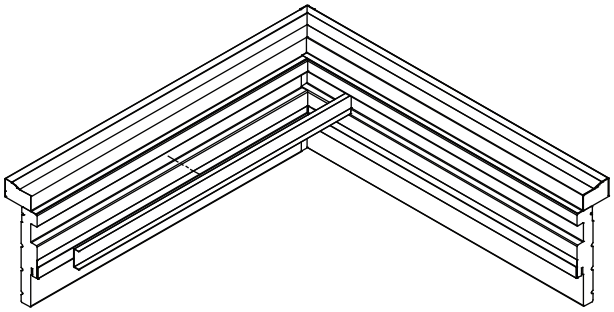
Coil Cladding

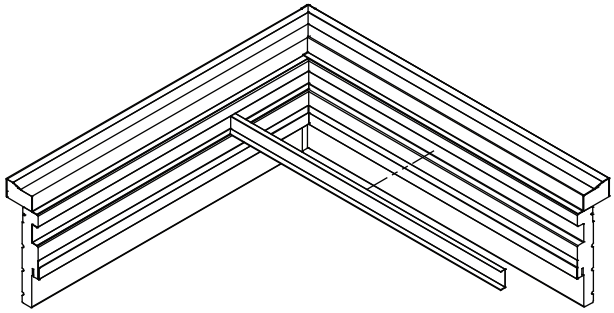
THERMA-TRU DOORS

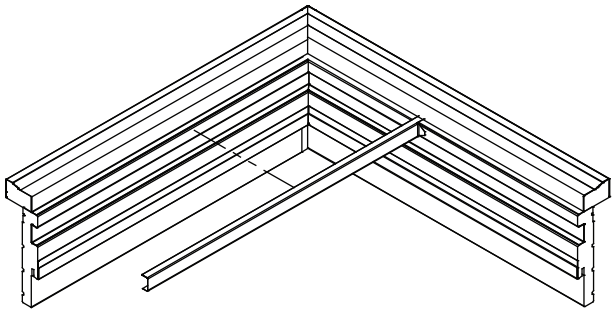
Corner Cladding Details

2 Piece Jamb Cover for Units with Sliding Screens



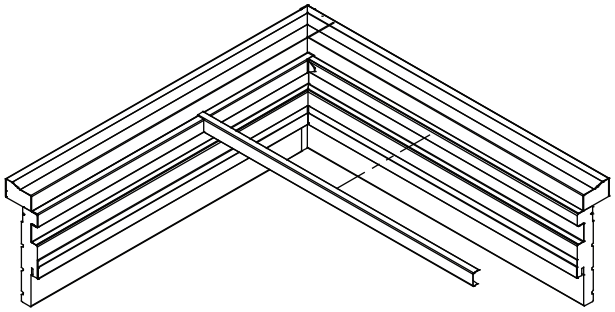


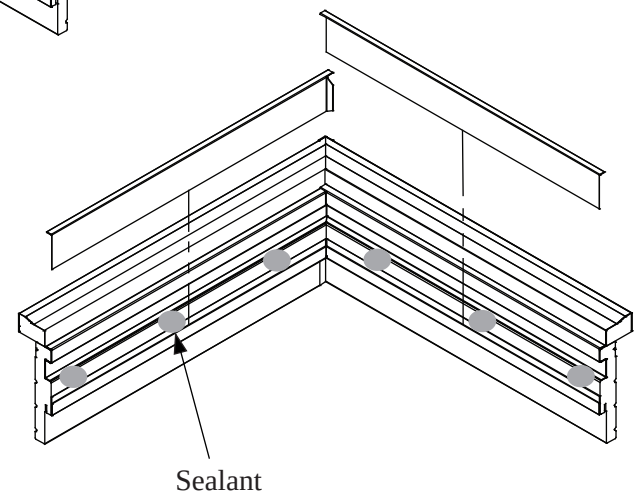


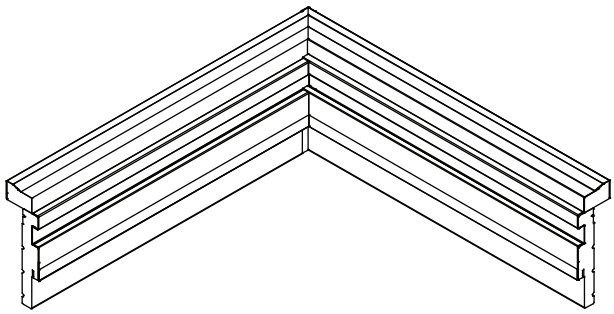


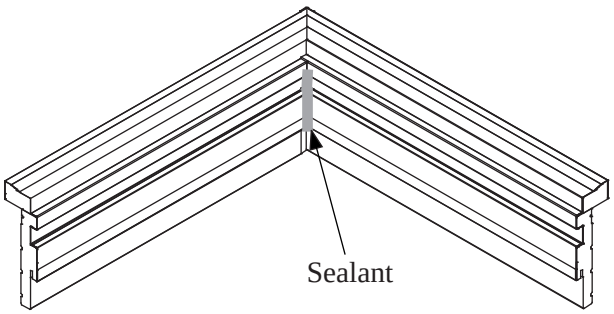
Corner Cladding Details

2 Piece Jamb Cover for Units with Sliding Screens







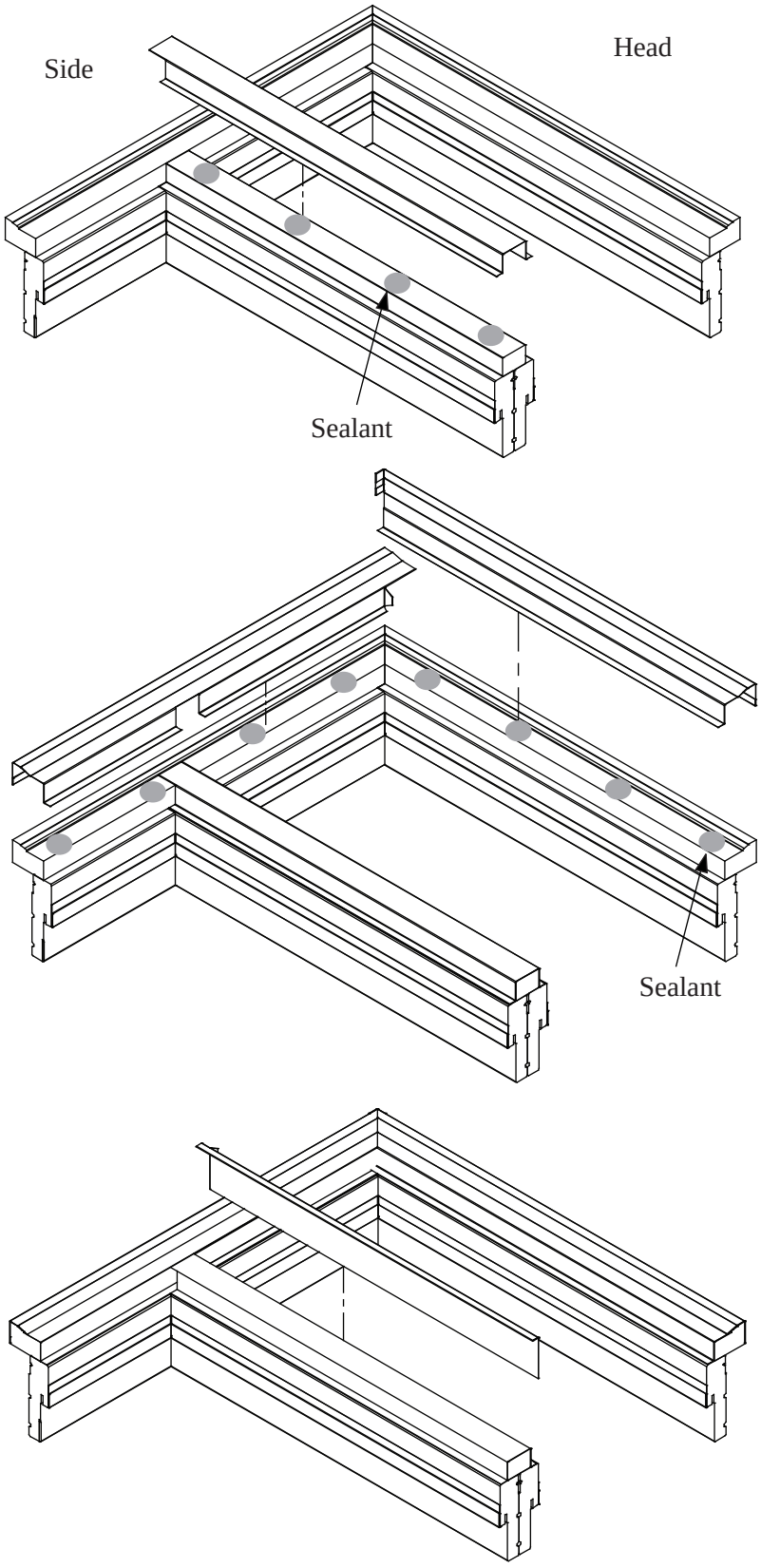


Coil Cladding

THERMA-TRU DOORS

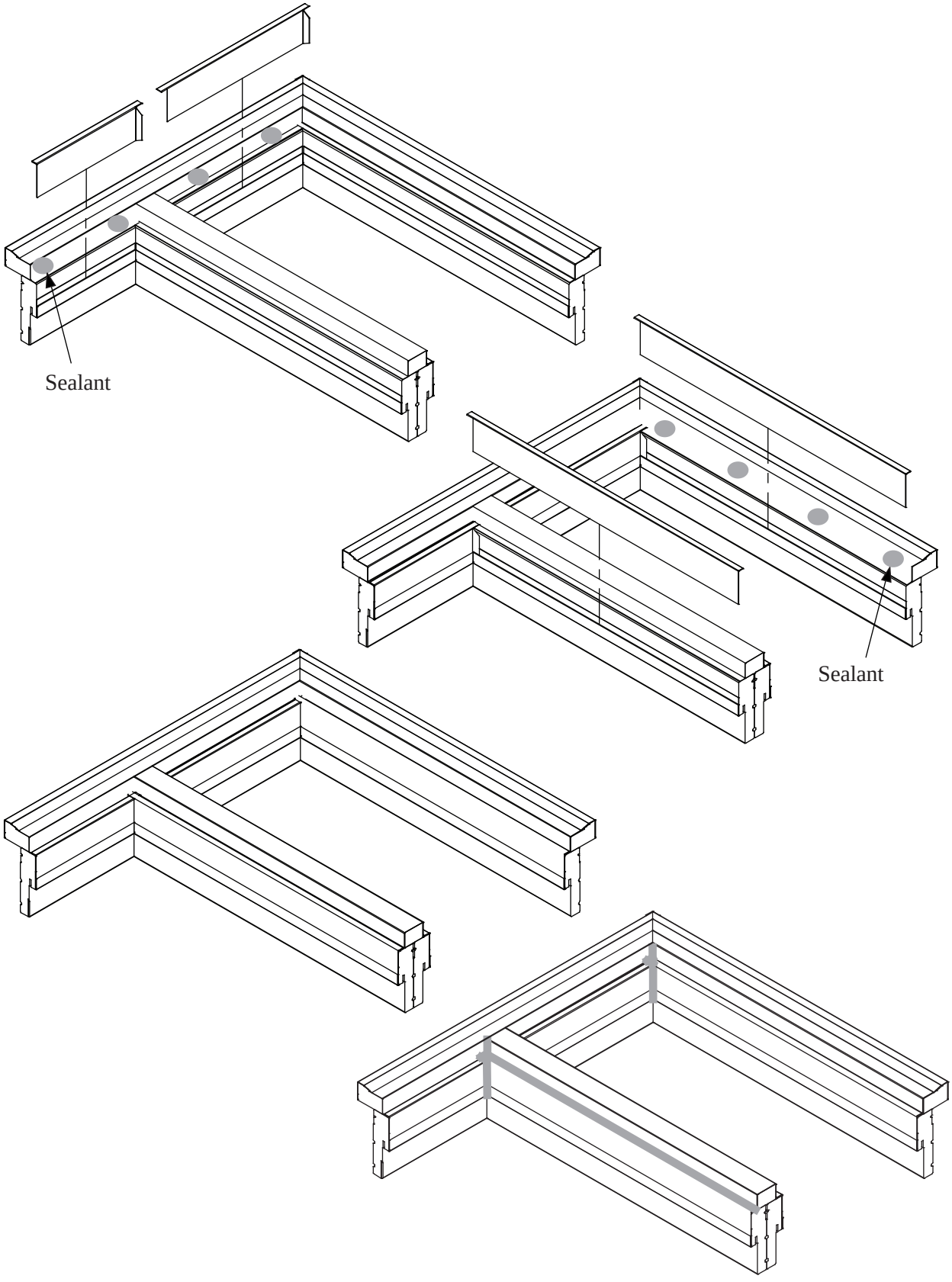
Corner Cladding Details

2 Piece Jamb Cover and Transom Using Jamb as Transom Sill



Corner Cladding Details

2 Piece Jamb Cover and Transom Using Jamb as Transom Sill

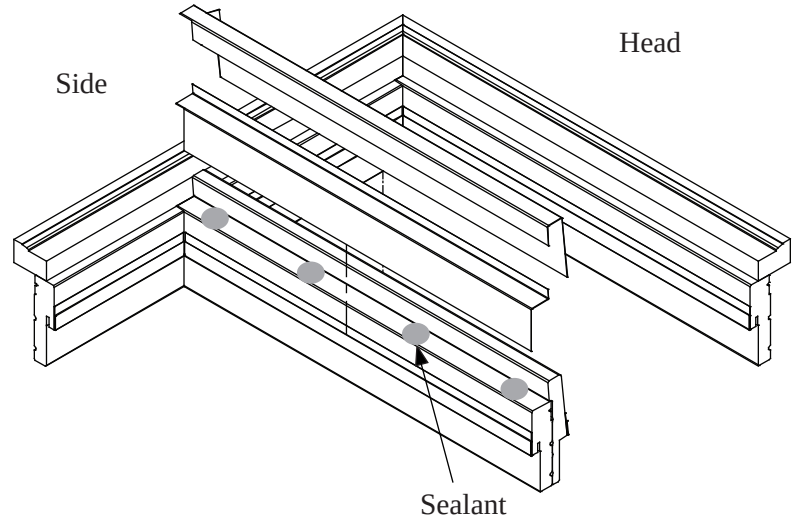


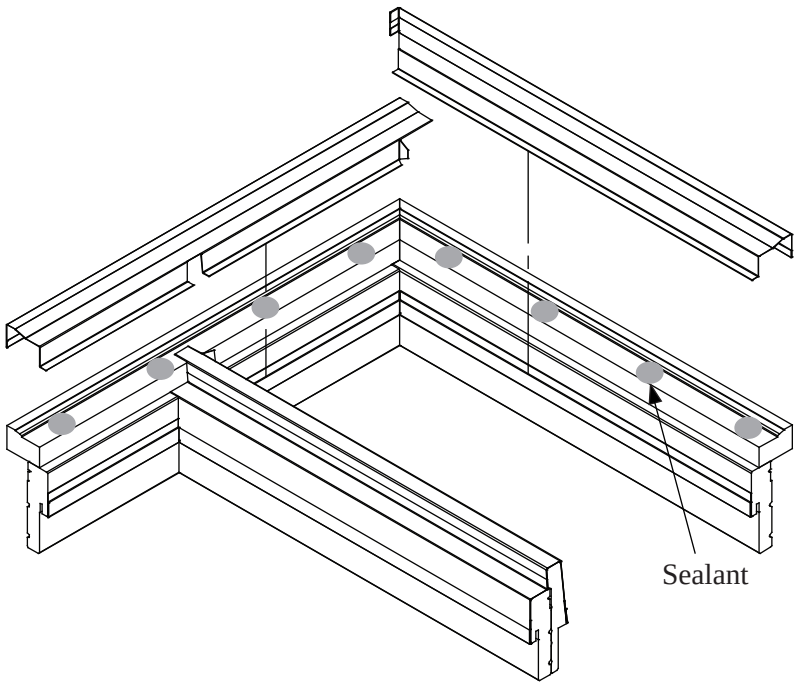
Coil Cladding

THERMA-TRU DOORS

Corner Cladding Details

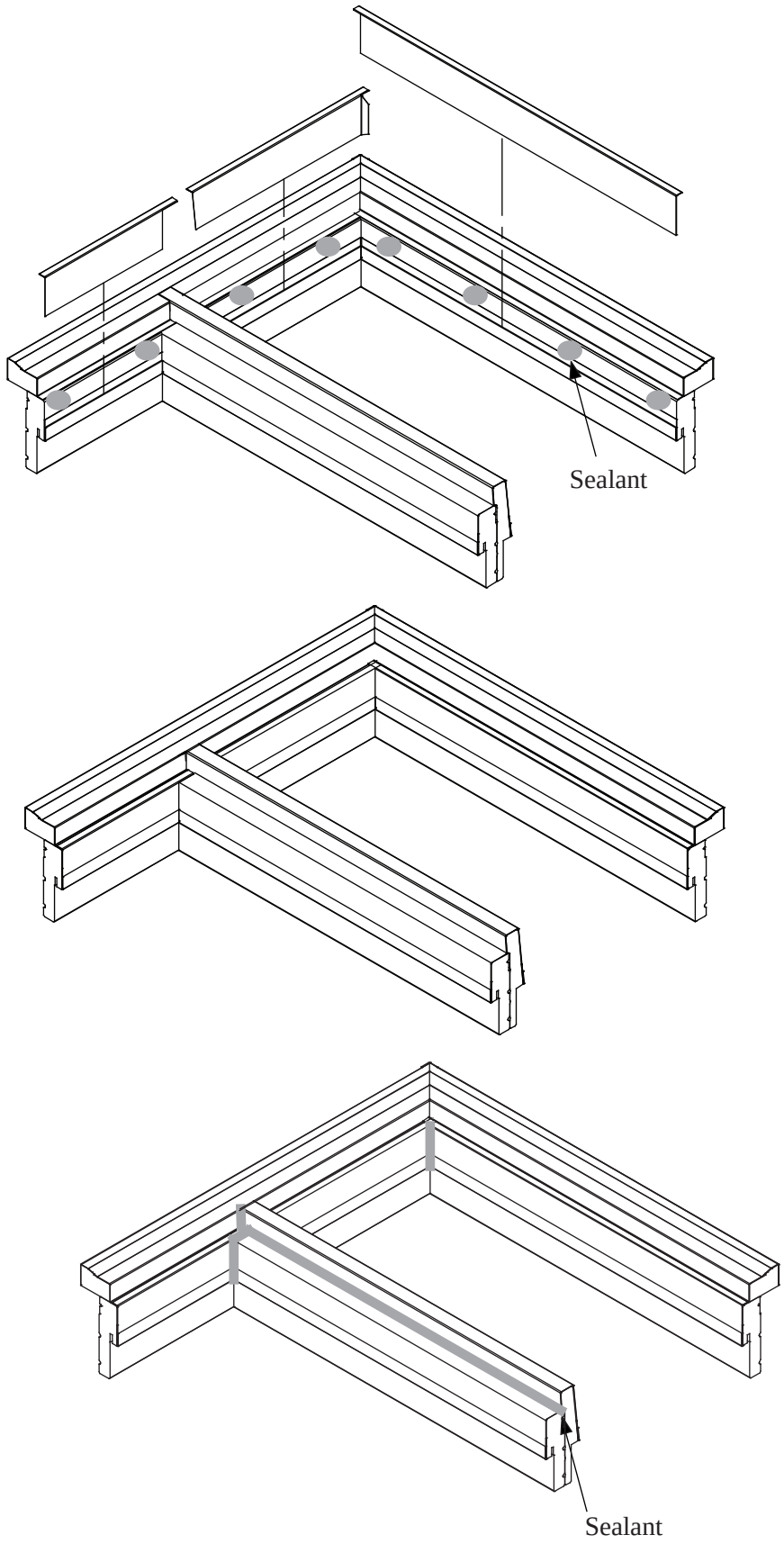
2 Piece Jamb Cover and Transom Using Sloped Transom Sill





Corner Cladding Details

2 Piece Jamb Cover and Transom Using Sloped Transom Sill

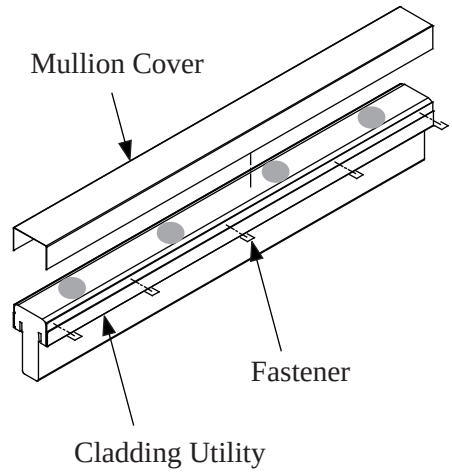


Coil Cladding

THERMA-TRU DOORS

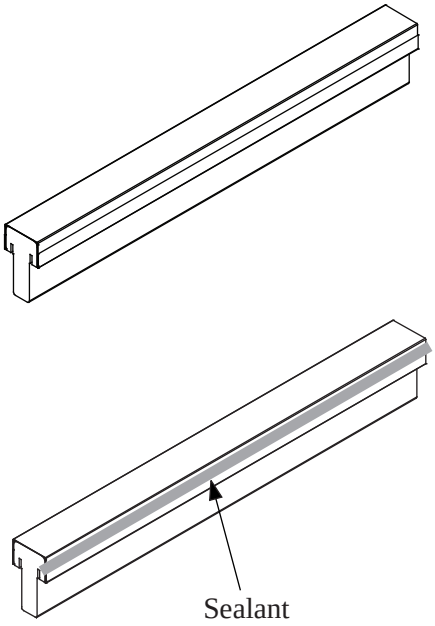
Mullion Section Cladding

Entry or Patio Mullion



1. Install Utility trim flush with jamb rabbet on both sides of mullion. Fasten Utility with 1/4” crown x 1/2” staples approximately every 12”.

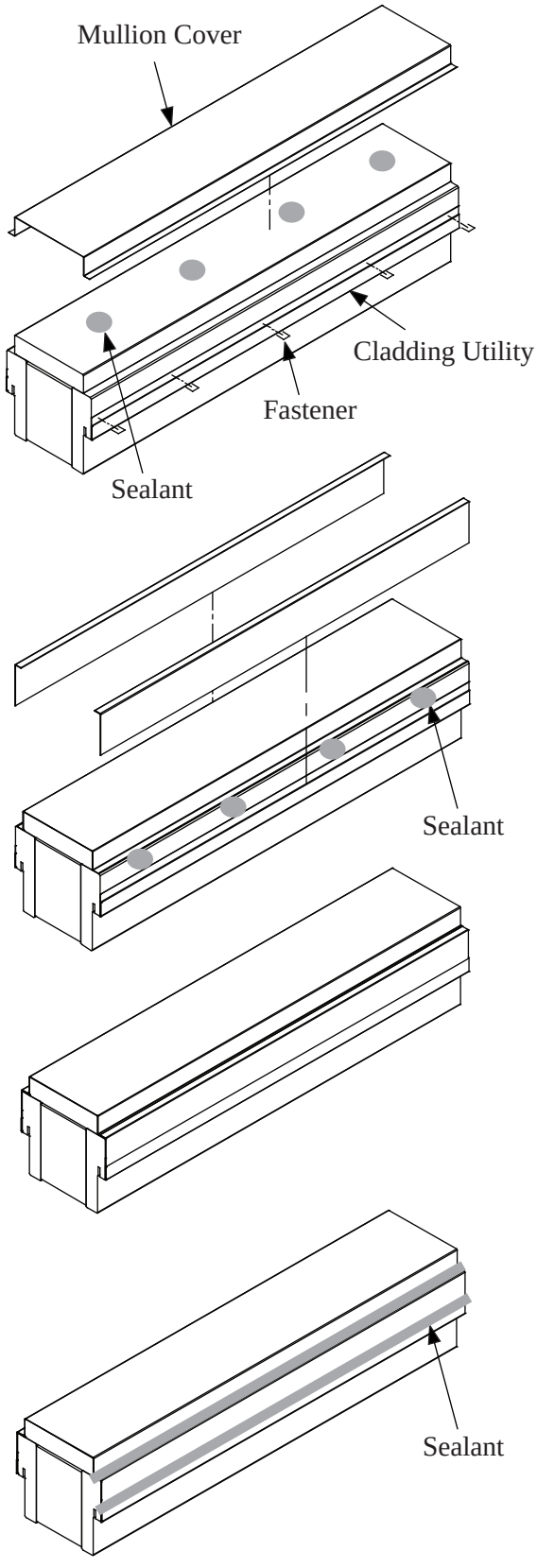
2. Apply dabs of sealant. Install Mullion Cover. Tuck into Utility.



3. Seal along all seams.

Mullion Section Cladding

Back to Back or Spread Mullion Mullion



1. Install Utility trim flush with jamb rabbet on both sides of mullion. Fasten Utility with 1/4” crown x 1/2” staples approximately every 12”.

2. Apply dabs of sealant. Install Mullion Cover. Tuck into Utility.

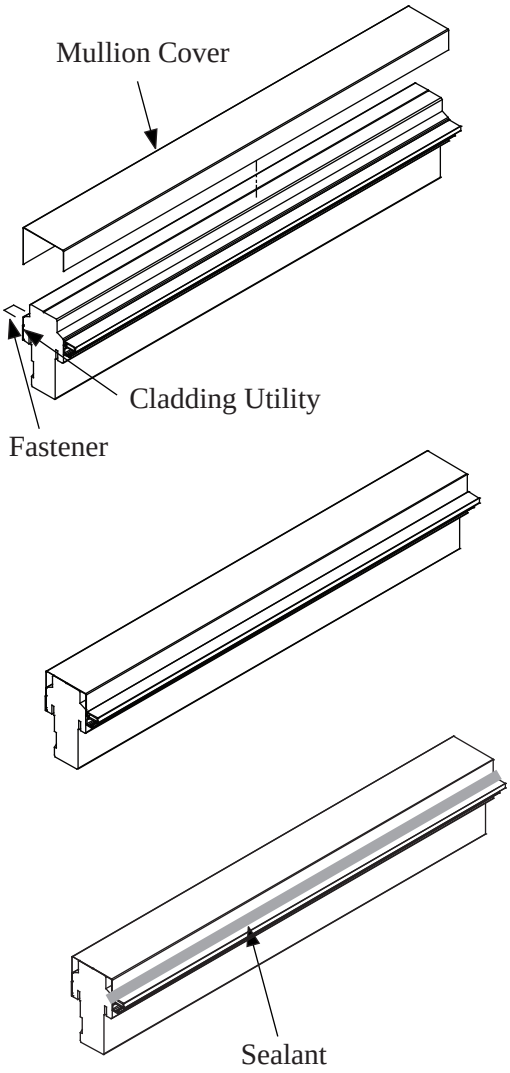
3. Apply dabs of sealant. Install Jamb Cover.

4. Seal along all seams.

Coil Cladding

THERMA-TRU DOORS

Mullion Section Cladding
Venting Sidelite Mullion

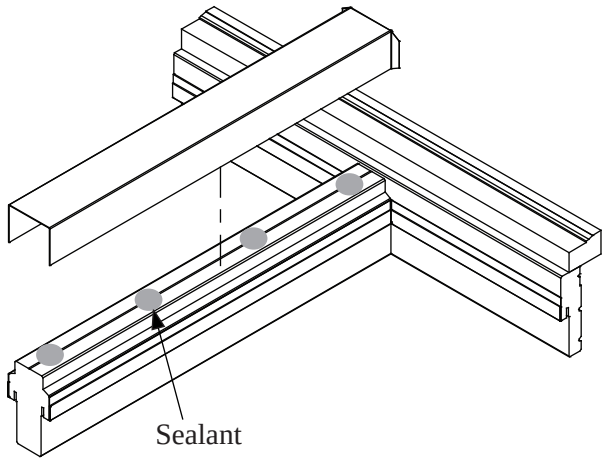


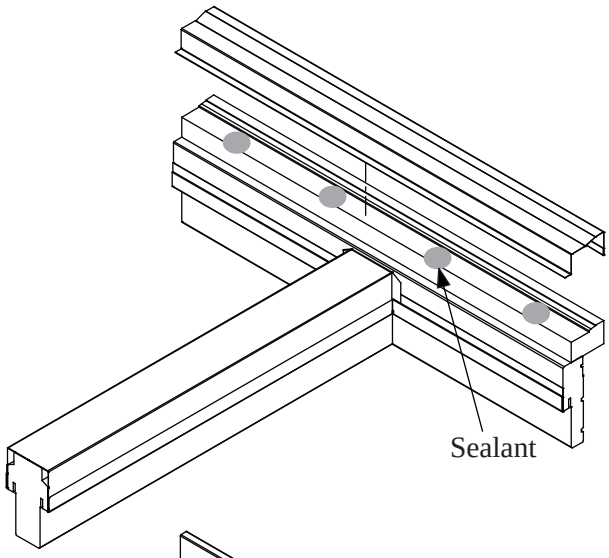
1. Install Utility trim flush with jamb rabbet on both sides of mullion. Fasten Utility with 1/4” crown x 1/2” staples approximately every 12”.

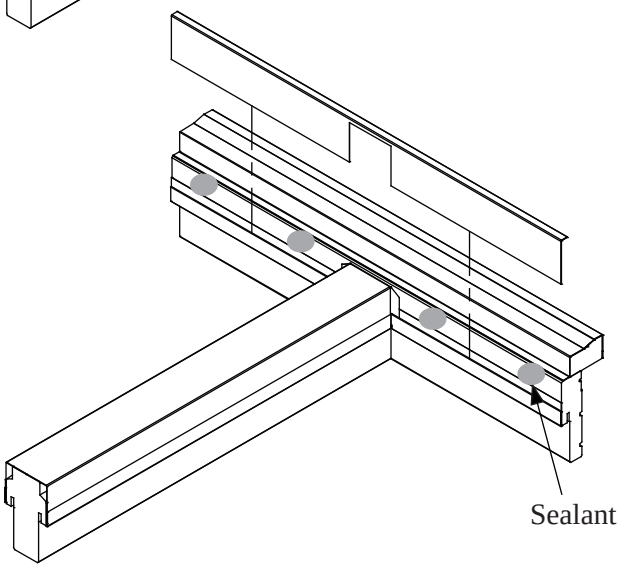
2. Install Mullion Cover. Tuck into Utility.

3. Seal along all seams.

Mullion Interface Cladding
Entry or Patio Mullion

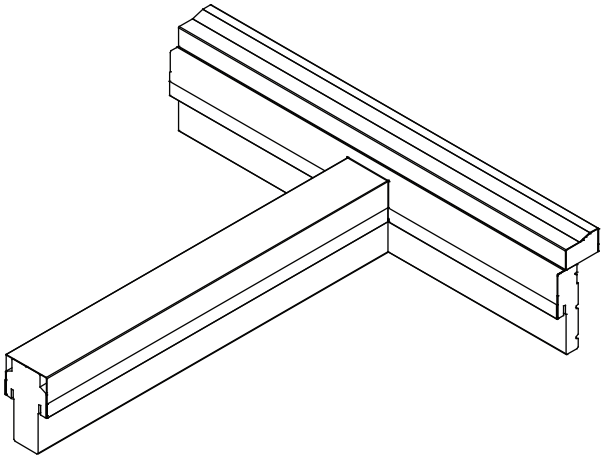


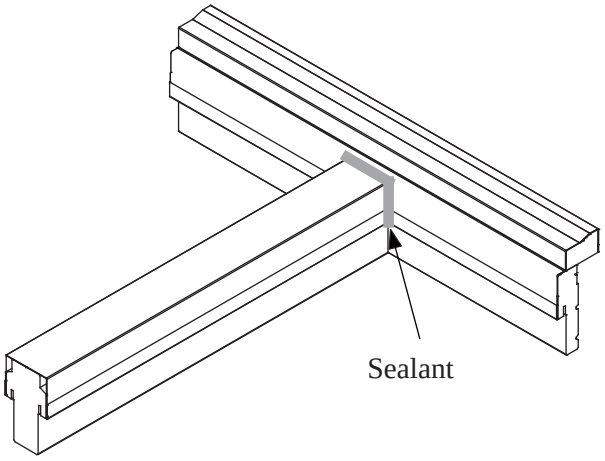




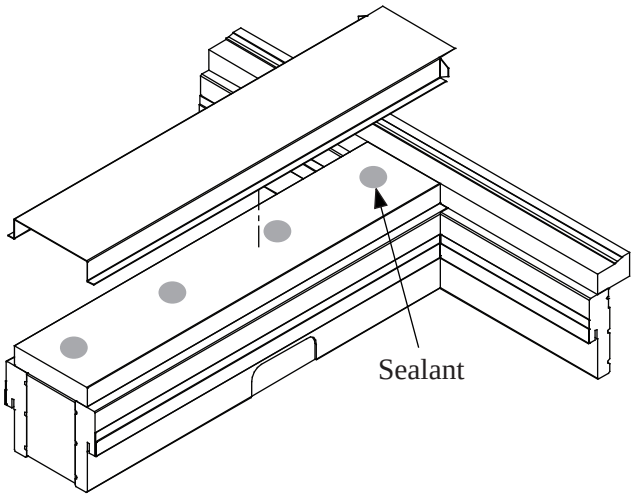
Coil Cladding

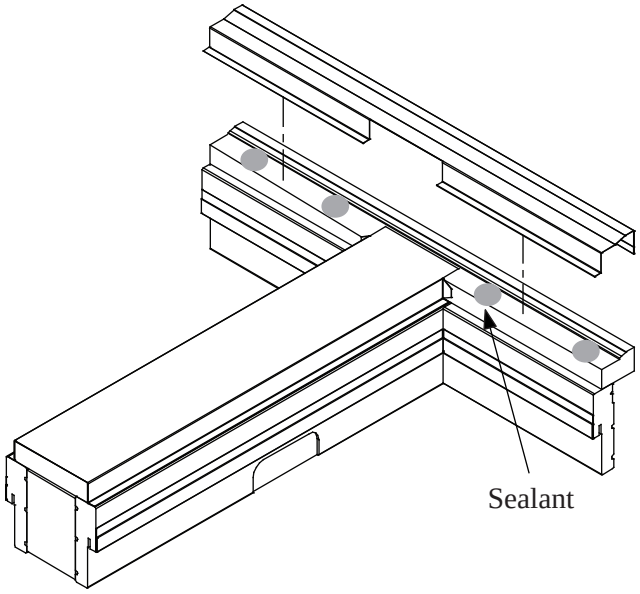
Mullion Interface Cladding
Entry or Patio Mullion

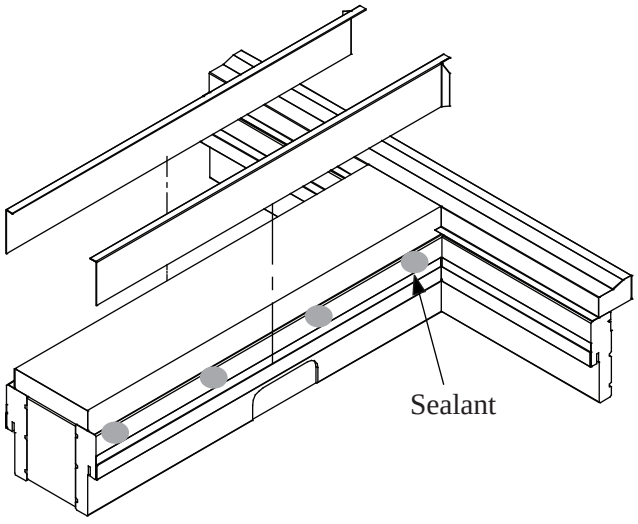




Mullion Interface Cladding
Back to Back or Spread Mullion





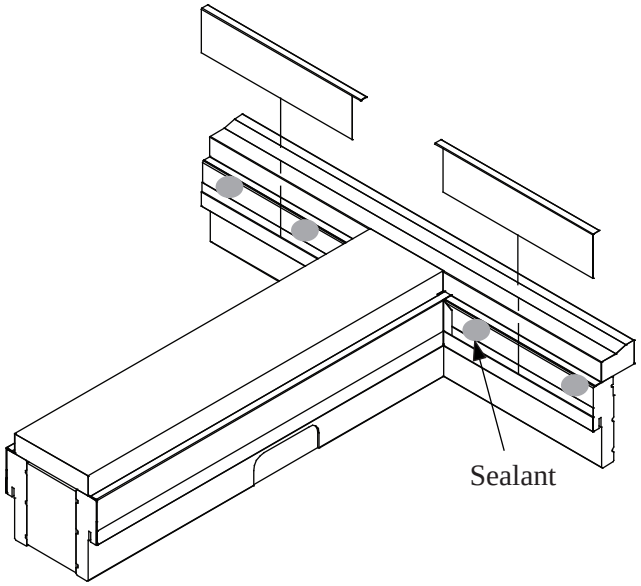


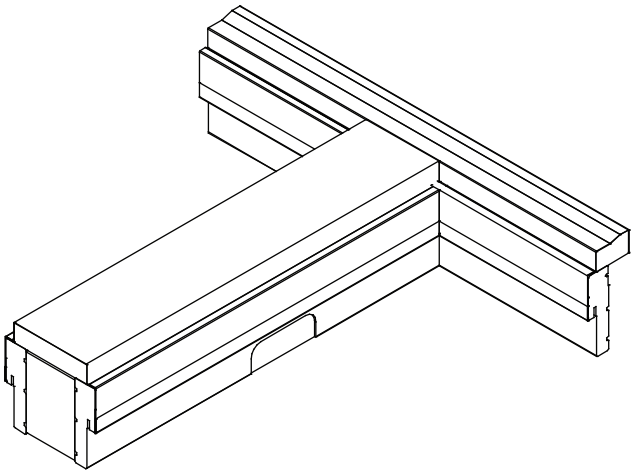
Coil Cladding

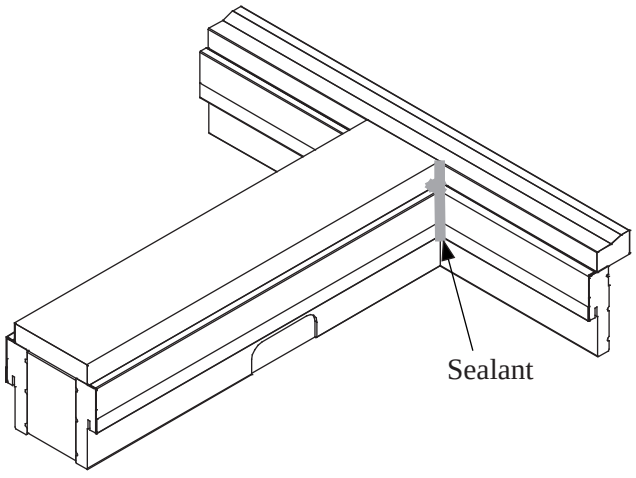
THERMA-TRU DOORS

Mullion Interface Cladding

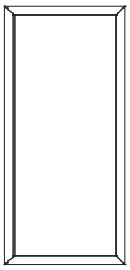
Back to Back or Spread Mullion

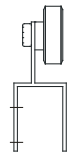




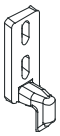


THERMA-TRU "Wide Profile" Screen Installation - Hinged Patio


Screen


Adapter


Track

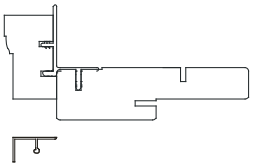

Latch


#4 x 1/2" pan head screw

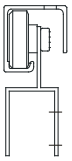

#10 x 1/2" pan head screw


#6 x 5/8" pan head screw

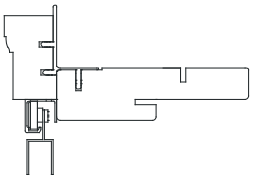
1 Remove existing screen track.



2 Insert wheels of top hung adapter into top hung track as shown.

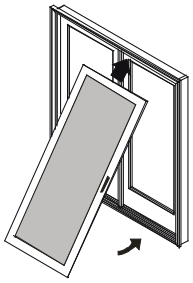


3 Position track up into screen channel. Drill 1/16" pilot holes thru holes in track into head jamb approximately 1/4" deep.



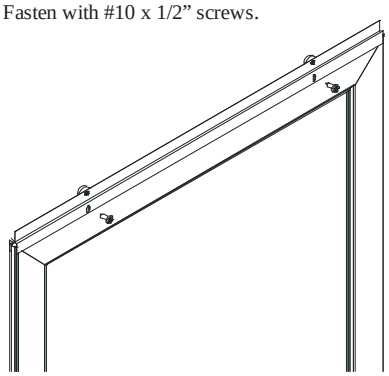
4 Fasten track to head jamb with #4 x 1/2" flat head screws.

5 Insert screen into adapter channel and rotate down engaging wheels in bottom of screen with track on sill.

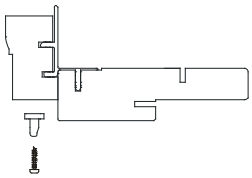


6 Align adapter with edge of screen.

7 Drill 1/8" holes thru hole locations in adapter into screen from interior of unit.
Fasten with #10 x 1/2" screws.



8 Close screen door and locate position of latch. Mark hole locations for latch. Drill 1/16" pilot holes into side jamb. Fasten with (2) #6 x 5/8" pan head screws.



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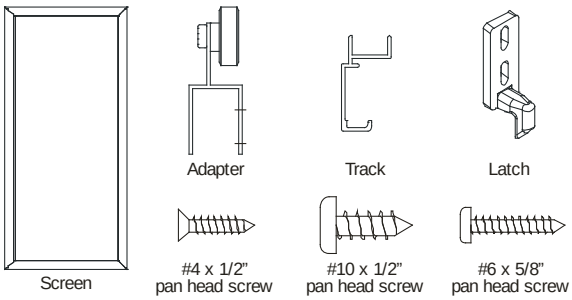
Part # THSINSTALL
4/1/05

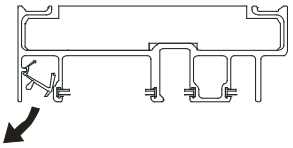
Screen Installation

THERMA-TRU DOORS

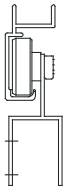
THERMA-TRU “Wide Profile” Screen Installation - Sliding Patio



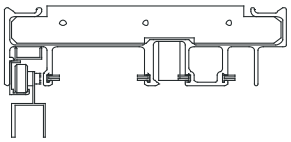
1 Remove existing screen track by rotating the back edge down as you pry it out.



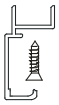
2 Insert wheels of top hung adapter into top hung track as shown.



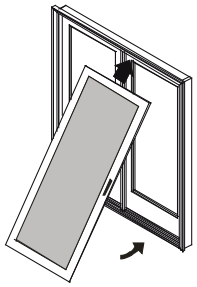
3 Position track up into screen channel. Drill 1/16” pilot holes or punch with an awl, thru holes in track into head jamb approximately 1/4” deep.



4 Fasten track to head jamb with #4 x 1/2” flat head screws.



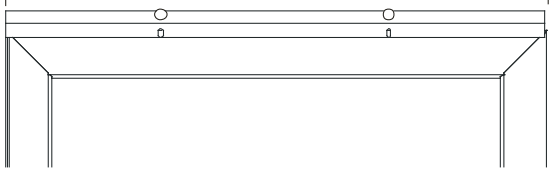
5 Insert screen into adapter channel and rotate down engaging wheels in bottom of screen with track on sill.



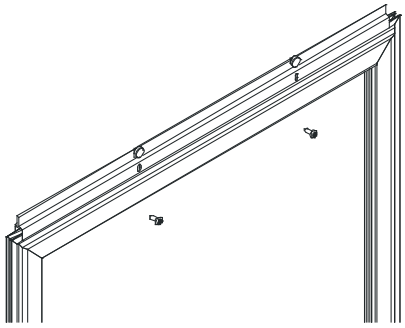
6 Align adapter with edge of screen.

Doubles/Triples: Align with edge OPPOSITE of handle side.

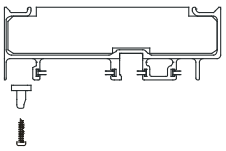
Quads: Align with edge on handle side.



7 Drill 1/8” holes thru hole locations in adapter into screen from exterior of unit.
Fasten with #10 x 1/2” screws.

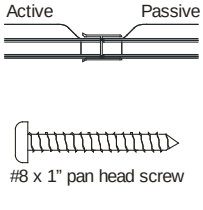


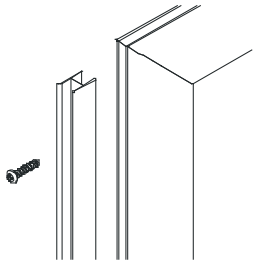
8 Close screen door and locate position of latch on side jamb. Mark hole locations for latch. Drill 1/16” pilot holes. Fasten with (2) #6 x 5/8” pan head screws.



9 **Quad Systems Only**

Position screen astragal on passive screen so it does not interfere with head and sill tracks. Pre-drill (4) equally spaced 1/8” pilot holes. Fasten astragal to screen with (4) #8 x 1” pan head screws.

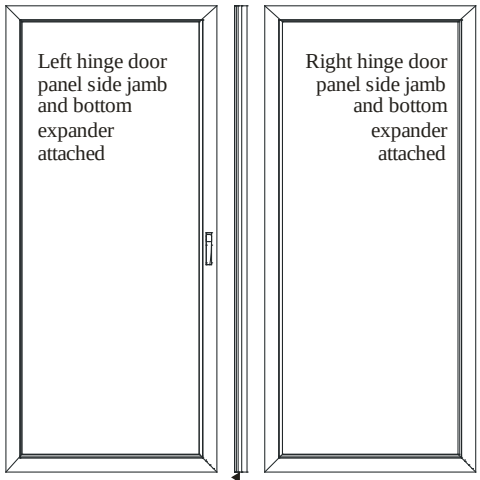




THERMA-TRU

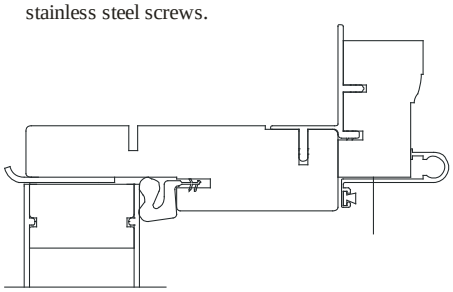
French Door Hinged Screen Installation

French Door Hinged Screen Materials Supplied

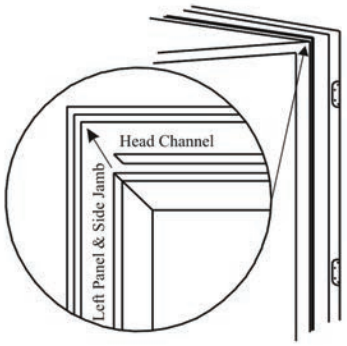


Head Channel
Door Handle Package
Spring Latch (2)
20 - 1" Stainless Steel Screws
4 - 3/4" Stainless Steel Screws

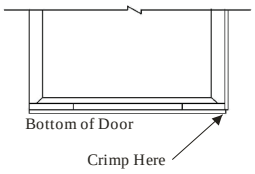
1 Place head channel at the top of the door opening on the exterior side, centering it between the right and left side jambs.
Using a 1/8" drill bit, pre-drill a hole in the head brickmould using the pre-punched holes in the aluminum channel as a guide.
Fasten head channel to head brickmould using #8 x 1" stainless steel screws.



2 Position the right or left door panel into the frame.
Be sure the side hinged channel aligns properly with the head jamb miter.
Using a 1/8" drill bit, pre-drill a hole into the side brickmould using the pre-punched hole in the aluminum channel as a guide.
Fasten side jamb channel to side brickmould using #8 x 1" stainless steel screws and check for proper alignment
Repeat for remaining door panel.



3 Trim the black rubber door sweep even with the adjustable bottom expander. Crimp the ends of the slot with pliers to prevent the sweep from sliding out.

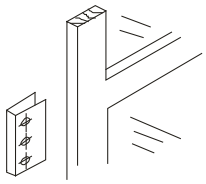


4 Install the handle hardware on the active door .

CAUTION: BE SURE TO POSITION THE SCREEN DOOR HANDLE SO THAT IT DOES NOT INTERFERE WITH THE OPERATION OF THE HANDLE SET ON THE PRIMARY DOOR.

At desired height, fold self-adhesive template to door.

Mark center of the three holes on both sides



Using a 5/16" drill bit, bore the three holes 1/2 way through on both sides.
Note: Ream out center hole by inserting drill and rotating with a slight wobbling action to clear hole and allow complete freedom of action for spindle.

SPINDLE MUST BE FREE.

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Part # DDSINSTALL 1/1/05

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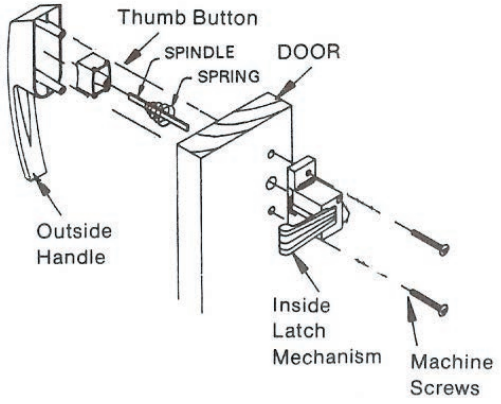
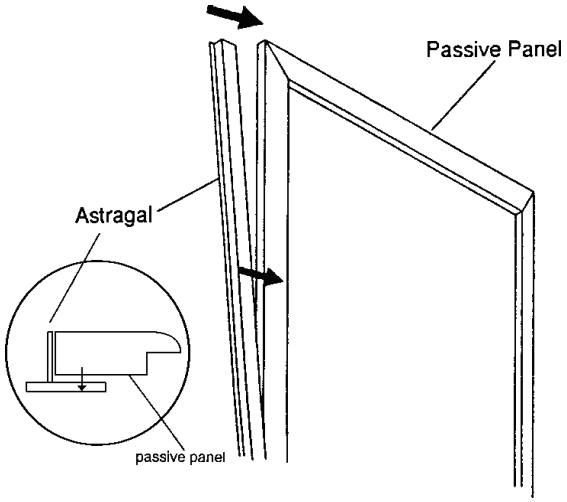
French Door Hinged Screen Installation

5 Assemble outside handle with button, spindle and spring. Push this assembly through installation holes from outside of door as shown.

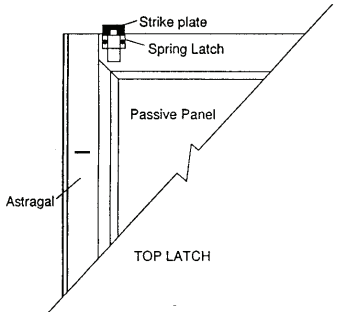
Depress button to extend spindle. Position latch mechanism over holes on inside of door, guiding spindle into rectangular slot in center of mechanism. Insert (2) machine screws into threaded sleeves and screw each down to snug position.



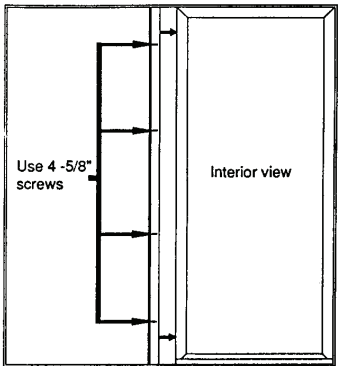
6 Place the astragal on the passive panel (See Inset) allowing an 1/8” gap. Top of astragal should be even with top of door. Fasten through the center of the slot. Close active panel and adjust astragal for even gap.



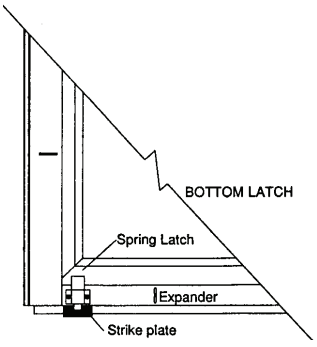
7 Install the spring latches to the passive door at the head using the spacer and screws provided. Base of the latch should be 1/4” down from the head channel.

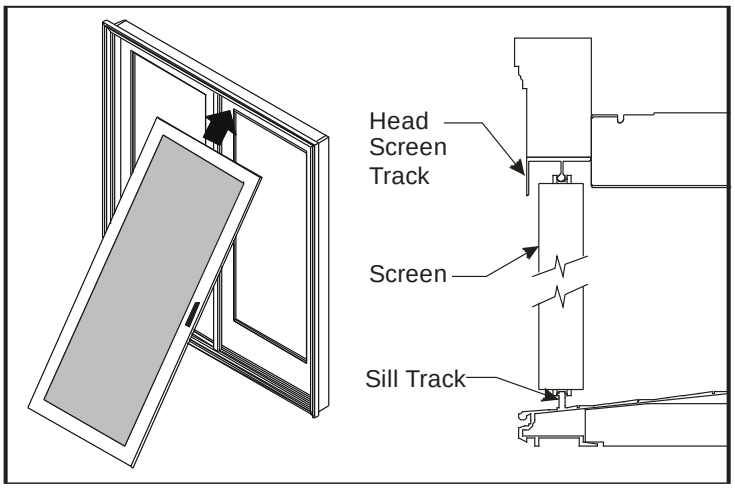


8 Close both panels and recheck for proper clearance between astragal and active panel (1/8”). Check for proper latch engagement. Secure the astragal to the passive panel by pre-drilling 4 holes with a 1/8” drill bit and using 4-3/4” screws. Adjust the bottom expander to the desired position.



9 Position the remaining spring latch to expander and the strike plate (lip to the outside) to sill. Once proper location has been determined so that the door is aligned with frame, fasten with enclosed screws.





Install Screen Door

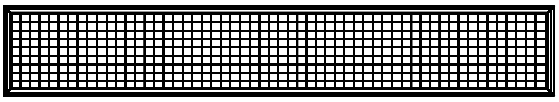
Install screen door by inserting top guide wheels on head track.

Lift bottom wheels up and engage with lower sill track.

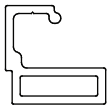
Screen Installation

THERMA-TRU DOORS

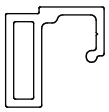
Venting Sidelite Screen Materials Supplied



Screen



Side Screen tracks (2)



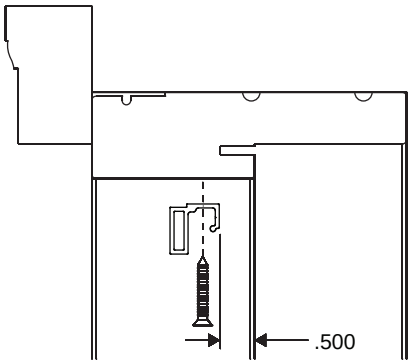
Top Screen Track

#6 x 3/4" PFH Screws

1 Install Top Screen Track

Remove weatherstrip prior to installation.

From the interior, position top screen track 1/2" back from the head jamb stop, making sure to center between the side jamb and the mullion.



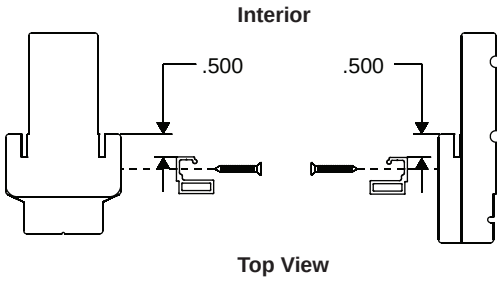
Using a 3/32" drill bit, drill two holes approximately 3/4" deep into the head jamb using the pre-punched holes in the top screen track as a guide.

Fasten top screen track to head jamb using two #6 x 3/4" screws.

2 Install Side Screen Tracks

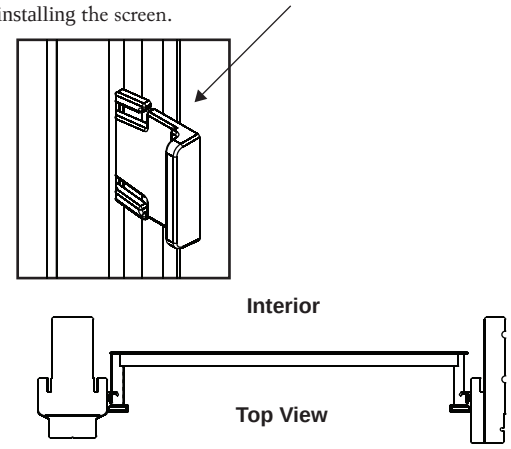
Assemble the left and right screen tracks following the same steps as installing the head screen track, positioning as shown below.

Make sure to position flush with the top screen track, and that both sides are completely straight.



3 Install Screen

Note: Make sure that all thumb clips are pulled in before installing the screen.



Starting at the bottom, insert the screen then roll in towards the top. Gently yet firmly press screen into place. Push the thumb clips back in until they snap back into the screen track.

Re-insert weatherstrip.

Door Surround Installation Instructions

Crosshead & Pilasters

ITEMS YOU WILL NEED:

- Tape measure
- Saw
- Framing square
- Hammer
- Putty knife
- Screw gun
- 1 ¾" exterior grade screws or nails*
- Caulk gun
- 2' or 6' level
- Loctite® PL Premium® Adhesive**
- Polyurethane compatible filler to patch holes
- Polyurethane trim board or PVC to be used as installation strips

* Exterior facade may affect length of fasteners needed.
** Locite® PL Premium® is owned by Henkel Corporation.

RECOMENDATION:

It is recommended that you install the Door Surround pre-finished with an exterior grade acrylic latex paint. If installing unfinished, coordinate with the paint contractor and ensure that they are using the correct type of paint. Finish all (surfaces of Polyurethane) exposed to weather within 90 days. And always be sure you have plenty of fresh air and adequate ventilation, when painting or staining.

Preparation of the Opening

Ensure opening is properly flashed and sealed prior to installing door surround (which includes the crosshead and pilasters) to help prevent water infiltration

Installation of Trim Strips

A) Install the trim strips on the sides of the door

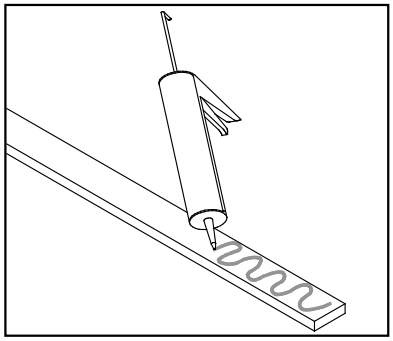
1. Measure the height of the door from the top of the door down to the landing.

   Note: Be sure to include any existing trim such as brick mold in your measurement.

2. Cut the polyurethane trim board or PVC based on measurements taken above.

3. Install the trim strips by placing a ¼" bead of PL Premium on one side of the trim strip and press firmly into position on the house.

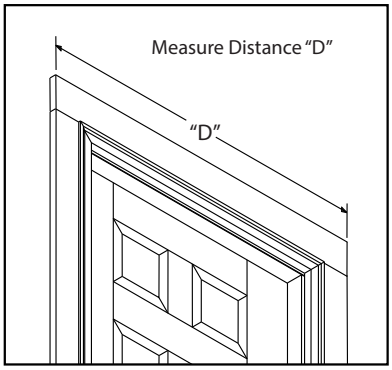
   Note: if using polyurethane trim board as install strips, apply PL Premium to unfinished side of the board.



4. Screw or nail the trim strips in place using 1 ¾" exterior grade screws or nails, this will ensure the strips are held in place while the glue cures. Fasten with 2 screws at top, middle and bottom of the installation strips.

B) Install the trim strip on the top of door.

1. Measure the distance from the outside of the left installation strip and the outside of the right installation strip



2. Then cut the crosshead installation strip to size and apply a ¼" bead of PL Premium and press firmly into position.

3. Secure the crosshead installation strip to the house with exterior grade fasteners, the same used on the pilaster installation strips. (Fasten with 2 screws at top, middle and bottom of the installation strip). This will ensure the strips are held in place while the glue cures.

   Note: Follow the guidelines set forth by the exterior facade manufacturer to finish facade (caulk, J-Channel, etc), next to the door surround and trim board to prevent water infiltration and create a beautiful finished exterior.

   Note: If vinyl facade, install J-Channel around the installation strips to allow for adequate water mitigation. 5/8" J- Channel is recommended for the install.

C) Your opening preparation is complete

Door Surround Installation

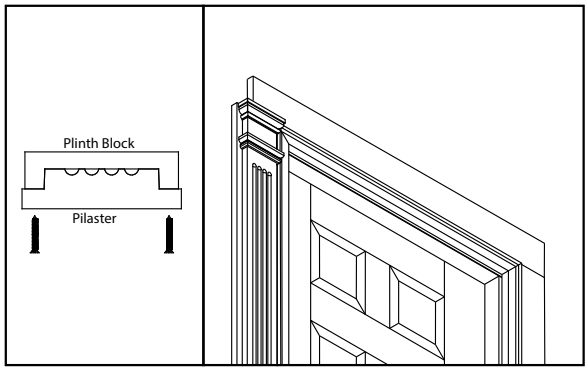
THERMA-TRU® DOORS

Installation of Pilasters

First measure the distance from the landing floor to the top of the brickmould.

1. Once you have your measurement mark the height on the pilasters and cut the excess off from the bottom of the pilaster.
   Note: it is critical to ensure that pilasters are level at the top of the brickmould.

1a. Attach the plinth block to the pilaster. Apply PL Premium adhesive to the back of the plinth block, position block on pilaster and attach with exterior grade screws through the back of the pillaster.



2. Begin installing the Pilasters.

3. To do this you will first need to apply a ¼" bead of PL Premium adhesive to the back of the Pilaster.

4. Now position the Pilaster next to the door and firmly press it onto the installation strips and check for level.

5. Finally fasten the Pilaster to installation strip using exterior grade screws ensuring that you countersink the screws into the Pilaster approximately 1/8", similar to screwing into drywall.

   Note: It is recommended that you use a minimum of 6 fasteners on each pilaster, two at the top, two in the middle and two at the bottom. Carefully and slowly screw into the pilaster ¾" from the right or left edge.

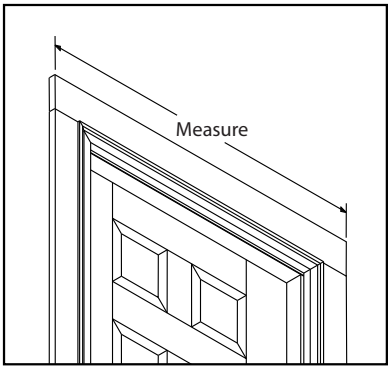
Installation of Crosshead

1. If your crosshead needs to be cut, follow the instructions below, otherwise skip to step 2.

1a. Select an End Cap width that coordinates with Pilaster our Moulding on either side of the door.

1b. For trimmable crossheads that need to be shortened to fit your application, take the desired breast board width of the crosshead and subtract the measurement of the back surface width of both end caps that would be installed against the facade. For example, if you need the crosshead and attached end caps to be 52" long and the back surface of the end caps are 3", take 52 and subtract 6 (3"x2) = 48" long.

1c. Next, measure from the right end of the crosshead dimension, i.e. Mark the measurement using a pencil and framing square.



1d. Cut the crosshead at the pencil marks.

1f. Place the crosshead pieces and end caps on top of the entrance opening, ensuring the outer edge of the crosshead aligns with the outer edge of the entrance opening or pilasters and check for level.

1g. Apply a ¼” bead of PL premium to the side of the end of the crosshead and the backside perimeter of the rabbeted area of the end cap. Next overlap the left end cap rabbeted end over the cross-head. Use fasteners to secure the end cap to the crosshead. Slowly countersink the screws into the keystone approximately 1/8", similar to screwing into drywall. Repeat with the other end cap.

Note: For aesthetic purposes, it is recommended to toe nail end caps to crosshead

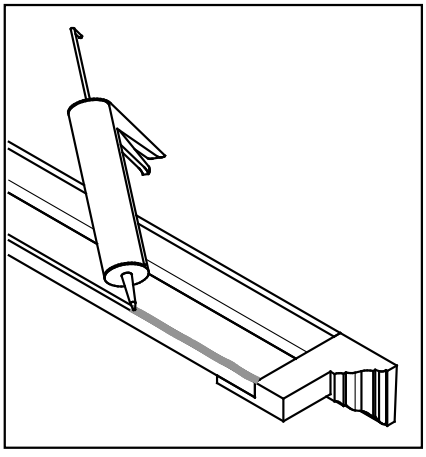
1h. If fabricating a keystone to the crosshead follow the instructions below, otherwise move to step 2. Overlay the keystone onto the crosshead and center it. Fasten the keystone to the crosshead by placing ¼" bead of PL Premium on the back side of the keystone and then use fasteners to secure the keystone in place. Slowly countersink the screws into the keystone approximately 1/8", similar to screwing into drywall.

Note: For aesthetic purposes, it is recommended to toe nail keystone to crosshead

Note: If your exterior facade is vinyl, it is recommended that you install the crosshead so the vinyl siding sits in the J-channel which is located directly behind the top of the crosshead.

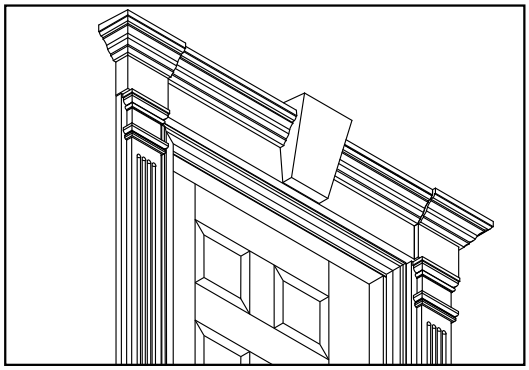
2. Now you are ready to install the crosshead

2a. Apply a bead of PL premium to the backside of the crosshead and end caps. Next you will firmly press the crosshead into position on the installation strips ensuring that the crosshead is properly centered and level above the door and pilasters.



2b. Next fasten the crosshead to the house. It is recommended that you use a minimum of 6 screws. Starting on the left end of the crosshead, Place the first screw ¾" to 1" from the bottom of the flat. Place the second screw ½" from the top of the flat, align with the first screw. Repeat this process in the middle and the right end of the crosshead.

2c. When fastening the crosshead using exterior grade screws, ensure that you slowly countersink the screws into the crosshead approximately 1/8", similar to screwing into drywall.



Finishing the Door Surround

1. Now you are ready to fill the holes in the pilasters and crosshead (and Keystone, if applicable) where the fasteners were placed.

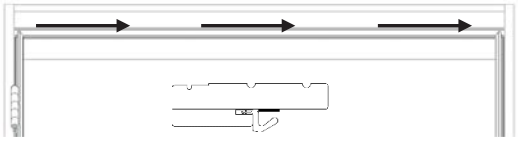
Note: It is important to use exterior grade filler. Once applied allow to dry before sanding.

2. Once you have sanded the filler you can now touch up with paint or coordinate the painting with the paint contractor.

APPLY CATEGORY-G EDGE SEAL (FOR 20 AND 90 MINUTE FIRE DOOR)

1 HEAD JAMB

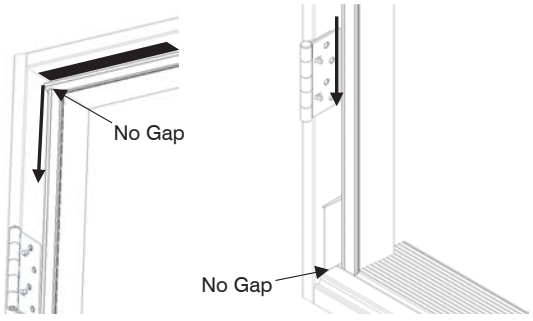
Measure the width of the head jamb. Cut a piece of edge seal of that length with a utility knife. Peel the end of the edge seal to reveal adhesive. Do not fully separate seal piece from barrier, as this could make the seal difficult to handle.



Pull back weather strip and begin placing edge seal across the head jamb, moving from one corner to the other corner. Continue to remove the adhesive barrier as you place the seal piece between the weather strip and jamb. Make sure not to round the edge seal down the side jambs.

2 HINGE JAMB

Measure the height of the hinge jamb opening and cut another edge seal piece. Begin placing the edge seal behind the weather strip from the head jamb to the sill like was done across the head jamb. If there is a corner pad, start from the bottom of the corner pad instead of the head jamb. Do not fold the edge seal onto the sill but leave as small of a gap as possible between the end of the edge seal and sill.



3 LOCK JAMB

Measure the distance from the head jamb to the top-most lock strike in the lock side jamb. Cut another piece of edge seal and place it behind the weather strip along the lock jamb until you reach the topmost lock strike.

Measure a new piece after the strike until the next strike or bottom of the door. Cut and place another edge seal in this section, sticking it from top to bottom. Continue to measure, cut, and place new pieces until edge seal reaches the sill with minimal gap, as was done on the hinge side.

Note: Refer to Fire Door listing reports for additional information.

SAME-DAY® STAIN

Finishing Instructions

Specially formulated for Therma-Tru® fiberglass doors, and approved Therma-Tru® composite materials, this kit contains everything you need to create the authentic look of real wood, including:

- (1) Foam Brush for Stain
- (1) Pair of Gloves
- (1) 3" Natural Brush for Stain
- (1) 2" Synthetic Brush for Topcoat
- (1) Staining Rag
- (2) Cleaning Rags
- (1) 4 oz. Bottle of Mineral Spirits
- (1) 16 oz. Can of Stain
- (1) 20 oz. Can of Topcoat
- (2) Stir Sticks
- (2) Fiberglass Test Samples
- Step-by-Step Instructions

Para obtener instrucciones en español, visite www.samedaystain.com.
Pour obtenir des instructions en français, veuillez visiter le site www.samedaystain.com.

To watch the video of our step-by-step instructions, visit www.samedaystain.com.
*Includes everything needed to stain a double door system, a single door with two sidelites or approximately 50 sq. ft. of approved Therma-Tru composite materials. Actual coverage may vary based on product selected, application method and desired appearance.

READ CAREFULLY BEFORE STAINING.

Before You Start

DO:
- Apply stain when temperatures are between 50° and 90°F and relative humidity is below 80%. These are optimal conditions for staining.
- Apply stain to all exposed edges and ends of your fiberglass Door, and approved Therma-Tru composite materials. All wood surfaces exposed to weather should be finished within two weeks of exposure.

DO NOT:
- Apply stain or topcoat while dew is present.
- Apply stain in direct sunlight.
- Sand stainable polyurethane door surrounds

STEP 1: SURFACE PREPARATION

Prior to staining, be sure to clean and prepare surfaces.

For Doors: Use a cleaning rag dampened with mineral spirits to wipe the entire surface, removing all contaminants.

For Approved Therma-Tru Composite Materials: polish out any scratches with a very fine Scotch Brite pad and clean with mild detergent and water.

Tip: For approved Therma-Tru composite materials, compressed air can be used to blow dust off of deep grooves.

Refer to troubleshooting on the back of these instructions to repair any scratches, if necessary.

ADDITIONAL PREPARATION FOR THERMA-TRU® FIBERGLASS DOORS
Skip to Step 2 for other products.
It is recommended that you clean the glass of any debris before staining, if applicable mask off any glass and hardware.

Tip: The weatherstrip may be removed from the jambs by gently pulling it out.
Re-insert the weatherstrip by pushing it in after the door is completely finished and dry.

STEPS FOR CLEANING EXCESS SEALANT ON GLASS
1. Spray the area with a standard glass cleaner.
2. Scrape off the excess sealant with a new razor scraper, holding it at a 45° angle. Be careful not to scratch the glass.
3. Wipe the area with a clean, dry rag.

Tip: Check for gaps between the glass frame and glass. Refer to Troubleshooting Before Staining section on the back of these instructions for directions on how to fill gaps before staining, if necessary.

STEP 2: COLOR TEST AND APPLY STAIN

Stir the stain well with a stir stick. Improperly mixed stain will not dry correctly.

COLOR TEST
Practice staining prior to applying stain directly to your fiberglass doors, or approved Therma-Tru composite materials.

Fiberglass Door: Use the fiberglass test sample that best matches your door to practice applying the stain.
Set the remaining fiberglass test sample aside to be used later to test for dryness.

Approved Therma-Tru Composite Materials:
If the product can be trimmed, practice applying stain on a scrap piece.
If the product cannot be trimmed, practice applying stain on a hidden area of the product.

Tip: Should you want to start over, the stain on your color test can be removed with mineral spirits and reapplied until you reach your desired color.

APPLY THE STAIN
Using the staining rag or foam brush, work the stain into the surface in a circular or cross-grain motion.

Tip: For best results, apply the stain to one section of the door at a time as indicated:
A. Glass frame, if applicable.
B. Deep grooves in door panels, using the tip of the foam brush.
C. Interior panels.
D. Interior flat sections.
E. Exterior flat sections.
F. Door frame, wood door edges, brickmould, mullions and astragals, if applicable.

Use the staining rag or foam brush to even out the color, wiping the stain in the direction of the grain.
Allow the stain to dry for 10–15 minutes.

Use a cleaning rag to achieve the desired shade, wiping in the direction of the grain.
For lighter shades, wait a few minutes, then rub off the excess stain.
For darker applications, first allow the stain to dry 2–4 hours, then apply an additional coat or coats.

STEP 3: BLEND

Tip: To reduce bristle loss during the blending process, periodically tug on the bristles with a rag.
This will help remove loose bristles so the strands do not fall off and stick to the product.

To ensure an even application, blend the stain using the 3" natural brush. Remove excess stain from the brush.
Lightly brush stained areas, paying special attention to the deep grooves and corners.

STEP 4: TEST FOR DRYNESS

To determine if the stain is dry enough for applying topcoat, stain the unstained fiberglass test sample.
Allow to dry for at least 6 hours before testing for dryness and applying topcoat.

Tip: The fiberglass test sample can be used to test for dryness of fiberglass doors, and approved Therma-Tru composite materials.

Place a piece of masking tape on the fiberglass test sample. Rub the tape down firmly and then remove.
The stain is completely dry when the tape can be removed without taking any of the stain off the sample.
If it is not dry, test again every hour until dry.

STEP 5: APPLY THE PROTECTIVE TOPCOAT

Stir the topcoat well with a stir stick. DO NOT SHAKE. Shaking causes bubbles in the topcoat and can cause improper application. The topcoat is milky in appearance but will dry clear.

Tip: To reduce bristle loss during the topcoat process, periodically tug on the bristles with a rag. This will help remove loose bristles so the strands do not fall off and stick to the product. To apply the topcoat, wet the tips of the 2" synthetic brush to apply a single, very thin first layer of topcoat.

Tip: For a fiberglass door, apply topcoat in the same order in which you applied the stain in Step 2.

After applying the topcoat, clean the brush with water. Wait 2–3 hours for the first layer to dry. Apply a second thin layer of topcoat with the 2" synthetic brush. Surfaces should look wet, but not milky. After applying topcoat, clean the brush with water.

Tip: Apply topcoat in a smooth and even motion. Do not use excessive brush strokes, as this may cause the topcoat to bubble or loosen the stain. Should this happen, remove the flawed topcoat before it dries by gently wiping with a clean rag. Touch up the area with a thin layer of fresh topcoat.

Tip: Apply both layers of topcoat to the sample used for the color test. You will use these for long-term maintenance. This does not apply if a hidden area was used to color test.

LONG-TERM MAINTENANCE

• To check for loss of gloss or roughness of your product's topcoat over time, save your color test sample and compare it periodically to your fiberglass doors, or approved Therma-Tru composite materials. Store your sample in a cool, dry place, away from light.
• All exterior finishes are affected by exposure to sun, weathering, moisture and air pollutants. Typical durability of the topcoat is 3–5 years, but may be less, depending upon site-specific conditions. When the gloss has decreased or the topcoat feels rough, it's time to reapply a new layer of topcoat.

DO NOT:
• Reuse topcoat more than 3 years old.
• Use topcoat that has been frozen.

Same-Day® Stain and topcoat may be purchased from select dealers, or by calling 1-877-997-8246.

STRIPPING TO REFINISH

1. Choose a standard paint stripper. The below paint removal products have been approved to use with Therma-Tru Door Systems.

CitriStrip® Multi-Surface Paint Remover*
Multi-Strip® Advanced Paint Stripper
Jasco® Premium Paint and Epoxy Remover
Klean-Strip® Kwik Paint and Varnish Remover
Savogran® SuperStrip

*NOTE: this is the only approved product for use with Lite Dividers and Dentil Shelves.

Follow the paint stripper manufacturer's directions and cautions for correct use.
Check with the product manufacturer of your fiberglass doors, or composite materials for details.

2. Apply the stripper, working on small areas at a time.

Tip: For a fiberglass door, apply the stripper to the (A) glass frame first and (B) the raised panels second (see illustration), before moving on to the rest of the door.

3. Remove the stripper according to the directions provided by the paint stripper manufacturer. If your fiberglass doors, or approved Therma-Tru composite materials have a factory-applied primer, it might be removed with long exposure to paint strippers.

Tip: Use a nylon bristle brush for easier removal of paint and stain from the wood-grain texture. For fiberglass doors, grade 000 steel wool can also be used.

4. Wash off the remaining stripper. After the stain or paint has been removed, clean with mild soap and water to completely remove any stripper residue. Rinse well and wipe dry. **Make sure the product is completely clean and dry before refinishing.**

TROUBLESHOOTING BEFORE STAINING

Fine white scratches:
1. Wipe the surface with mineral spirits and scratches should disappear.

Light scratches or scuffs:
1. Lightly spray scratched area with a matching primer or smooth the area by buffing in the direction of the grain. A 3M™ Scotch-Brite™ pad is recommended for buffing.
2. Clean the repaired area and allow to dry before finishing.

Deep scratches:
1. Fill the scratch with a wood crayon or scratch pencil. Body filler, wood filler or epoxy fiberglass filler may also be used. Lightly sand. Grain detail may have to be manually etched into these fillers.
2. Wipe off any excess filler with a cleaning rag dampened with mineral spirits.

Fiberglass Door – Gaps Between the Glass Frame and Glass:
1. Apply a sealant that is recommended for use with paint and / or stain to the area where the glass frame meets the glass. Follow the sealant manufacturer's warnings and instructions.
2. Scrape off the excess sealant. A caulk finishing tool, such as DAP® CAP™, is recommended.
3. Allow the sealant to cure per the manufacturer's instructions before painting or staining.

TROUBLESHOOTING AFTER STAINING

Fine scratches:
1. Wipe the surface with mineral spirits.
2. Apply the stain to the scratched area with a cotton swab or an artist brush.
3. Blend the stain until color match is achieved.
4. Wait until the stain is dry before applying topcoat.
5. Apply a fine layer of topcoat over the repaired area with a clean cotton swab or small brush (approximately 1/2" width or less).

Tip: Fine scratches can be touched up by daubing stain onto the area even if topcoat has already been applied.

CAUTION – PLEASE READ!

To avoid inhaling any fumes when using stains, paints or topcoats, it is extremely important to use adequate ventilation. Keep all materials out of the reach of children. Close all containers after use.

Same-Day® Stain
DANGER: Harmful or fatal if swallowed. Vapor harmful. Skin and eye irritant. Read all cautions on product.
NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
FIRST AID: If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately. In case of skin or eye contact, flush thoroughly with water. If irritation continues, see a physician.

Topcoat for Same-Day® Stain
DANGER: Vapor harmful. Skin and eye irritant. Read all cautions on product.
NOTICE: Contains small quantities of biocide / fungicide.
Avoid pollution of waterways and sewers by proper handling and disposal of container.
FIRST AID: If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately.
In case of skin or eye contact, flush thoroughly with water. If irritation continues, see a physician.

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD, or log on to www.epa.gov/lead.

5 YEAR LIMITED WARRANTY

For Therma-Tru® fiberglass doors, and approved Therma-Tru composite materials. For complete details on the Same-Day® Stain and topcoat limited warranty, go to www.samedaystain.com or ask your dealer for more details.

Therma-Tru Fiber-Classic® & Classic-Craft® Fiberglass Door Systems

For Continued Warranty Coverage: All Therma-Tru Fiber-Classic® and Classic-Craft® fiberglass door systems, and approved Therma-Tru composite materials, must be finished within 6 months of the installation date.**

Painting The Therma-Tru Door, or Approved Therma-Tru Composite Materials

1. Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution.
2. Rinse well and allow to dry completely. Mask off hardware, glass and remove weather-stripping before painting.
3. Weather-stripping may be removed by gently pulling out. Re-insert after door is completely dry.
4. Prime with an alkyd or acrylic-based primer. Allow primer to dry completely.
   *Only prime the door, approved Therma-Tru composite materials do not need to be primed.
5. Use a primer and paint that are compatible.
6. Use high-quality acrylic latex house paint, following manufacturer's directions for application.
7. Use exterior grade paints for outside surfaces.
8. Paint edges and exposed ends of door.

Painting Doorlite Frames

1. Remove any excess glass glazing sealant by first spraying with a window cleaner or water.
2. Use a single edge razor blade to score the glazing along the edge of the frame.
   Holding the razor blade at a 45 degree angle, scrape glazing from glass.
3. Wipe remaining residue off with window cleaner or mineral spirits.
4. Clean frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely.
5. Mask off glass.
6. Prime doorlite frames with an alkyd or acrylic-based primer. Allow primer to dry before applying finish paint coats.
7. Use high-quality acrylic latex house paint, following manufacturer's application instructions.
   Use exterior grade paints for outside surfaces.

Hints

1. Provide and maintain a properly installed cap or head flashing to protect top of surfaces from **water intrusion** and damage.
   Tape and properly seal the top flap of the Water Resistive Barrier (WRB) over the head flashing.
2. Caulk around **entire** "weather" side of the door system, sealing along the brickmould to the flashing material or siding and seal all joints between the jambs and moldings.
3. Seal the joints between the exterior hardware trim and the door face to **prevent** air and water infiltration.
4. Place and set galvanized finish nails through the brickmould around the perimeter.
   Use exterior grade screws if you are installing a storm door to the brickmould.
   Countersink all fasteners and cover with exterior grade epoxy putty, or use provided hidden fastener system.
5. Use a low expansion window and door foam in the cavity between the opening and the unit to reduce **air & water infiltration** and **heat transfer**. Therma-Tru recommends OSI QUAD FOAM.
6. For Continued Warranty Coverage:**
   All Therma-Tru Fiber-Classic and Classic-Craft door systems, and approved Therma-Tru composite materials **must be finished within 6 months of the installation date.**
   Ready-to-install smooth white composite components do not require finishing.
   All PVC lite frames, **must be finished within 30 days of installation date.**
   All bare wood surfaces (such as door frames) **must be finished within 2 weeks of installation** or exposure to weather.
7. Paint (or stain – see NOTE below) according to Therma-Tru finishing instructions (see NOTE below). Do Not paint or stain the weatherstrip, it is "friction-fit" and easily removed for painting or staining. If weatherstrip is removed, ensure that it is re-inserted into the same location. Refer to the Troubleshooting section.
8. **All doors must** have all 6 sides finished and for out-swing doors the sides, top and bottom must be inspected and maintained as regularly as all other surfaces.
9. Maintain or replace sealants and finishes as soon as any deterioration is evident. For semi-gloss or glossy paint or clear coats, do this when the surface becomes dull or rough. More severe climates and exposures will require more frequent maintenance.
10. Access our website www.thermatru.com for printable versions of the installation and to view our Troubleshooting video for minor installation issues and adjustments.

NOTE: For detailed information on finishing and warranty coverage see "THERMA-TRU FIBERGLASS and STEEL DOOR SYSTEMS RECOMMENDATIONS FOR PROPER FINISHING AND PAINTING OR STAINING" located in the warranty section of the Therma-Tru website @ www.therma-tru.com.

Therma-Tru Smooth-Star® Fiberglass Door Systems

For Continued Warranty Coverage: All Therma-Tru Smooth-Star® fiberglass door systems, and approved Therma-Tru composite materials, must be finished within 6 months of the installation date.**

Painting The Therma-Tru Door, and Approved Therma-Tru Composite Materials

1. Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution.
2. Rinse well and allow to dry completely. Mask off hardware, glass and remove weather-stripping before painting.
3. Weather-stripping may be removed by gently pulling out. Re-insert after door is completely dry.
4. Use high-quality acrylic latex house paint, following manufacturer's directions for application.
5. Use exterior grade paints for outside surfaces.
6. Paint edges and exposed ends of door.
7. DO NOT STAIN.

Painting Doorlite Frames

1. Remove any excess glass glazing sealant by first spraying with a window cleaner or water.
2. Use a single edge razor blade to score the glazing along the edge of the frame.
   Holding the razor blade at a 45 degree angle, scrape glazing from glass.
3. Wipe remaining residue off with window cleaner or mineral spirits.
4. Clean frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely.
5. Mask off glass.
6. Prime door lite frames with an alkyd or acrylic-based primer. Allow primer to dry before applying finish paint coats.
7. Use high-quality acrylic latex house paint, following manufacturer's application instructions.
   Use exterior grade paints for outside surfaces.

Hints

1. Provide and maintain a properly installed cap or head flashing to protect top of surfaces from **water intrusion** and damage.
   Tape and properly seal the top flap of the Water Resistive Barrier (WRB) over the head flashing.
2. Caulk around **entire** "weather" side of the door system, sealing along the brickmould to the flashing material or siding and seal all joints between the jambs and moldings.
3. Seal the joints between the exterior hardware trim and the door face to **prevent** air and water infiltration.
4. Place and set galvanized finish nails through the brickmould around the perimeter.
   Use exterior grade screws if you are installing a storm door to the brickmould.
   Countersink all fasteners and cover with exterior grade epoxy putty, or use provided hidden fastener system.
5. Use a low expansion window and door foam in the cavity between the opening and the unit to reduce **air & water infiltration** and **heat transfer**. Therma-Tru recommends OSI QUAD FOAM.
6. For Continued Warranty Coverage:**
   All Therma-Tru Smooth-Star door systems, and approved Therma-Tru composite materials,
   must be finished within 6 months of the installation date.
   Ready-to-install smooth white composite door frame components do not require finishing.
   All PVC lite frames, **must be finished within 30 days of installation date.**
   All bare wood surfaces (such as door frames) **must be finished within 2 weeks of installation** or exposure to weather.
7. Paint (DO NOT STAIN) according to Therma-Tru finishing instructions (See NOTE below). Do Not paint or stain the weatherstrip, it is "friction-fit" and easily removed for painting or staining. If weatherstrip is removed, ensure that it is re-inserted into the same location. Refer to the Troubleshooting section.
8. **All doors must** have all 6 sides finished and on out-swing doors the sides, top and bottom must be inspected and maintained as regularly as all other surfaces.
9. Maintain or replace sealants and finishes as soon as any deterioration is evident. For semi-gloss or glossy paint or clear coats, do this when the surface becomes dull or rough. More severe climates and exposures will require more frequent maintenance.
10. Access our website www.thermatru.com for printable versions of the installation and to view our Troubleshooting video for minor installation issues and adjustments.

NOTE: For detailed information on finishing and warranty coverage see "THERMA-TRU FIBERGLASS and STEEL DOOR SYSTEMS RECOMMENDATIONS FOR PROPER FINISHING AND PAINTING OR STAINING" located in the warranty section of the Therma-Tru website @ www.therma-tru.com

Therma-Tru Traditions, Profiles and 90 Minute Steel Door Systems

For Continued Warranty Coverage: All Therma-Tru Steel door systems must be finished within several days of the installation date.**

Painting The Door

1. Clean first with mild detergent and water or use a TSP (tri-sodium phosphate) solution.
2. Rinse well and allow to dry completely. Mask off hardware, glass and remove weather-stripping before painting.
3. Weather-stripping may be removed by gently pulling out. Re-insert after door is completely dry.
4. Use high-quality acrylic latex house paint, following manufacturer's directions for application.
5. Use exterior grade paints for outside surfaces.
6. Paint edges and exposed ends of door.
7. DO NOT STAIN.

Painting Doorlite Frames

1. Remove any excess glass glazing sealant by first spraying with a window cleaner or water.
2. Use a single edge razor blade to score the glazing along the edge of the frame.
   Holding the razor blade at a 45 degree angle, scrape glazing from glass.
3. Wipe remaining residue off with window cleaner or mineral spirits.
4. Clean frame with a mild detergent and water, or use a TSP solution. Rinse well and allow to dry completely.
5. Mask off glass.
6. Prime door lite frames with an alkyd or acrylic-based primer. Allow primer to dry before applying finish paint coats.
7. Use high-quality acrylic latex house paint, following manufacturer's application instructions.
   Use exterior grade paints for outside surfaces.

Hints

1. Provide and maintain a properly installed cap or head flashing to protect top of surfaces from **water intrusion** and damage.
   Tape and properly seal the top flap of the Water Resistive Barrier (WRB) over the head flashing.
2. Caulk around **entire** "weather" side of the door system, sealing along the brickmould to the flashing material or siding and seal all joints between the jambs and moldings.
3. Seal the joints between the exterior hardware trim and the door face to **prevent** air and water infiltration.
4. Place and set galvanized finish nails through the brickmould around the perimeter.
   Use exterior grade screws if you are installing a storm door to the brickmould.
   Countersink all fasteners and cover with exterior grade epoxy putty.
5. Use a low expansion window and door foam in the cavity between the opening and the unit to reduce **air & water infiltration** and **heat transfer**. Therma-Tru recommends OSI QUAD FOAM.
6. For Continued Warranty Coverage:**
   All Therma-Tru Steel door systems **must be finished within several days of the installation date.**
   All bare wood surfaces (such as door frames) **must be finished within 2 weeks of installation** or exposure to weather.
7. Paint (DO NOT STAIN) according to Therma-Tru finishing instructions (See NOTE below). Do Not paint or stain the weatherstrip, it is "friction-fit" and easily removed for painting or staining. If weatherstrip is removed, ensure that it is re-inserted into the same location. Refer to the Troubleshooting section.
8. **All doors must** have all 6 sides finished and on out-swing doors the sides, top and bottom must be inspected and maintained as regularly as all other surfaces.
9. Maintain or replace sealants and finishes as soon as any deterioration is evident. For semi-gloss or glossy paint or clear coats, do this when the surface becomes dull or rough. More severe climates and exposures will require more frequent maintenance.
10. Access our website www.thermatru.com for printable versions of the installation and to view our Troubleshooting video for minor installation issues and adjustments.

NOTE: For detailed information on finishing and warranty coverage see "THERMA-TRU FIBERGLASS and STEEL DOOR SYSTEMS RECOMMENDATIONS FOR PROPER FINISHING AND PAINTING OR STAINING" located in the warranty section of the Therma-Tru website @ www.therma-tru.com

PAINTING ALUMINUM ASTRAGALS

Choose a high quality exterior grade oil based or spray enamel house paint.

Latex is not recommended.

Match the type of primer to the paint. Primer and paint should be produced by the same manufacturer and made to work together.

GETTING STARTED

1. **Mask Astragal.**
   Mask around astragal to cover any surfaces not to be painted.

2. **Sand Astragal.**
   Lightly sand entire surface of astragal to be painted and clean thoroughly.

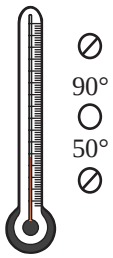
⊘ **DO NOT paint while dew is present or within an hour before dusk.**

⊘ **DO NOT paint in direct sunlight.**

⊘ **DO NOT use turpentine.**

⊘ **DO NOT sand the door.**

○ **BEFORE FINISHING**, be sure, the temperature is between 50° and 90°F and humidity is below 85%.



AIR OR AIRLESS SPRAY APPLICATION

3. **PRIME THE ASTRAGAL.**
   Mist the astragal with primer for 100% coverage. Following the spray gun manufacturer's recommendations for use, apply the primer in a sweeping motion. Avoid heavy coating as drips and runs may result. If they do, use a brush to correct.

4. **WAIT FOR THE PRIMER TO DRY.**
   Follow the manufacturer's drying time recommendations for the primer before applying a paint coat. The primer must be completely dry before painting. Clean spray equipment according to manufacturer's method.

5. **PAINT THE ASTRAGAL.**
   When primer is dry, mist the astragal with paint for 100% coverage. Following the spray gun manufacturer's recommendation for use, applying the paint in a sweeping motion. Avoid heavy coating as drips and runs may result. If they do, use a brush to correct. If a second coat of paint is needed, be sure the first coat is completely dry before applying the second coat of paint.

6. Clean the spray equipment following paint manufacturer's recommendation.

BRUSH-ON APPLICATION

3. **PRIME THE ASTRAGAL USING A BRUSH.**
   Apply a primer that is recommended by the paint manufacturer that you have chosen.

4. **WAIT FOR THE PRIMER TO DRY.**
   Follow the manufacturer's drying time recommendations for the primer, before applying the paint. The primer must be completely dry before painting. Clean brushes according to manufacturer's method.

5. **PAINT THE ASTRAGAL WITH A BRUSH.**
   Apply the paint. If a second coat of paint is needed, wait until the first coat is completely dry before applying a second coat.

6. Clean the brush following paint manufacturer's recommendation.

Doorlite Frame Finishing

THERMA TRU® DOORS

Durable Doorlite Frame

- *No warping*
- *Can be painted or stained a dark color*
- *Can be used behind a storm door*

TO REMOVE GLAZING COMPOUND: Wet with window cleaner or water first. Use razor blade to score glazing along edge of frame. Holding razor blade at a 45° angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits.
FINISH FRAME WITHIN TWO WEEKS OF EXPOSURE.
TO FINISH THE FRAME AROUND GLASS: Clean first with mild detergent and water or TSP solution. Rinse well and allow to dry.
PAINT: Prime first with an alkyd- or acrylic-based primer and allow to dry. Then paint with a high quality, exterior grade, acrylic-latex house paint, OR,
STAIN AND TOPCOAT: Use a Therma-Tru Finishing System Kit only. To order a Therma-Tru Finishing System Kit, contact your local Therma-Tru dealer, visit us on the Internet at www.thermatru.com or call toll free at 1-877-99-STAIN (997-8246). See the Finishing System Instruction brochure or the Corner Door Tag for more detailed application information.

CAUTION: Complete curing of the finish over a polymer part generally requires a longer period of time than on other surfaces.
DECORATIVE GLASS: Our Therma-Tru artisans have hand-crafted the decorative glass in this door system, and as with any hand-crafted product, no two are alike. Slight irregularities and imperfections should not be considered defects.
WARRANTY INFORMATION: This product is covered by a limited warranty. The warranty does not cover defects that are the result of finishing or installation not in accordance with our instructions. For further information contact:

THERMA-TRU DOORS • Technical Services Department
1750 Indian Wood Circle • Maumee, Ohio 43537 • 1-800-THERMATRU (843-7628) • www.thermatru.com

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THERMA-TRU DOORS

Durable BTS Doorlite Frame

- ***No yellowing***
- ***No warping***
- ***Can be painted a dark color***
- ***Can be used behind a storm door***

TO REMOVE GLAZING COMPOUND: Wet with window cleaner or water first. Use razor blade to score glazing along edge of frame. Holding razor blade at a 45∞ angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits.

Frames are colorfast and will provide acceptable service if left unpainted, OR,
TO FINISH THE FRAME AROUND GLASS: Clean first with mild detergent and water or TSP solution. Rinse well and allow to dry.
PAINT: Prime first with an alkyd- or acrylic-based primer and allow to dry. Then paint with a high quality, exterior grade acrylic-latex house paint.

CAUTION: Complete curing of the finish over a polymer part generally requires a longer period of time than on other surfaces.
DECORATIVE GLASS: Our Therma-Tru artisans have hand-crafted the decorative glass in this door system, and as with any hand-crafted product, no two are alike. Slight irregularities and imperfections should not be considered defects.
WARRANTY INFORMATION: This product is covered by a limited warranty. The warranty does not cover defects that are the result of finishing or installation not in accordance with our instructions. For further information contact:

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ASSEMBLED IN MEXICO

9/5/07
DLLBLBTS

THERMA-TRU® DOORS

PVC FRAMES
• Do not finish a dark color
• Do not use behind a storm door

TO REMOVE GLAZING COMPOUND: Wet with window cleaner or water first. Use razor blade to score glazing along edge of frame. Holding razor blade at a 45° angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits.
TO FINISH THE FRAME AROUND GLASS: Clean first with mild detergent and water or TSP solution. Rinse well and allow to dry.
PAINT: Prime first with an alkyd- or acrylic-based primer and allow to dry. Then paint with a high quality, exterior grade, acrylic-latex house paint, OR,
STAIN AND TOPCOAT (Fiber-Classic® products only): Use a Therma-Tru Finishing System Kit only. To order a Therma-Tru Finishing System Kit, contact your local Therma-Tru dealer, visit us on the Internet at www.thermatru.com or call toll free at 1-877-99-STAIN (997-8246). See the Finishing System Instruction brochure or the Corner Door Tag for more detailed application information.

CAUTION: Exterior frame surface requires field finish for protection. ***PAINT OR STAIN AND CLEAR COAT within 6 Months*** of installation. Failure to do so will void warranty. To prevent distortion from heat, DO NOT finish in dark colors or install behind storm doors. Finishing in dark colors or installing behind storm doors will void warranty.
DECORATIVE GLASS: Our Therma-Tru artisans have hand-crafted the decorative glass in this door system, and as with any hand-crafted product, no two are alike. Slight irregularities and imperfections should not be considered defects.
WARRANTY INFORMATION: This product is covered by a limited warranty. The warranty does not cover defects that are the result of finishing or installation not in accordance with our instructions. For further information contact:

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ASSEMBLED IN MEXICO

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THERMA-TRU® DOORS

FLUSH-GLAZED DOORS
AND SIDELITES

TO REMOVE GLAZING COMPOUND: Wet with window cleaner or water first. Use razor blade to score glazing along edge of frame. Holding razor blade at a 45° angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits.
FINISH DOOR WITHIN 6 MONTHS OF EXPOSURE.
PAINT: Clean first with mild detergent and water or TSP solution. Rinse well and allow to dry completely. Prime first with an alkyd- or acrylic-based primer and allow to dry. Then paint with a high quality, exterior grade, acrylic-latex house paint.
Note: Smooth-Star Doors do not need a primer before painting.
STAIN AND TOPCOAT: For Classic-Craft® and Fiber-Classic® products use a Therma-Tru Finishing System Kit only. To order a Therma-Tru Finishing System Kit, contact your local Therma-Tru dealer, visit us on the Internet at www.thermatru.com or call toll free at 1-877-99-STAIN (997-8246). See the Finishing System Instruction brochure or the Corner Door Tag for more detailed application information.
CAUTION: Complete curing of the finish over a fiberglass product generally requires a longer period of time than other surfaces.
DECORATIVE GLASS: Our Therma -Tru artisans have hand-crafted the decorative glass in this door system, and as with any hand-crafted product, no two are alike. Slight irregularities and imperfections should not be considered defects.
WARRANTY INFORMATION: This product is covered by a limited warranty. The warranty does not cover defects that are the result of finishing or installation not in accordance with our instructions. For further information contact:

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ASSEMBLED IN MEXICO

9/5/07
DLLBLFG

ATTENTION HOMEOWNER

THERMA-TRU® DOORS

TO REMOVE GLAZING COMPOUND
Wet with window cleaner or water first. Use razor blade to score glazing along edge of frame. Holding razor blade at a 45 deg. angle, scrape glazing from glass. Wipe remaining residue off with window cleaner or mineral spirits.

TO FINISH THE FRAME AROUND GLASS
It is recommended that a paintable caulk be applied to the exterior and interior frame corner joints (including screw channel covers) to achieve maximum weather and aesthetic performance. Clean entire frame with mild detergent and water or TSP solution. Rinse well and allow to dry.

PAINT
Prime first with an alkyd-or acrylic-based primer and allow to dry. Then paint with a high quality, exterior grade acrylic-latex house paint.

STAIN
Obtain Therma-Tru available "Buff Primer Kit" and apply to entire frame and all screw channel cover pieces. Allow to fully dry. Apply Therma-Tru available "Stain Kit" to entire assembly according to directions.

LAMINATED GLASS
Meets the ASTM C1172 standard for laminated glass. During the stringent laminated manufacturing process, inherent marks may appear. Slight bubbles, lines or surface imperfections are not considered as glass defects.

WARRANTY
This product is covered by a limited warranty. The warranty does not cover defects that are a result of finishing or installation not in accordance with our instructions. For further information contact:

THERMA-TRU DOORS • Technical Services Department
1750 Indian Wood Circle • **Maumee, Ohio• 43537** 1-800-THERMATRU (843-7628) • **www.thermatru.com**

LABEL TO BE REMOVED BY HOMEOWNER OR END USER ONLY

9/5/07
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Impact Frame

All Therma-Tru door systems and associated components should be inspected and checked at least once a year for the following conditions: fading of door finishes, weatherstrip seal inadequacies, door bottom gasket or sill gasket wear, and vinyl threshold or oak riser splitting or cracking. Upon inspection if any of these components fail to function, they should be repaired or replaced as follows.

- Finishes

Clearcoats and Stains

All exterior finishes are affected by exposure and weathering from the sun, moisture and air pollutants. A simple application of a maintenance coat of topcoat will renew the protection over the stained surface on Classic-Craft and Fiber-Classic door slabs. **Before topcoat fails, reapply fresh topcoat.** Clean first with a household detergent and water. Rinse and let dry. Reapply the topcoat approximately every 3-5 years or when gloss fades. Fading will vary.

HINT: Pull out and compare the sample that was finished when door was new to the door periodically. When compared to the sample, if the door seems rough or has lost its gloss, you need to re-topcoat your door.

Paint on Classic-Craft or Fiber-Classic Doors

For fading, cracking, splitting, etc., of painted Classic-Craft or Fiber-Classic doors, stripping and refinishing may be required. Refer to SITE 3 *Stripping to Refinish* for proper instructions on stripping and refinishing.

Paint on Smooth-Star or Steel Doors

For cracking, splitting or deteriorating paint finishes on steel doors, lightly sand surface of door and touch up to match overall finish.

Special Note for Outswing Door Systems

Swing-out doors must have all edges - sides, top and bottom - finished. Inspect and maintain these edges regularly as all other surfaces.

Paint on Composite Door Frame components

For cracking, splitting or deteriorating paint finishes on smooth composite door frame components, lightly sand surface of part and touch up to match overall finish.

For cracking, splitting or deteriorating paint finishes on grained composite door frame components, stripping and refinishing may be required.

Refer to SITE 3 *Stripping to Refinish* for proper instructions on stripping and refinishing.

Refer to SITE 2 *Finishing Instructions* of the Product Manual for more details.

-Weatherstripping

If the weatherstripping fails to perform (i.e., not sealing the door system properly, cracking, tearing, etc.) the weatherstrip needs to be replaced. Remove the existing weatherstripping and replace. Refer to SITE 5 Weatherstrip Replacement for proper installation of replacement weatherstrip.

- Door Bottom and Sill Gaskets

If the door bottom gasket fails to perform (i.e., splitting, cracking, pulling away from door slab, etc.), the door bottom needs to be replaced with a new door bottom. See SHOP 3 for proper door bottom installation.

If the sill gaskets on outswing sills fails to perform (i.e., splitting, cracking, etc.), the sill gasket needs to be replaced. Pull the existing gasket and replace the gasketing for proper functioning of the sill.

-Risers for Adjustable Sills

If the riser for an adjustable sill fails to perform (i.e., splitting, cracking, etc.), the riser needs to be replaced. Remove the existing riser and replace. Refer to SITE 5 for proper riser selection and replacement installation.

-Vinyl Thresholds

If the vinyl threshold fails to perform (i.e., splitting, cracking, etc.), the vinyl threshold needs to be replaced. Remove the existing threshold and replace. Refer to SITE 5 for proper vinyl threshold selection and replacement installation.

- Corner Seal Pads

If corner seal pads are torn or missing, replace corner seal pads. Refer to SITE Installation Section or SHOP Assembly Sections for adjustable and basic fixed sills.

- Sealing/Resealing Areas

If a caulk seal fails to perform (i.e. water leakage), remove existing seal and reseal area. Refer to Product Manual table of contents for specific door type and sealing condition.

-Stripping to Refinish

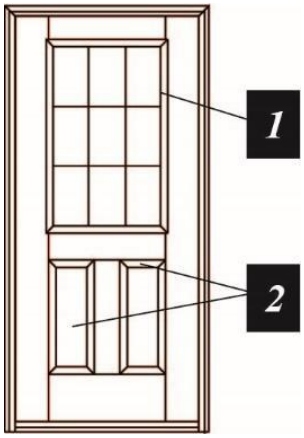
1. Choose a standard paint stripper. The below paint removal products have been approved to use with Therma-Tru Doors and Components.

   CitriStrip® Multi-Surface Paint Remover*
   Multi-Strip® Advanced Paint Stripper
   Jasco® Premium Paint and Epoxy Remover
   Klean-Strip® Kwik Paint and Varnish Remover
   Savogran® SuperStrip

   *NOTE: this is the only approved product for use with Lite Dividers and Dentil Shelves.

   Follow the paint stripper manufacturer's directions and cautions for correct use.

2. Apply stripper to doorlite frames first and raised panel inserts second (see illustration). Remove the stripper according to the directions provided by the paint stripper manufacturer. If your fiberglass doors, or approved Therma-Tru composite materials have a factory-applied primer, it might be removed with long exposure to paint strippers.



   Use a brass wire brush, nylon bristle brush or grade 000 steel wool for easier removal of paint and stain from the wood grain texture.

3. Apply stripper to the rest of the door. Work on small areas at a time.
   Follow the paintstripper manufacturer's directions and cautions for correct use.

4. Wash off remaining stripper. After the stain or paint has been removed, scrub the door with an all-purpose cleaner to completely remove any stripper residue. Rinse well and wipe dry.

   Make sure door is completely clean and dry before refinishing.

Savogran and SuperStrip are registered trademarks of the Savogran Company.

SITE 4 Troubleshooting

PROBLEM: Air and/or light leak at top or bottom of jamb.

Cause	Solution	Refer to…
Weatherstrip missing. Weatherstrip painted. Weatherstrip cracked, torn or damaged.	Replace weatherstrip.	Site 5 - Weatherstrip Replacement
Bottom corner seal pads missing or removed.	Replace pads.	SHOP Frame Assembly Sections SITE 1 - Pre-hung Unit Installation for Adjustable Sills SITE 1 Corner Seal Pad Instructions
Door loose in frame, with excessive in-and-out movement when latched.	Adjust strike plate for tighter fit.	SITE 1 - Pre-hung Unit Installation
Door not meeting weatherstrip evenly when it closes, hitting the top or bottom first.	Realign, reshim, readjust lockside jamb so door meets weatherstrip evenly from top to bottom.	SITE 1 - Pre-hung Unit Installation

Water Leakage Around or Under Sill

PROBLEM: Water leakage around or under sill.

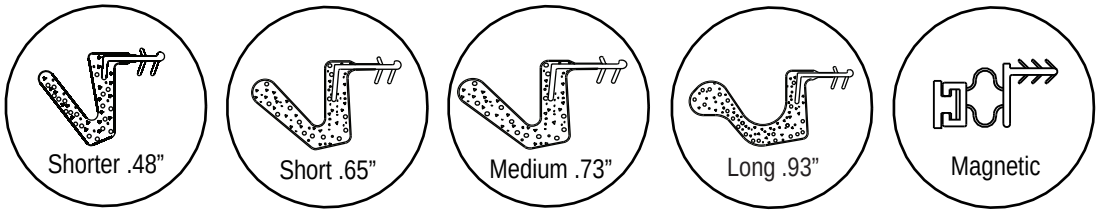
Cause	Solution	Refer to…
Door not meeting weatherstrip evenly when it closes, hitting the top to bottom first.	Realign, reshim, readjust lockside jamb so door meets weatherstrip evenly from top to bottom.	SITE 1 - Pre-hung Unit Installation
Damaged or painted weatherstrip.	Replace weatherstrip.	SITE 5 - Weatherstrip Replacement
Improper/insufficient sealant and/or sealant breakdown between sill and subfloor.	Reseal under sill using Elastomeric and Polyurethane sealant.	SITE 1 - Pre-hung Unit Installation
Broken seal where the sill meets the jamb.	Remove corner seal pad, pull out weatherstrip at bottom, and place a bead of Elastomeric and Polyurethane sealant along entire joint where jamb and sill meet. Replace weatherstrip and reapply corner seal pad.	
Sill humped or depressed beyond range of door bottom's sealing capacity.	Anchor sill to draw down straight by drilling pilot holes and securing with galvanized screws. Replace any wrinkled/torn door bottom.	SITE 1 - Pre-hung Unit Installation
Humped sill.	Shim jamb legs up to allow sill to straighten. Reseal with Elastomeric and Polyurethane sealant under sill and anchor sill in place.	
Damaged sill saddle causing door bottom bulb seal to bunch up and wrinkle when the unit closes.	Replace the saddle and screw down.	SITE 5 - Adjustable Sill Threshold Replacement

PROBLEM: Water leakage around or under sill.

Cause	Solution	Refer to…
Damaged door bottom.	Replace door bottom, sealing first.	SHOP 3 - Door Bottom Selection and Installation
Door sagging out of square in frame.	Make sure LONG hinge screws provided are properly installed in the top hinge through the jamb to the stud.	SITE 1 - Pre-hung Unit Installation
Jamb out of alignment.	If jamb is twisted along length of the members, straighten it by reshimming to eliminate the twist and maintain an even head margin.	SITE 1 - Pre-hung Unit Installation
Jamb out of square to door.	Usually caused by plumb frame members sitting on unlevel floor/sill area. Free lowest jamb leg and shim it up to level the sill and maintain an even head margin. Shim under sill if necessary.	

PROBLEM: Water leakage around door/system perimeters.

Cause	Solution	Refer to…
Door not meeting weatherstrip evenly when it closes, hitting the top or bottom first.	Realign, reshim, readjust lockside jamb so door meets weatherstrip evenly from top to bottom.	SITE 1 - Pre-hung Unit Installation
Improper/incomplete seal and/or sealant breakdown around or on top of unit.	Properly flash and/or seal with Elastomeric or Polyurethane sealant around brickmold.	SITE 1 - Pre-hung Unit Installation
Improper/incomplete seal and/or breakdown around fixed unit sidelites where they meet the jamb.	Reseal with Elastomeric and Polyurethane sealant to restore system integrity.	



Book Size

	Hinge Side	Lock Side	Head Jamb	Astragal
Classic Craft	Medium	Medium	Medium	Medium*
FC/SS	Medium	Long	Long	Long
Steel Wood Edge	Medium/Magnetic	Long/Magnetic	Long/Magnetic	Long/Magnetic
Steel Edge (Wood Frame)	Short	Short	Short	
Steel Edge (Steel Frame)	Shorter	Shorter	Shorter	
Noise Reduction	Medium	Long	Long	

*For Classic Craft doors, replace long reach astragal weatherstrip with medium reach.

Hybrid

	Hinge Side	Lock Side	Head Jamb	Astragal
Classic Craft	Medium	Medium	Medium	Medium*
FC/SS	Medium	Long	Long	Long
Steel Wood Edge	Medium/Magnetic	Long/Magnetic	Long/Magnetic	Long/Magnetic
Noise Reduction	Medium	Long	Long	

*For Classic Craft doors, replace long reach astragal weatherstrip with medium reach.

U1 Revised

	Hinge Side	Lock Side	Head Jamb	Astragal
Classic Craft	Medium	Medium	Medium	Medium*
FC/SS	Medium	Long	Long	Long
Steel Wood Edge	Medium/Magnetic	Long/Magnetic	Long/Magnetic	Long/Magnetic
Steel Edge (Wood Frame)	Medium	Medium	Medium	
Steel Edge (Steel Frame)	Shorter	Shorter	Shorter	
Noise Reduction	Medium	Long	Long	

*For Classic Craft doors, replace long reach astragal weatherstrip with medium reach.

PROBLEM: Water leakage around lites.

Cause	Solution	Refer to…
Loose lites.	Tighten doorlite screws. Apply sealing tape around inside perimeter of interior frame if required.	SHOP 3 - Doorlite and Designline Panel Installation
Door face-to-lite frame seal breakdown.	Seal with Elastomeric and Polyurethane sealant around lite perimeter and/or paint or repaint the perimeter to form a paint seal.	
Glass-to-lite frame seal breakdown.	Replace doorlite.	SHOP 3 - Doorlite and Designline Panel Installation

PROBLEM: Water leakage around Fiber-Classic Designline panels.

Cause	Solution	Refer to…
Loose panels.	Tighten screws. Apply sealing tape around inside perimeter of interior frame if required.	SHOP 3 - Doorlite and Designline Panel Installation
Door face-to-panel seal breakdown.	Seal with Elastomeric and Polyurethane sealant around panel perimeter and /or paint or repaint the perimeter to form a paint seal.	

PROBLEM: Door will not open or close properly.

Cause	Solution	Refer to…
Door not meeting weatherstrip evenly when it closes, hitting the top or bottom first.	Realign, reshim, readjust lockside jamb so the door meets the weatherstripping evenly from top to bottom.	SITE 1- Pre-hung Unit Installation
Adjustable strike plate not properly aligned.	Realign adjustable strike plate.	SITE 1- Pre-hung Unit Installation
Door sagging out of square in frame (uneven head margin).	Make sure LONG hinge screws provided are properly installed in the top hinge through the jamb to the stud.	SITE 1 - Pre-hung Unit Installation
Frame out of square (uneven sill/door bottom margin).	Usually caused by plumb frame members sitting on unlevel floor/sill area. Free lowest jamb leg and shim it up to level the sill and maintain an even head margin.	
Door interferes with jamb between hinge locations.	Install long screws into side jamb(s) between hinge locations.	SITE 1 - Pre-hung Unit Installation

PROBLEM: Door does not have enough or too much force.

Cause	Solution	Refer to…
Hinge does not have enough force to close and latch the door.	Remove cross pin. Insert 9/64" allen wrench in hex adjustment hole and turn until holes line up. Re-insert cross pin. Remove allen wrench and test closing action of door. Repeat if necessary. Over tightening may shorten the life of the hinge. Another hinge may be required.	SITE 1- Installation Instructions.
Too much force causes door to slam and make opening difficult.	Replace one of the hinges with a standard hinge without adjustable tension.	

PROBLEM: Panels are not sticking - need to re-apply

Cause	Solution	Refer to…
Door face to panel adhesive tape breakdown.	Reapply by removing panel. Clean panel and door with 70% Isopropyl Alcohol, taking care to remove all old adhesive. Apply new adhesive tape. Apply adequate pressure.	SHOP 3 –Doorlite and Designline Panel Installation

Miniblind Does Not Operate Properly

PROBLEM: Miniblind does not operate properly.

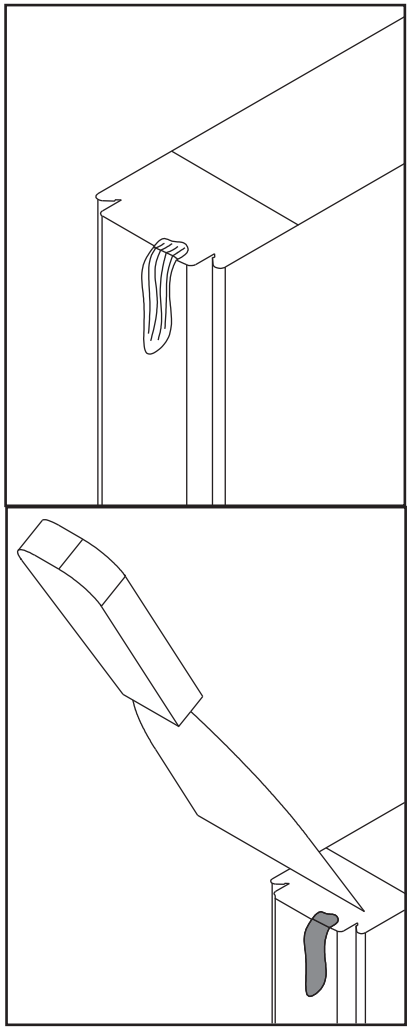
Cause	Solution	Refer to…
Handle not attached.	Reattach the handle. Tilt the handle and place it back into the track. Slide the handle up or down the length of the track until two audible clicks are heard.	
Blinds are uneven.	Slide the handle up and down the entire length of the track to bring the blinds back to a straight and even position.	
Parts need replaced.	Replacement handle and additional caps for the ends of the track can be ordered by visiting www.thermatru.com or by contacting Customer Service at 1-800-THERMA-TRU.	

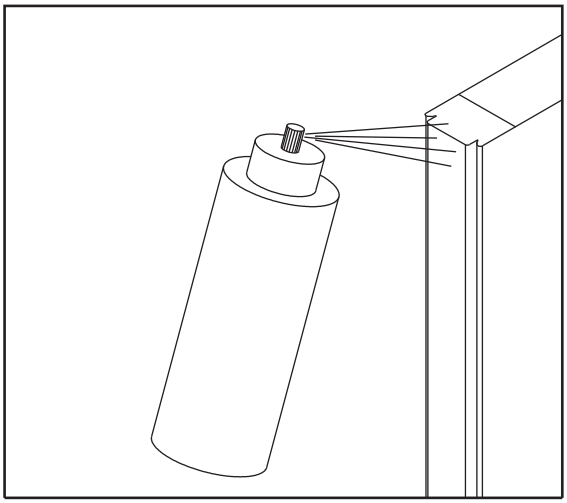
Stile Chips

Fill Chips and Sand Smooth

Fill minor cosmetic damage to wood stiles with a hardening type wood putty.

File and sand smooth.





Reprime Area Using Touch-up Paint

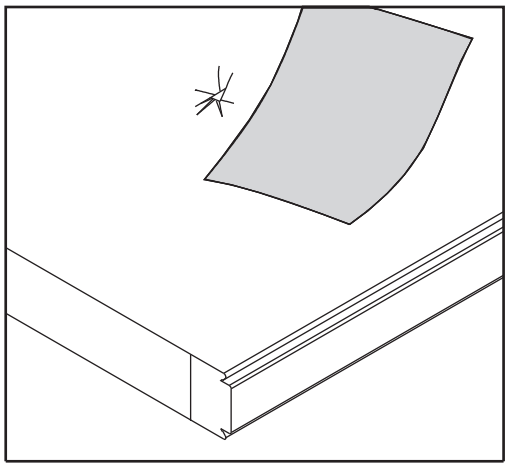
Steel Door Dent Repair

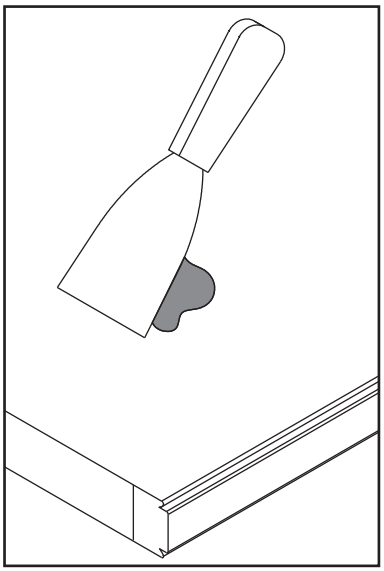
Clean and Roughen Surface

Clean surface surrounding dent.

Roughen using 100 grit sandpaper.

If possible, do not sand through the existing factory-applied primer.





Fill Dent

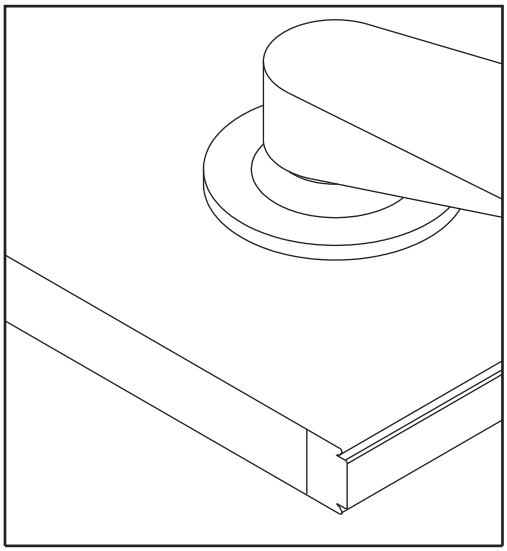
Fill dent using Therma-Tru Dent Repair Kit (Part # MS00DRK) or an automotive body-filler compound.

Smooth using a wide-blade putty knife.

Overfill to account for shrinkage and sanding.

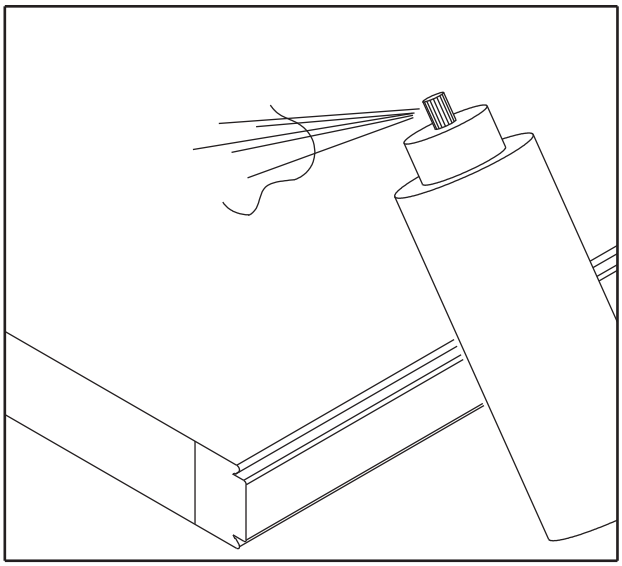
Sand Dent Repair

Sand repair using a large sanding block or orbital power sander with 220 grit sandpaper.



Re-prime Repair Area(s)

If bare metal was exposed, paint entire repair area with a primer containing rust inhibitors.



Re-prime repaired area using Therma-Tru touch-up primer. If a rust inhibiting primer was used, let dry thoroughly before applying Therma-Tru touch-up primer.

THERMA-TRU TOUCH-UP PRIMERS

Description	Part Number
Steel White Primer	MSWHABP-01
Classic-Craft Canvas, Oak, Rustic, and Fiber-Classic Primer	MSCCAB-01
Classic-Craft Mahogany Primer	MSCCMAB-01
Smooth-Star Primer	MSWHSABP-03
Steel Edge Door Primer	MSWHSED
Steel Frame Primer	MSWHAF2

Classic-Craft, Fiber-Classic and Smooth-Star Skin Repair

For minor scratches in Classic-Craft Canvas, Oak, Rustic or Fiber-Classic doors, use Classic-Craft & Fiber-Classic Primer (Part # MSCCAB-01) to touch up.

For minor scratches in Classic-Craft Mahogany doors, use Primer (Part # MSCCMAB) to touch up.

For minor scratches in Smooth-Star doors, use Smooth-Star White Primer (Part # MSWHSABP-03) to touch up.

For deep scratches, fill with crayon or patch pencil.

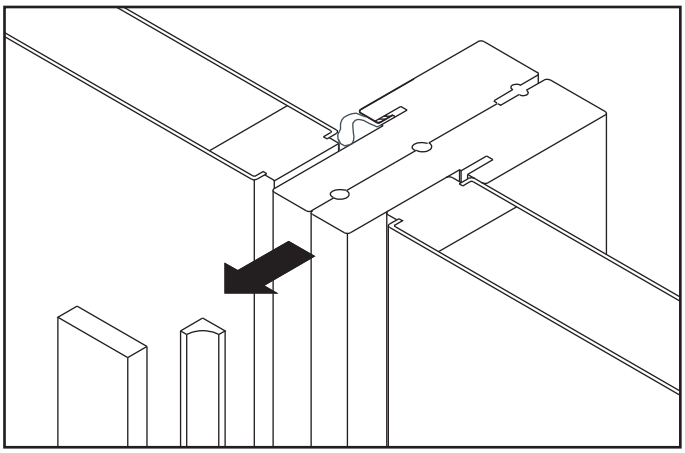
Therma-Tru does not recommend any other repair procedures for composite doors.

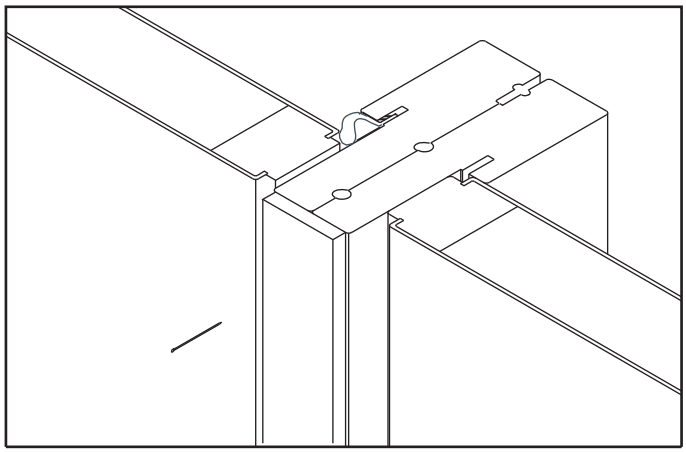
Sidelite Slab Replacement

Remove Cove Molding and Inside Vertical Casing if applicable

Remove and set aside cove molding.

If post between sidelite and door is two "mulled" jambs, remove casing there also.



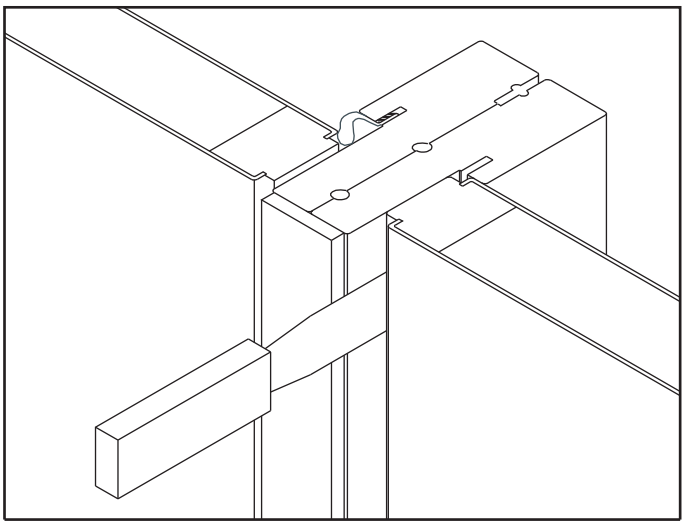


Tack on Protective Strips

Tack on softwood strips to protect jamb and mullion faces adjacent to sidelite slab.

Locate Fasteners

Find fasteners by running a putty knife blade in the margins and marking the locations.

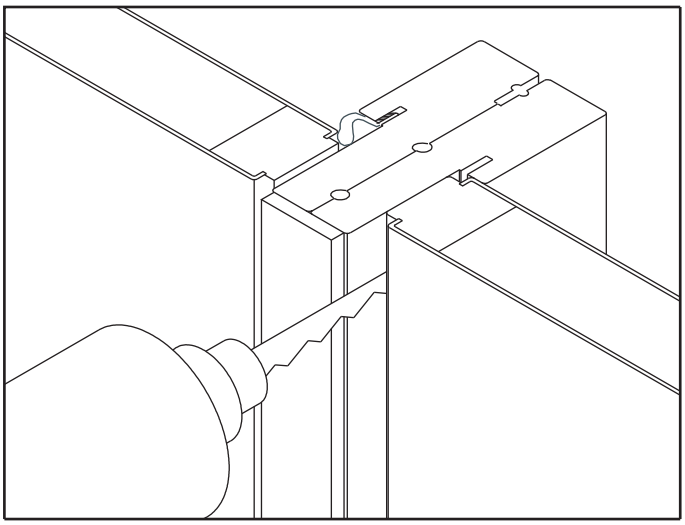


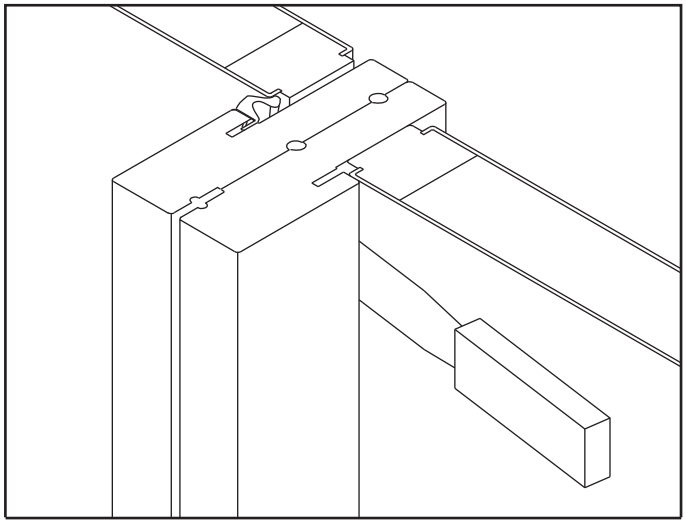
Cut Through Fasteners

Use a reciprocating saw with a metal cutting blade to cut through fasteners.

Run sawblade in margin.

Remove softwood strip.





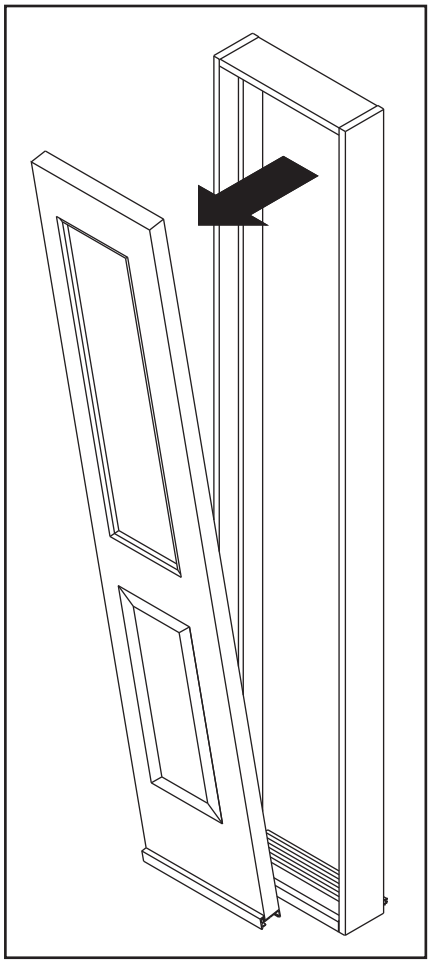
Cut Sealant Joints

On outside face of unit, use putty knife and cut through sealant joints along head and at sides.

Sidelite Slab Replacement

Remove Slab

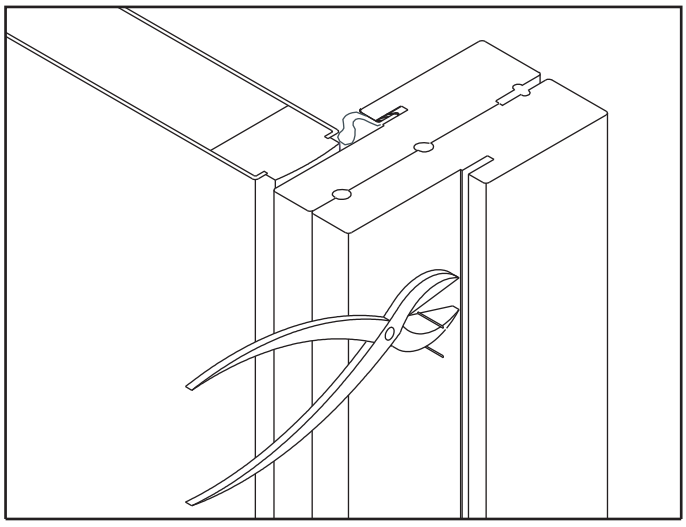
Push slab through from outside.

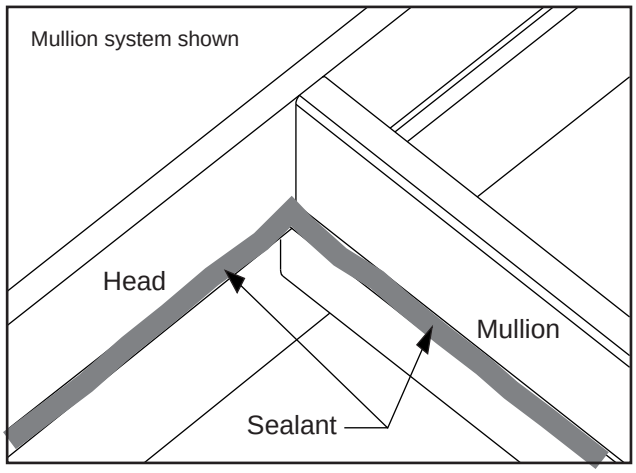


Prepare Opening for New Slab

Cut away and clean off all old caulking.

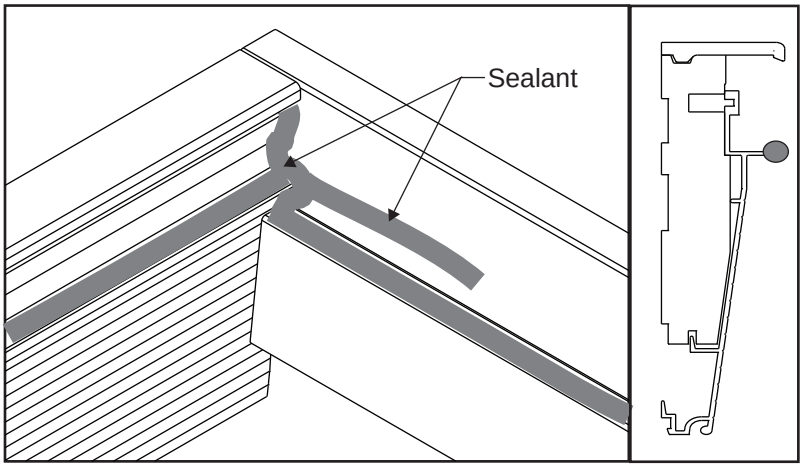
Cut away all old fasteners flush with Frame.





Seal Perimeter

Apply 1/4” bead of (Elastomeric or Polyurethane) sealant around entire perimeter on jamb and/or mullion stops.

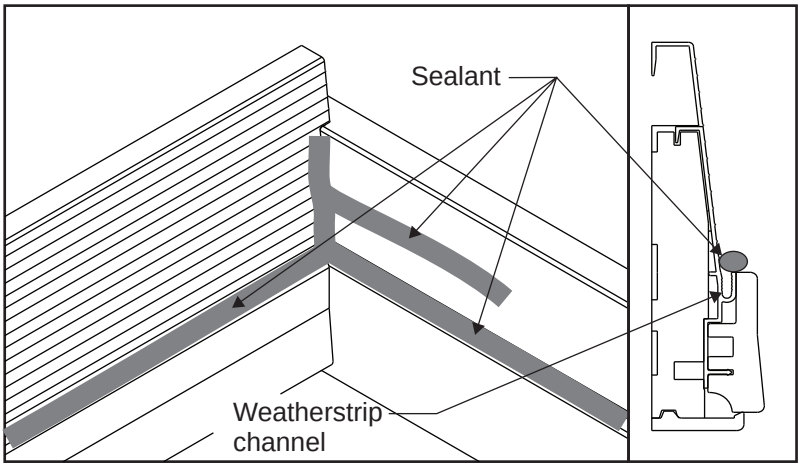


Inswing

Inswing Sill

Apply a generous amount of (Elastomeric or Polyurethane) sealant at joints where sill and jamb/mullion meet.

Apply a 1/4” bead of (Elastomeric or Polyurethane) sealant approximately 1” above weatherstrip kerf, 6” long.



Outswing

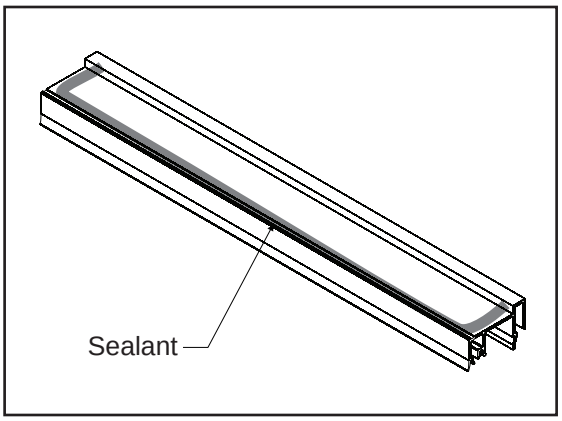
Outswing Sill

Apply a 1/4” bead of (Elastomeric or Polyurethane) sealant on saddle surface that contacts door face.

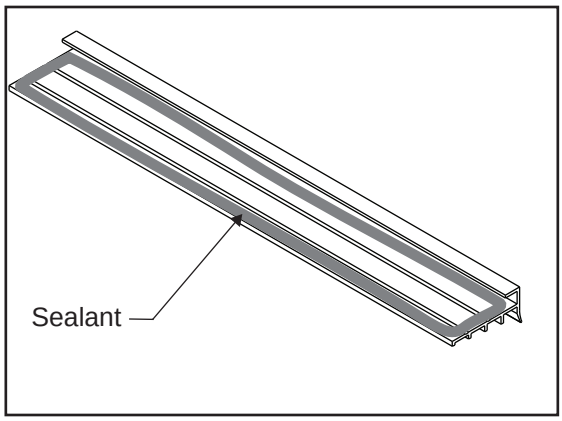
Apply a generous amount of sealant at joints where sill and jamb/mullion meet.

Apply a 1/4” bead of (Elastomeric or Polyurethane)sealant approx. 1” above weatherstrip kerf, 6” long.

Sidelite Slab Replacement



Inswing

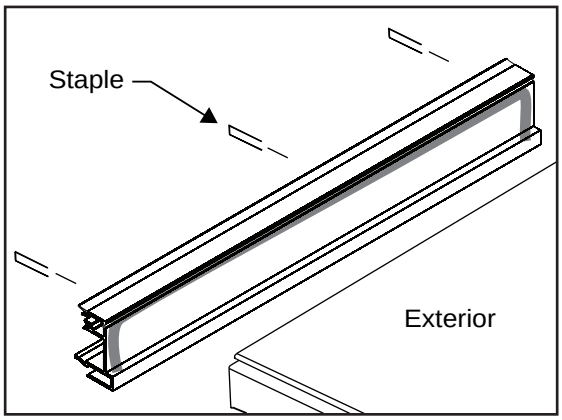


Outswing

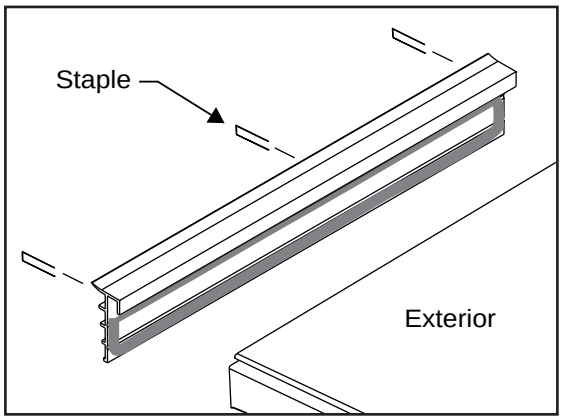
Caulk Door Bottom

Select a (Elastomeric or Polyurethane) sealant that provides excellent adhesion to both plastic and wood.

Apply a 1/4” bead of (Elastomeric or Polyurethane) sealant to top surface of door bottom.



Inswing

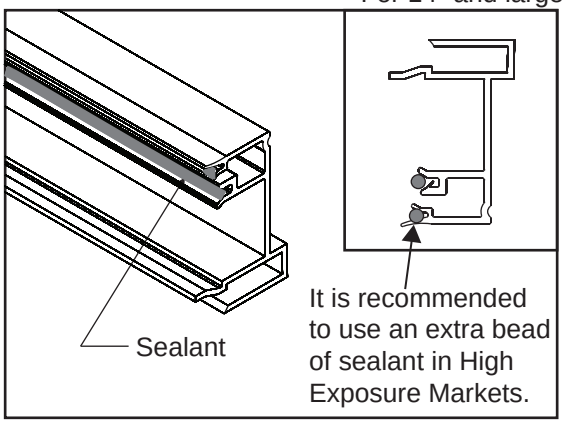


Outswing

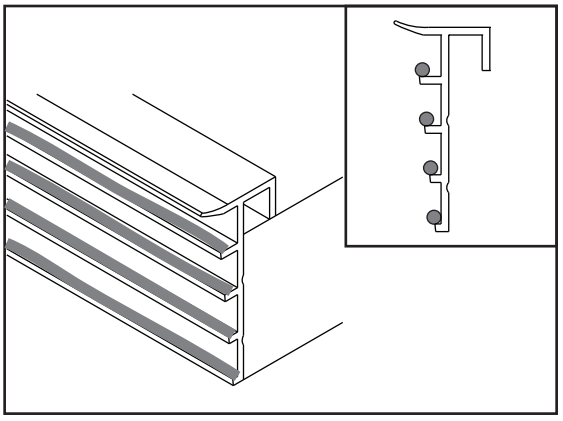
Attach Door Bottom

Fasten door bottom to sidelite slab with 1” staples or #8-15 x 3/4” Phillips dual angle wafer head type 17 gimlet point screws.

Note:
For 14” and larger slabs use 5 or more fasteners.



Inswing



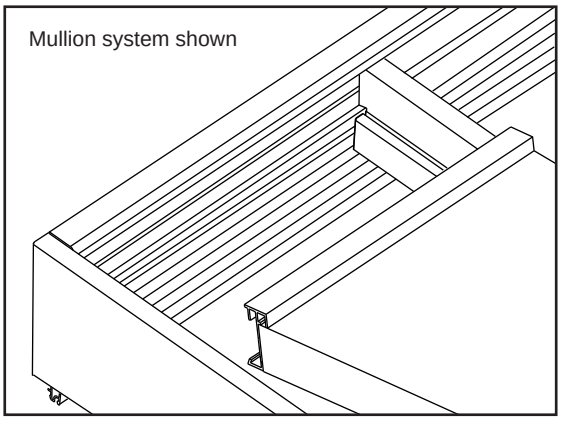
Outswing

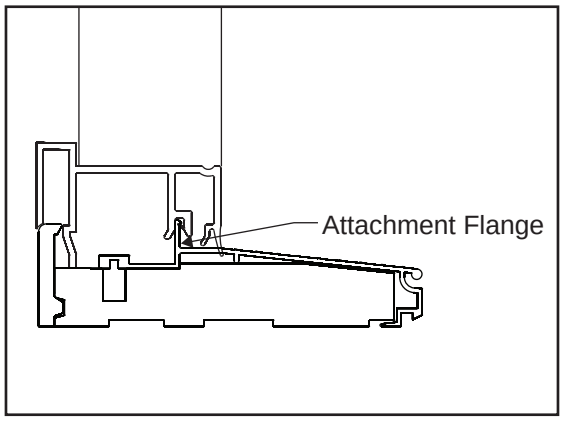
Caulk Door Bottom

Apply (Elastomeric or Polyurthane) sealant along channel on bottom of inactive door bottom.

Install New Sidelite Slab

Inswing





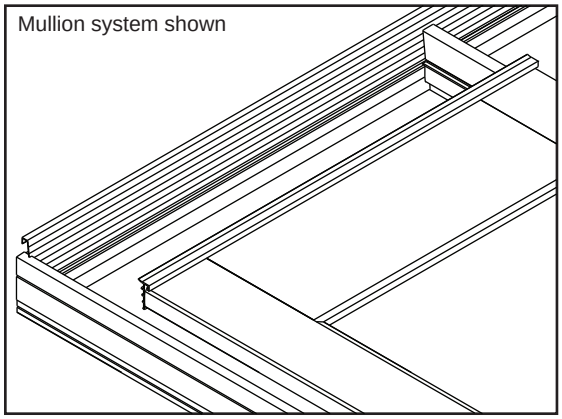
Install Sidelite Into Frame
Place sill end first, mating plastic bottom to sill, if necessary.

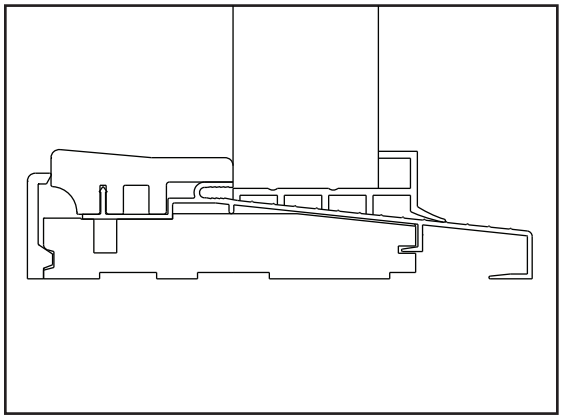
Use putty knife blade at top to aid insertion of slab in frame.

Sidelite panels are nominally 1/16” narrower than frame opening, for 1/32” clearance on each side.

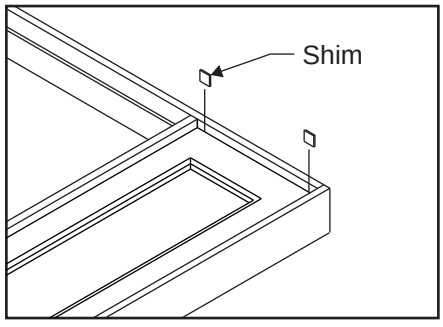
Inswing - Install inactive fixed panel by tilting bottom edge of panel so inactive door bottom aligns with sill attachment flange.

Outswing





Shim Inactive Fixed Panel



To ensure proper seal of inactive door bottom against sill, shim head of inactive fixed panel.

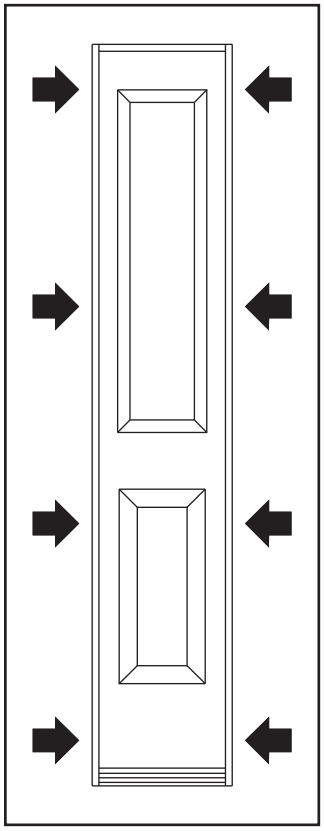
Locate shims near corners and slide shims between head jamb and inactive panel.

A putty knife may be required for this operation.

Be careful not to damage face of panel.

Fasten New Sidelite Slab

Space four fasteners along both sides, beginning 8” from top and 8” from bottom and evenly spaced.



“Mulled” Jamb Application

Drill angled pilot holes through frame.

Use 2” exterior grade screws and fasten frame to slab at pilot holes.

Sink screw head in so as not to interfere with mullion casing (applied later).

Mullion Application

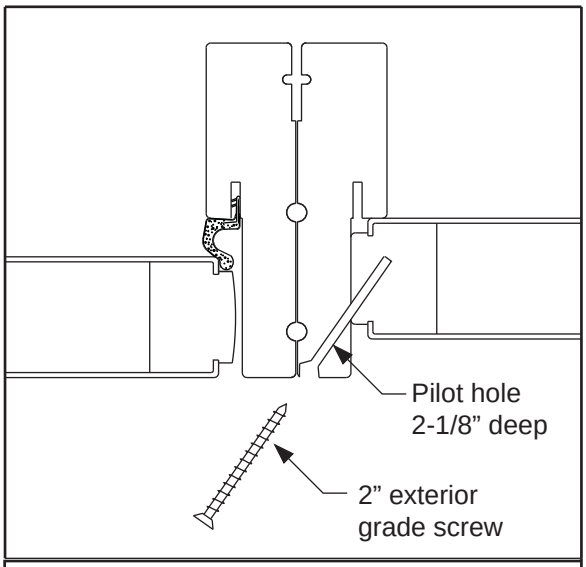
Fasten through mullion using 2” finishing nails or exterior grade screws.

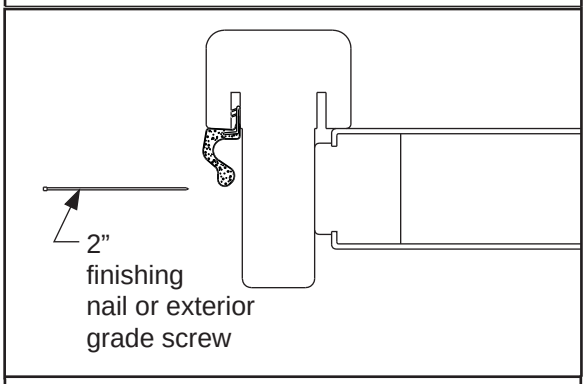
Outer Jamb Application (Applies to both "Mulled" Jamb & Mullion Applications)

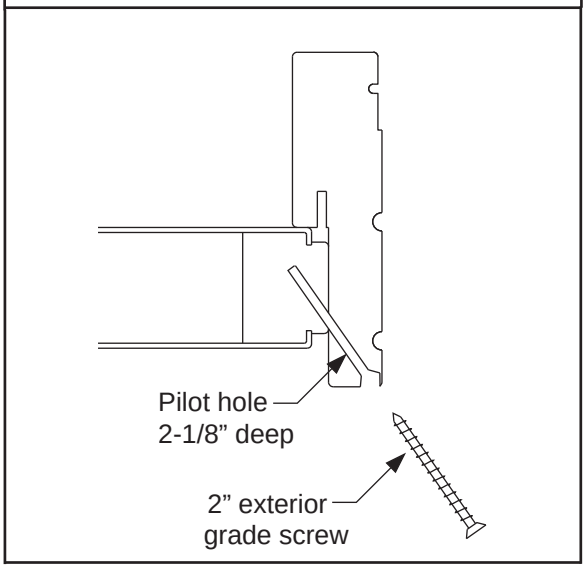
Drill angled pilot holes through frame.

Use 2” exterior grade screws and fasten frame to slab at pilot holes.

Sink screw head in so as not to interfere with door trim (applied later).



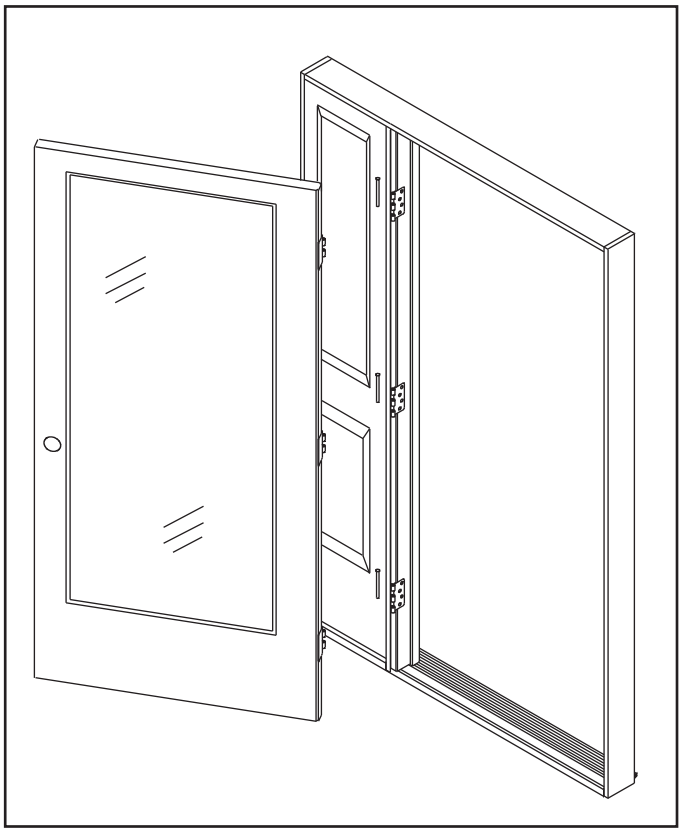


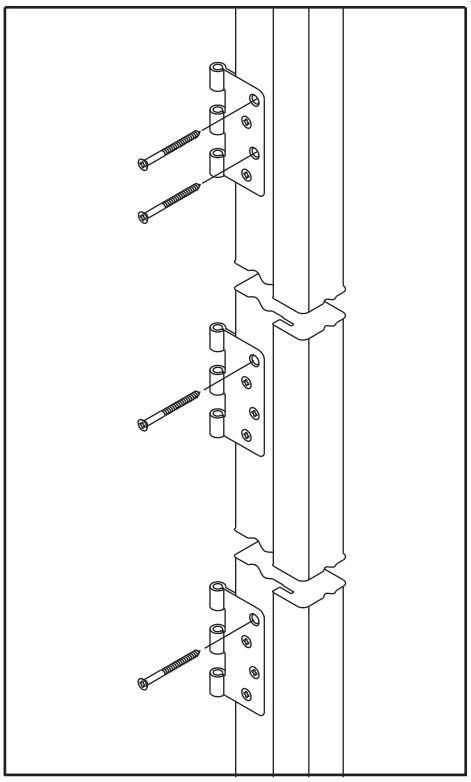


Remove Active Door

Unlatch door and remove hinge pins.

Carefully remove door and set aside.

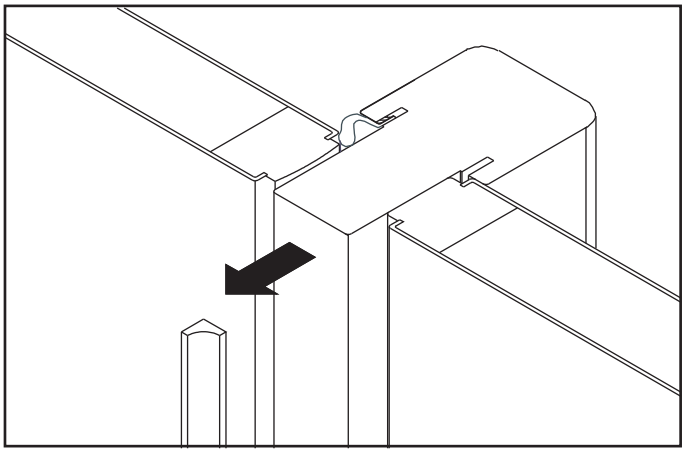




Remove Long Hinge Screws

NOTE: Inactive slab is fastened to mullion with four long (2-1/2") hinge screws.

Locate and remove long screws. Set aside.



Remove Cove Molding and Inside Vertical Casing if applicable

Remove and set aside cove molding from inactive panel and set aside.

If post is two "mulled" jambs, remove vertical casing.

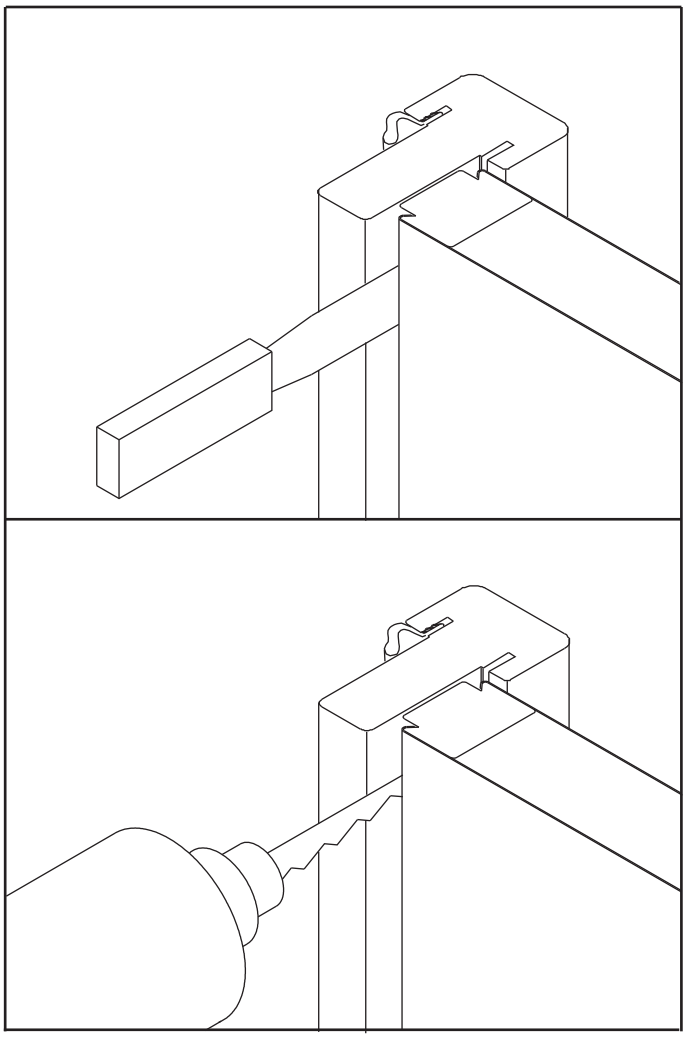
Mull Post Replacement

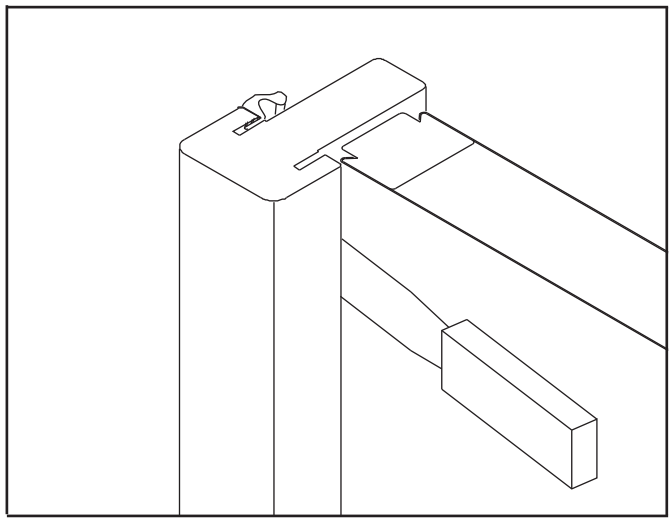
Remove Any Additional Mullion Side Fastening

Examine mullion carefully to ensure no other staples or screws were used to fasten slab.

Run a putty knife blade down margin between slab and mullion to double-check.

If any fasteners are found, using a reciprocating saw with a metal-cutting blade, slice through fasteners. Run sawblade in margin.



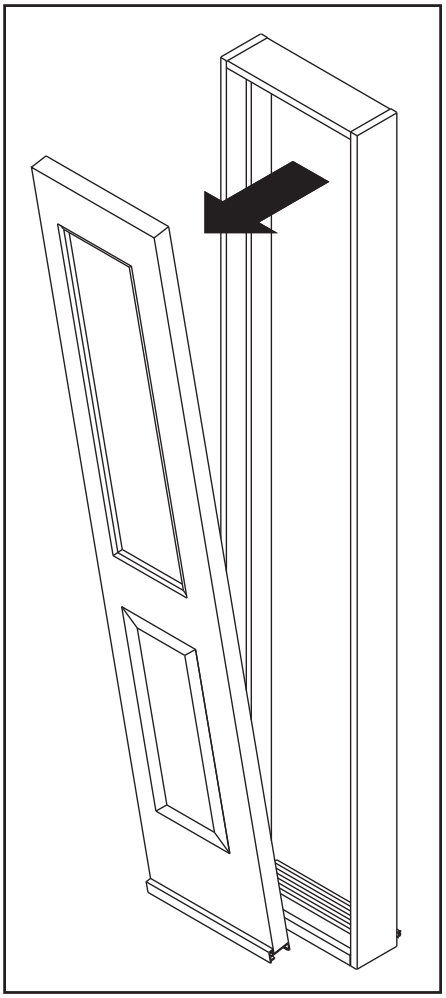


Cut Sealant Joints

On outside face of unit, use a putty knife and cut through sealant joints along head and at sides.

Remove Slab

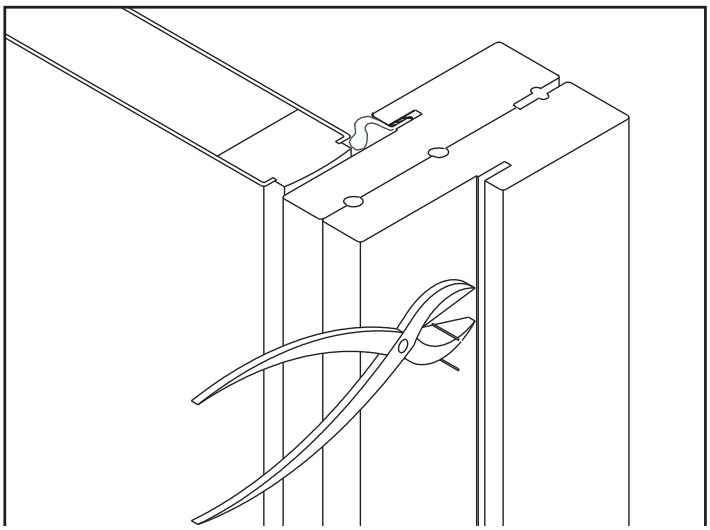
Push slab through from outside.



Prepare Opening for New Slab

Cut away and clean off all old caulking.

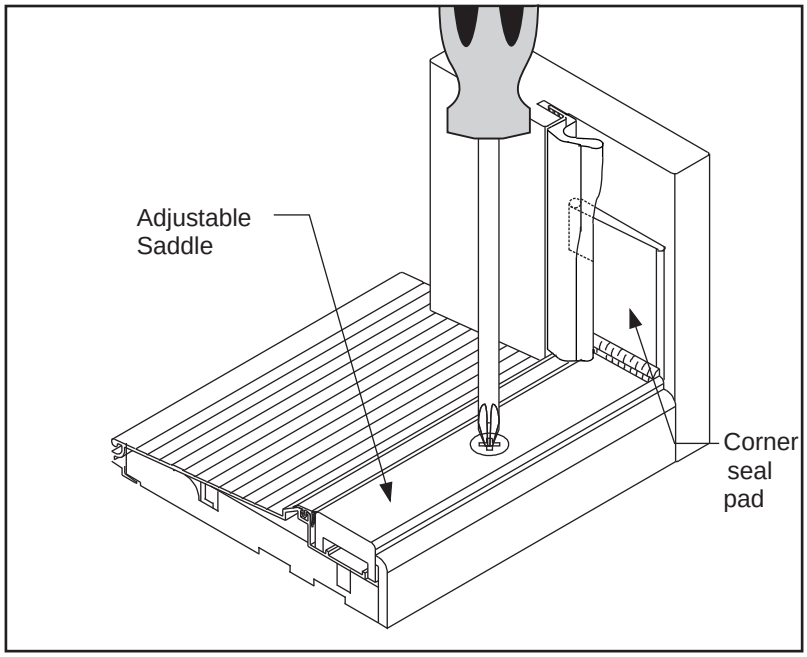
Cut away all old fasteners flush with Frame.

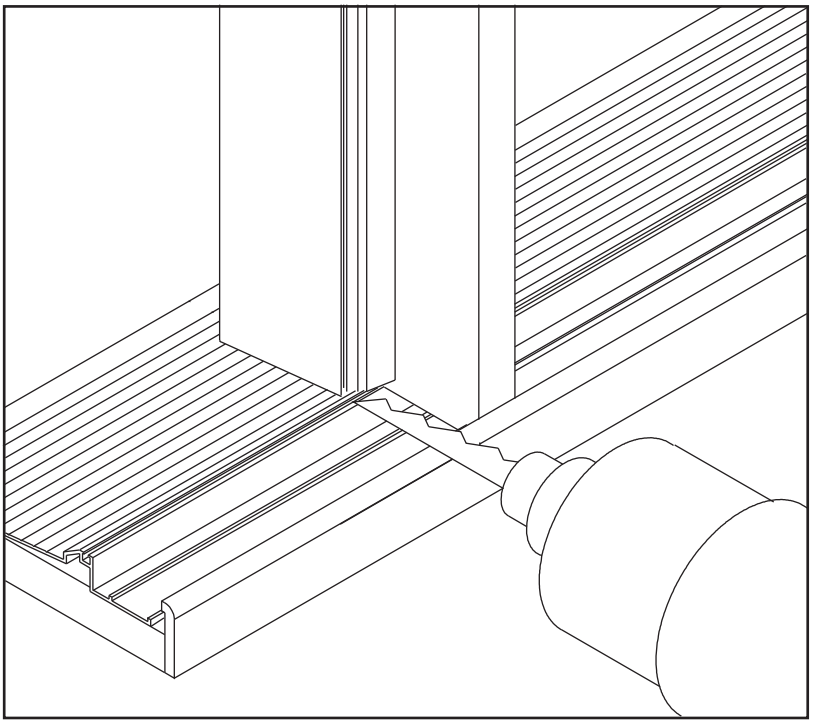


Mull Post Replacement

CAUTION:
Adjustable Sill Systems:

Remove corner seal pad and adjustable saddle from sill.





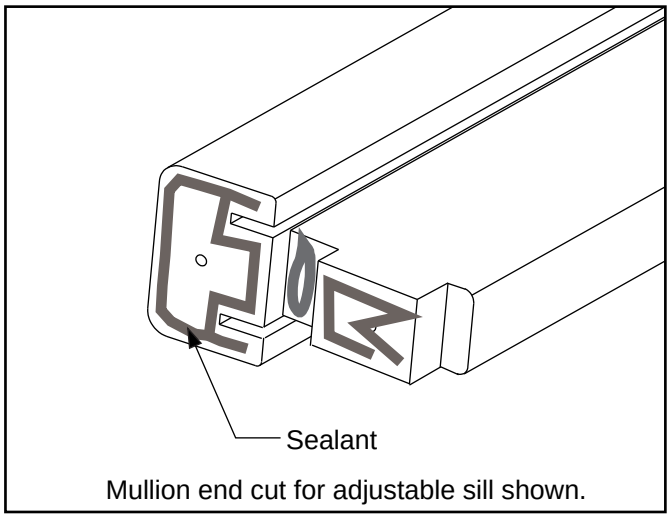
Cut mull post loose as close to head and sill as possible.

Use a chisel to split ends of mull post clean from head and sill mortise pockets.

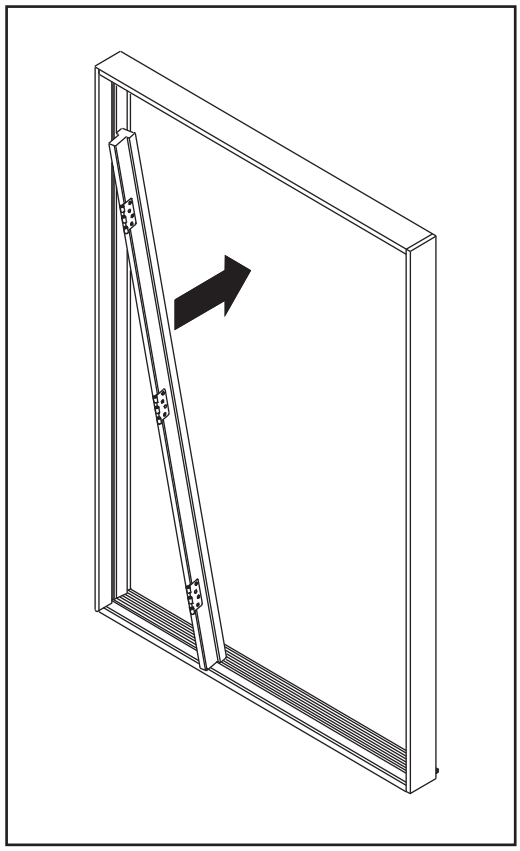
Cut away all old fasteners flush with head frame and sill substrate. Cut away and clean off all old caulk.

Install New Mull Post

Apply Elastomeric or Polyurethane sealant to bottom end of mull post and insert into sill detail.

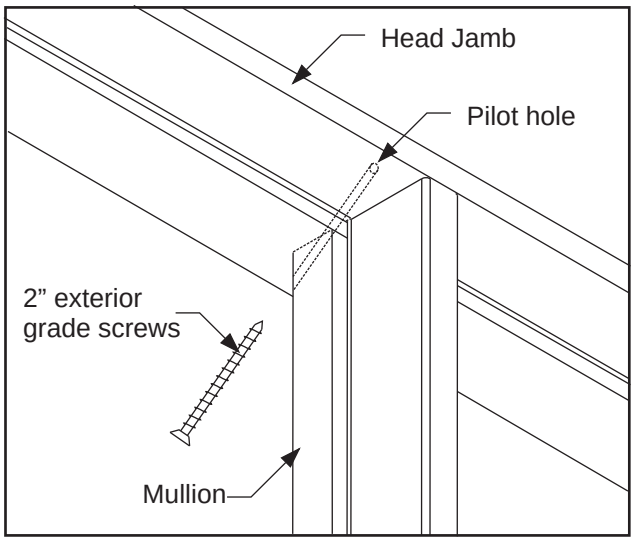


Mullion end cut for adjustable sill shown.

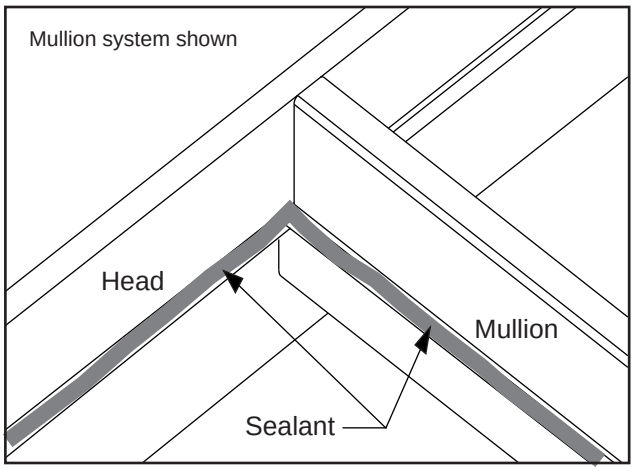


Slide head end of mull post into head mortise pocket.

Pre-drill holes on an angle through mull post and then secure with screws into sill and head frame.

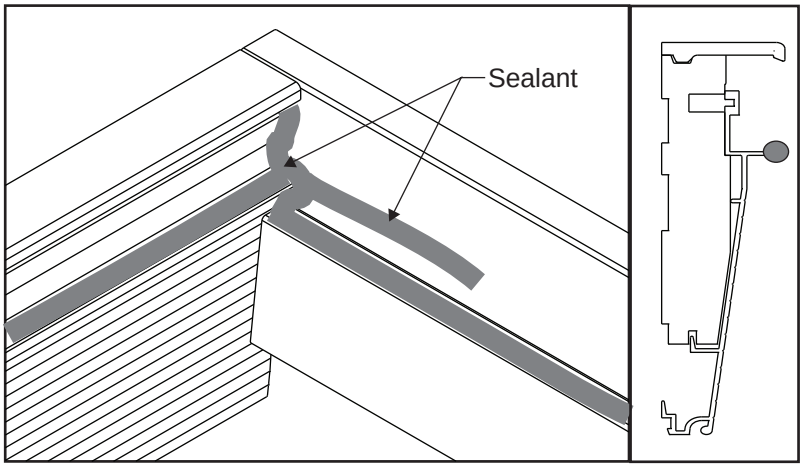


Mull Post Replacement



Seal Perimeter

Apply 1/4” bead of (Elastomeric or Polyurethane) sealant around entire perimeter on jamb and/or mullion stops.

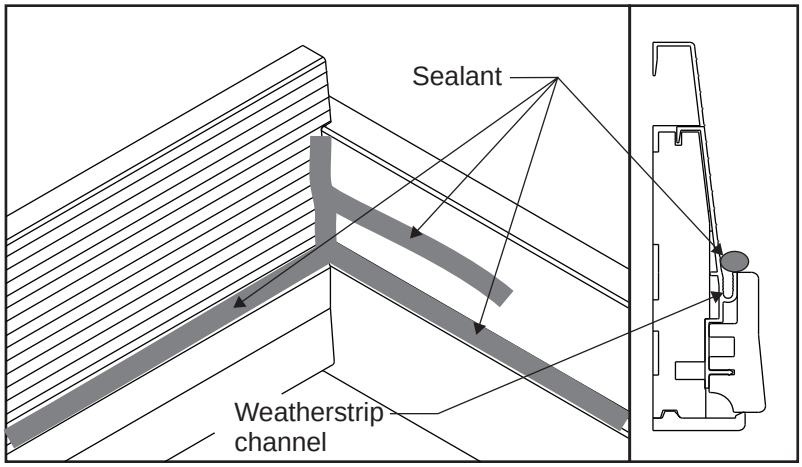


Inswing

Inswing Sill

Apply a generous amount of (Elastomeric or Polyurethane) sealant at joints where sill and jamb/mullion meet.

Apply a 1/4” bead of (Elastomeric or Polyurethane) sealant approximately 1” above weatherstrip kerf, 6” long.



Outswing

Outswing Sill

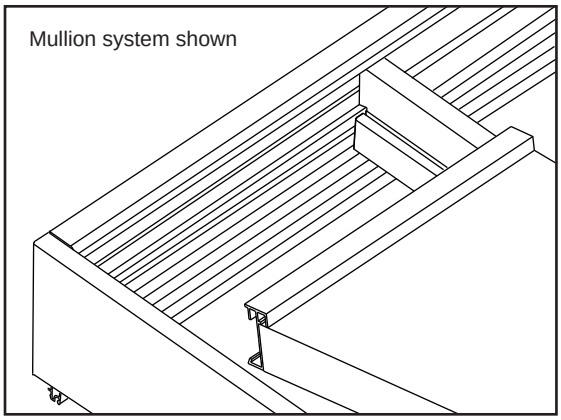
Apply a 1/4” bead of (Elastomeric or Polyurethane) sealant on saddle surface that contacts door face.

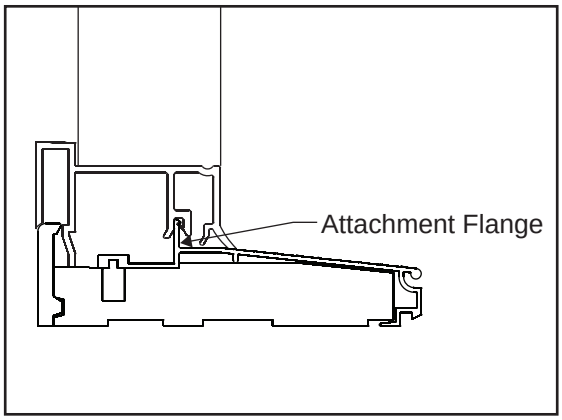
Apply a generous amount of sealant at joints where sill and jamb/mullion meet.

Apply a 1/4” bead of (Elastomeric or Polyurethane)sealant approx. 1” above weatherstrip kerf, 6” long.

Install Sidelite Into Frame

Inswing





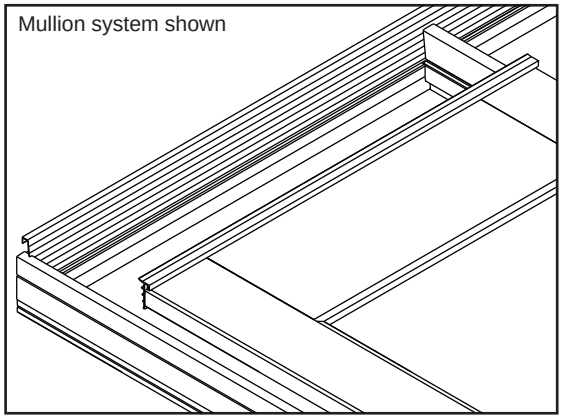
Install Sidelite Into Frame
Place sill end first, mating plastic bottom to sill, if necessary.

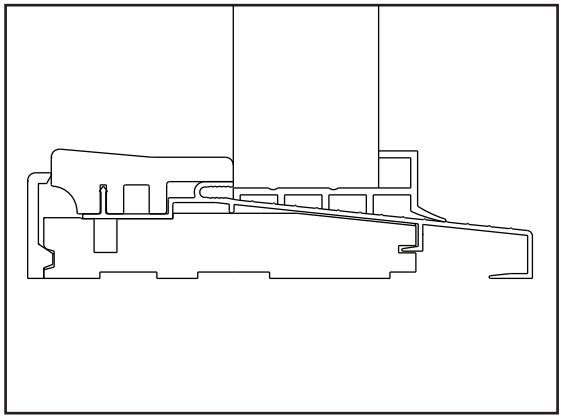
Use putty knife blade at top to aid insertion of slab in frame.

Sidelite panels are nominally 1/16” narrower than frame opening, for 1/32” clearance on each side.

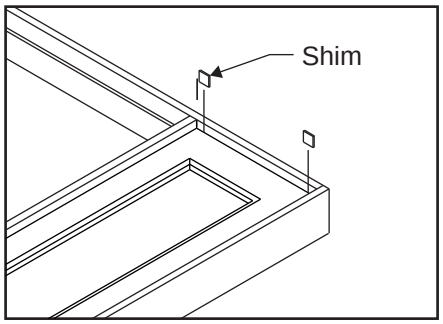
Inswing - Install inactive fixed panel by tilting bottom edge of panel so inactive door bottom aligns with sill attachment flange.

Outswing





Shim Inactive Fixed Panel



To ensure proper seal of inactive door bottom against sill, shim head of inactive fixed panel.

Locate shims near corners and slide shims between head jamb and inactive panel.

A putty knife may be required for this operation.

Careful not to damage face of panel.

Mull Post Replacement

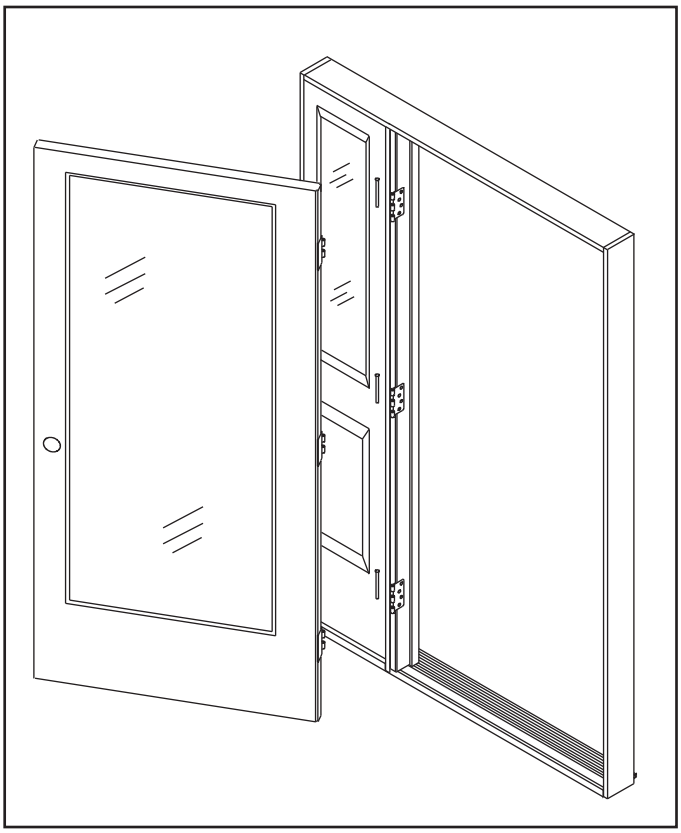
Finish Up

Replace jamb casing.

Replace active slab.

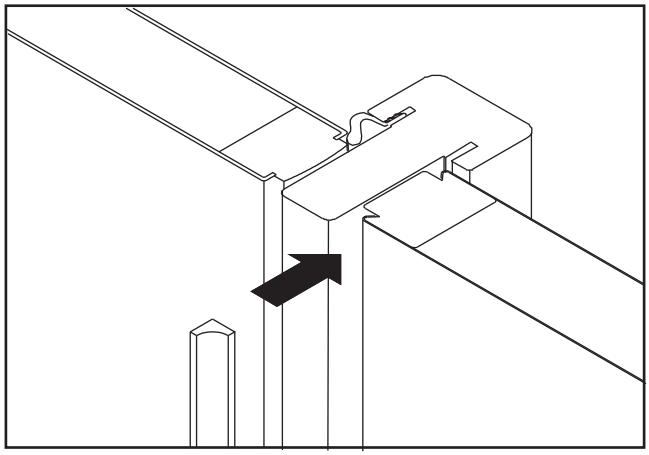
Examine exterior joints between inactive slab, frame and sill.

Apply additional Elastomeric or Polyurethane sealant at joints if required.



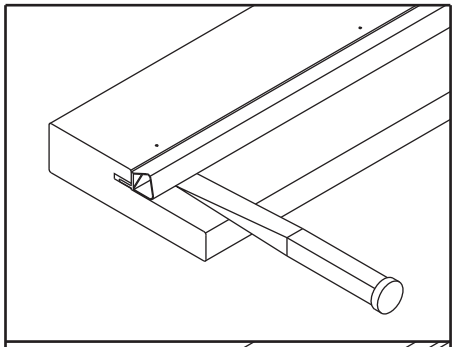
Re-apply Cove Molding and Inside Vertical Casing if applicable

Re-apply cove molding to the new sidelite Slab unit.

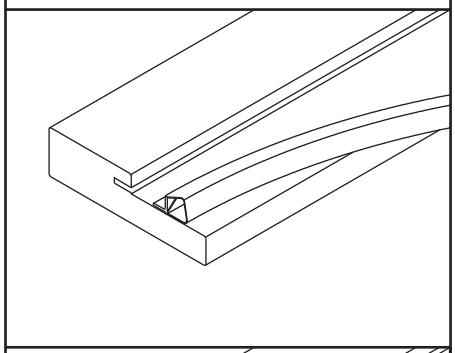


Nail-In Weatherstrip

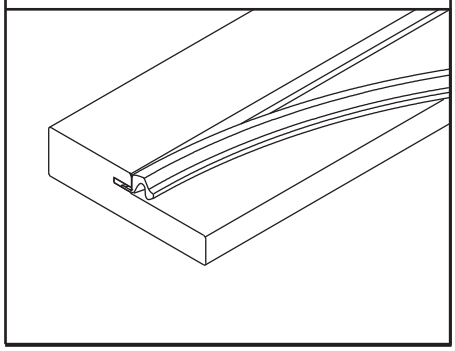
Use a sharp chisel or putty knife to break nails between weatherstip and jamb.

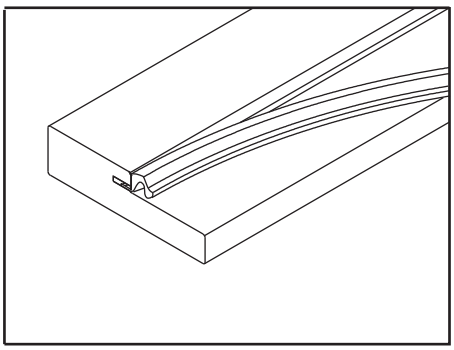


Remove weatherstrip.



Apply compression weatherstrip to jamb.





Press-In Weatherstrip

Remove existing weatherstrip from jambs.

Replace with new compression weatherstrip.

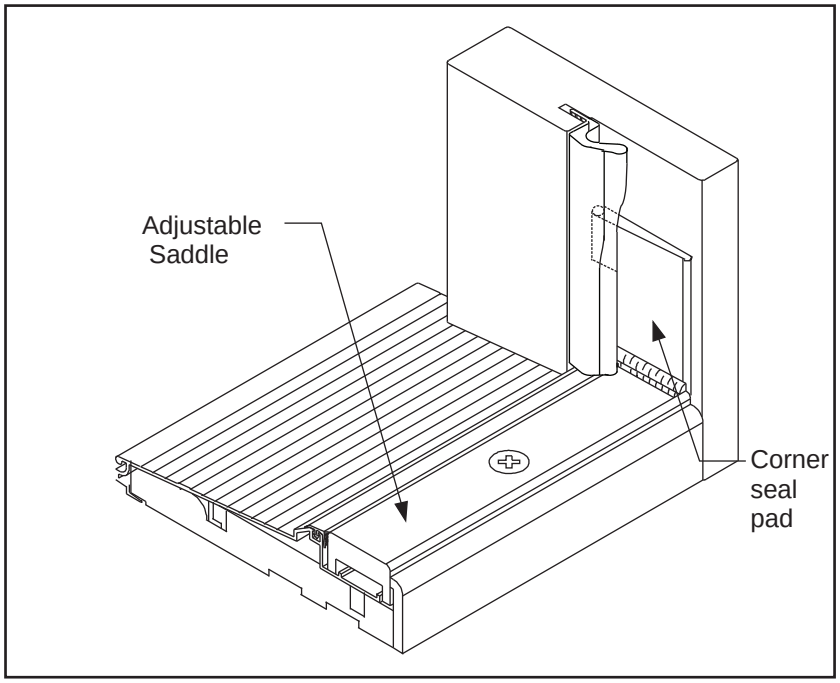
Adjustable Sill Threshold Replacement

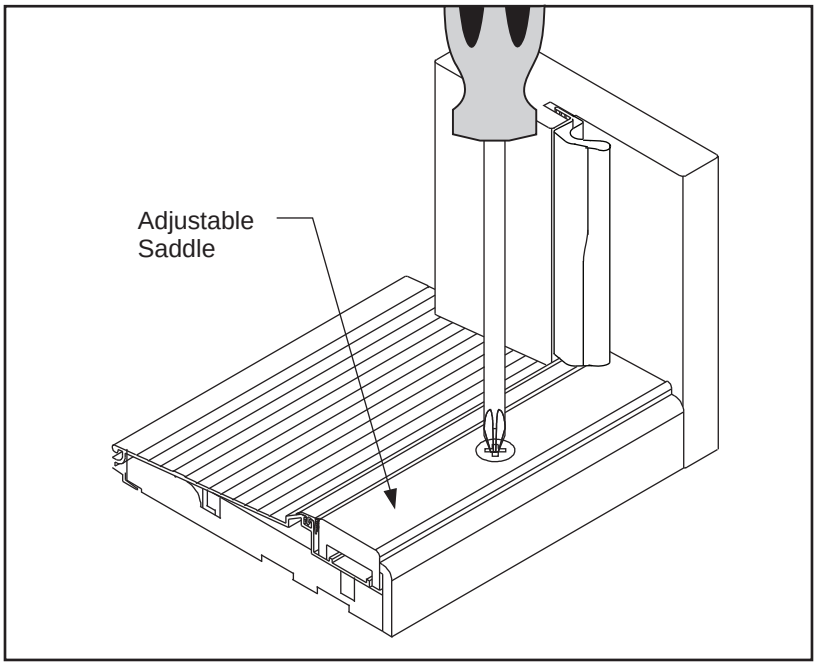
Remove Corner Seal Pads

Break any sealant bonds.

Remove corner seal pads.

Clean off excess sealant.





Remove Existing Threshold

Unscrew adjustment screws to remove threshold.

Carefully remove sill gasket from aluminum channel after adjustable threshold is removed.

Adjustable Sill Threshold Replacement

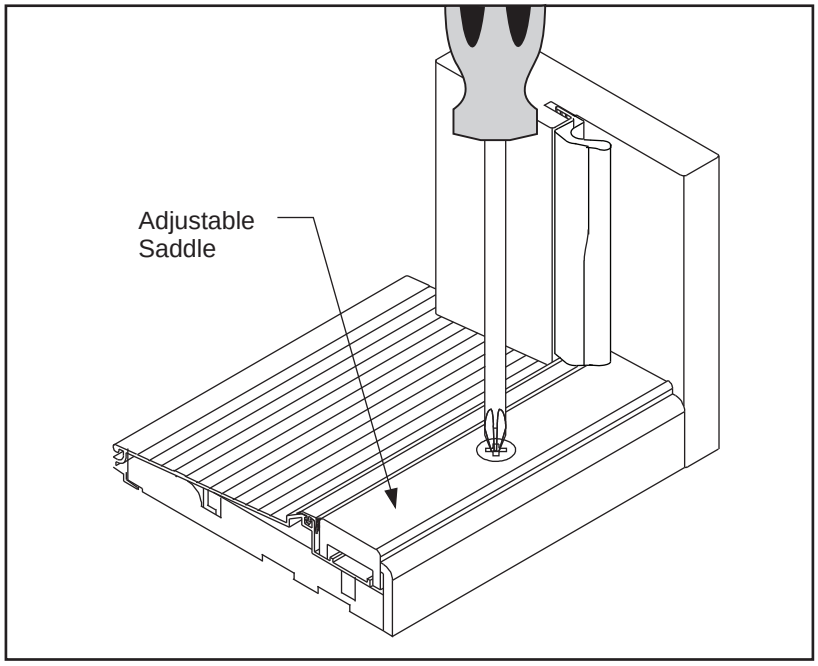
Fasten Threshold to Sill

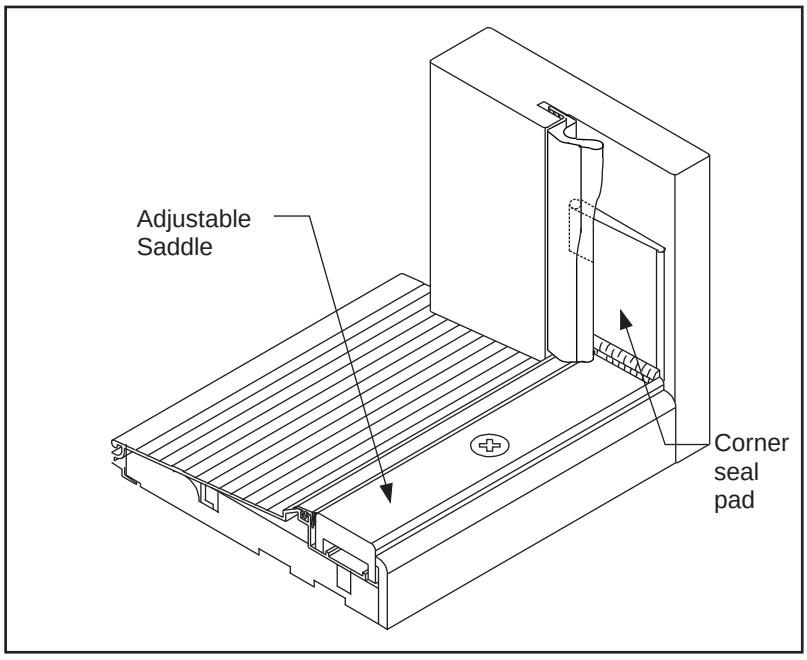
NOTE: It may be necessary to trim new threshold so it fits properly. Trim both ends equally.

Insert threshold and screw down adjustment screws.

Insert sill gasket into aluminum channel after adjustable threshhold has been installed.

Make any sill adjustments, if necessary, for a proper seal.





Apply Corner Seal Pads

After final threshold adjustments, apply a bead of Elastomeric or Polyurethane sealant at sill jamb joint

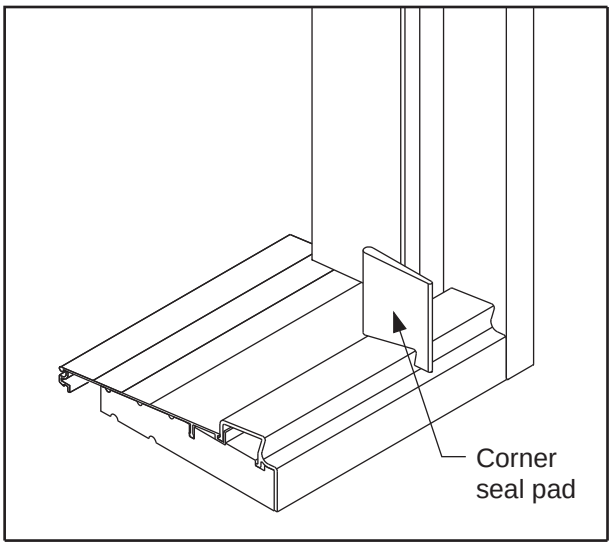
Remove paper backing from pad and apply pad to jamb with bottom edge down against sealant, tucking behind weatherstrip.

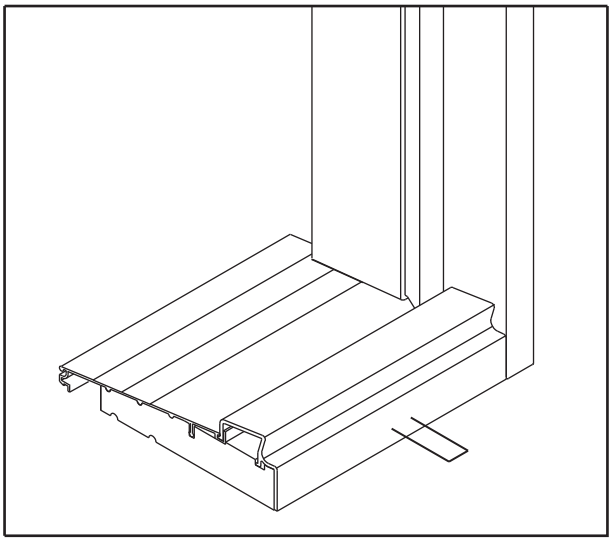
Remove Corner Seal Pads

Break any sealant bonds.

Remove corner seal pads.

Clean off excess sealant.



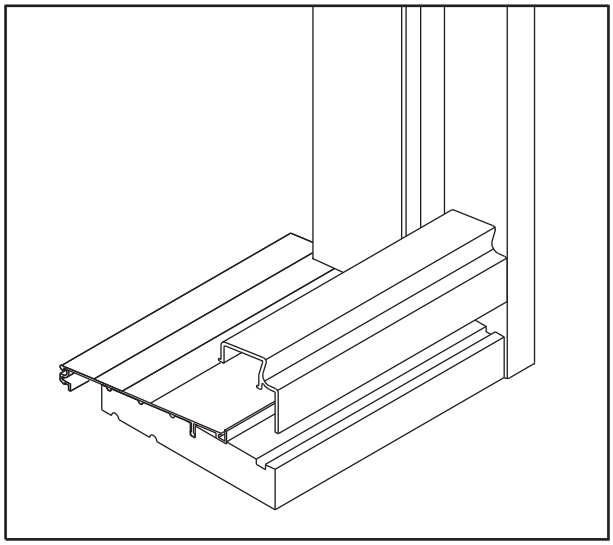


Remove Staples and/or Screws

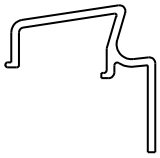
Pull out staples that fasten vinyl threshold and any screws that may be fastened through the top of the threshold.

Pull off Vinyl Threshold

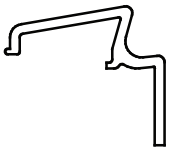
Carefully remove vinyl threshold so not to damage aluminum approach. It may be necessary to pry threshold off with a screw driver.



Replacement Vinyl
(Woodgrain)
3/0 - RPSLIV397W
6/0 - RPSLIV697W
(for Book and U1 sizes)



Replacement Vinyl
3/0 - RPSLIV393
6/0 - RPSLIV693
(for Book and U1 sizes)

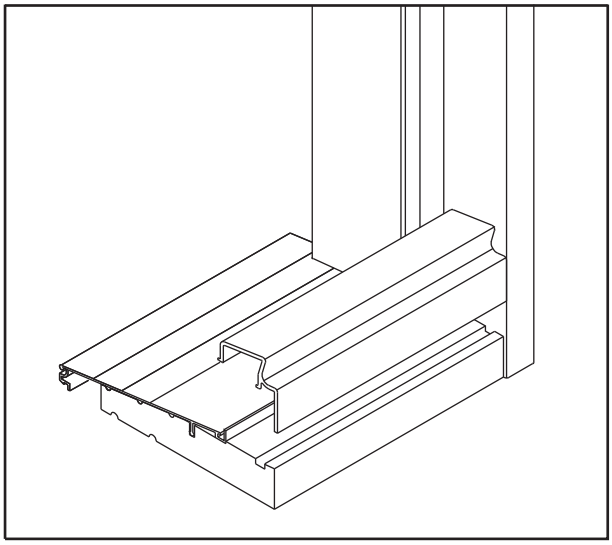


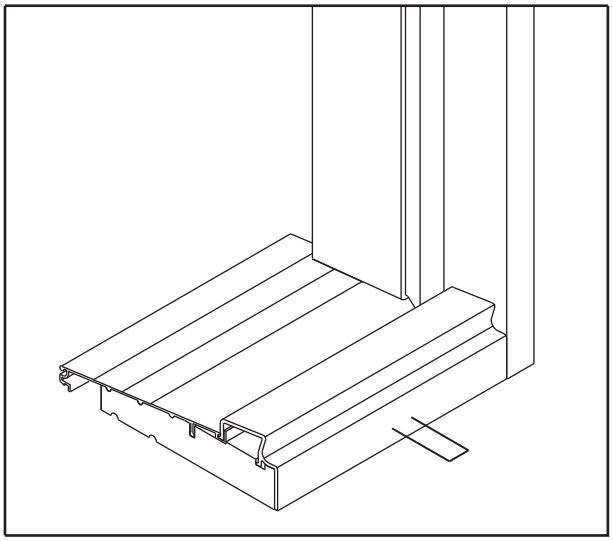
Replacement Vinyl
3/0 - ISL3FCAP330-R
6/0 - ISL3FCAP470-R
(for U1REV size)

Install Vinyl Threshold

NOTE: It may be necessary to trim new threshold so it fits properly.

Hook vinyl nose into aluminum groove and rotate down around wood substrate.





Fasten Threshold

With threshold in place, fasten back face down with staples.

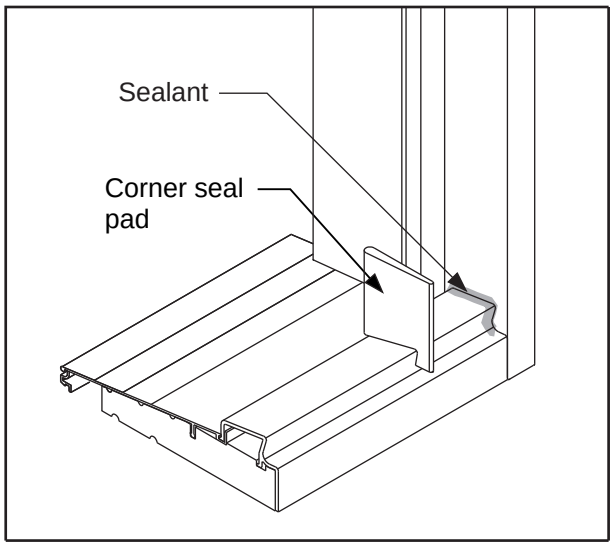
Apply Corner Seal Pads

Place a bead of Elastomeric or Polyurethane sealant at corners where threshold meets jambs.

Remove paper backing from pad.

Position pad tightly to threshold and flush with inside edge of threshold, tucking behind weather-strip.

Apply one pad at each side.



Doorlite Glass and Frame Replacement

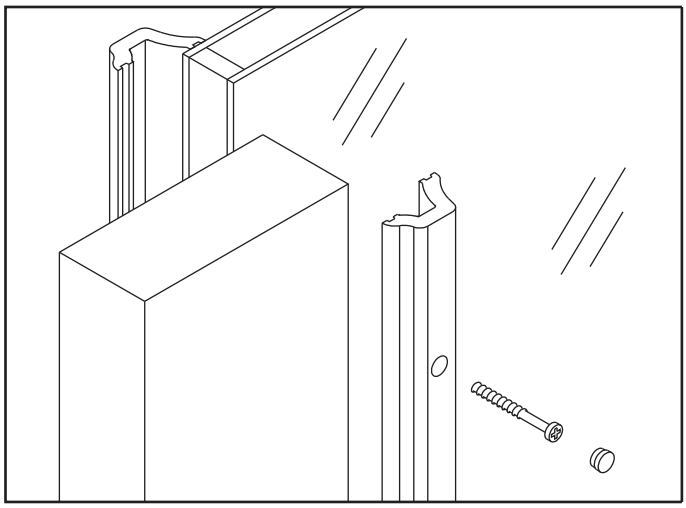
Remove Door from System

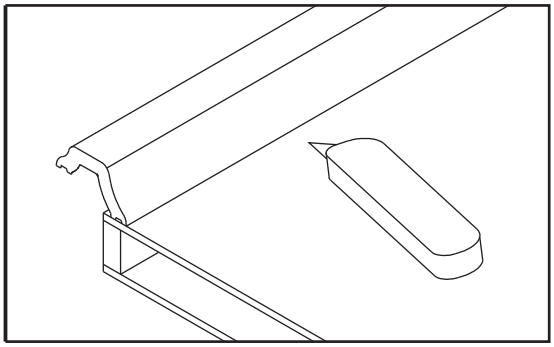
Place in horizontal position before removing lite for safety purposes.

Remove plugs and screws from doorlite to separate lite frames.

Save plugs and screw for re-use.

Remove doorlite from door or sidelite.





Remove Glass from Doorlite Frame

Use a heat gun or warm air from a hair dryer to soften glazing compound.

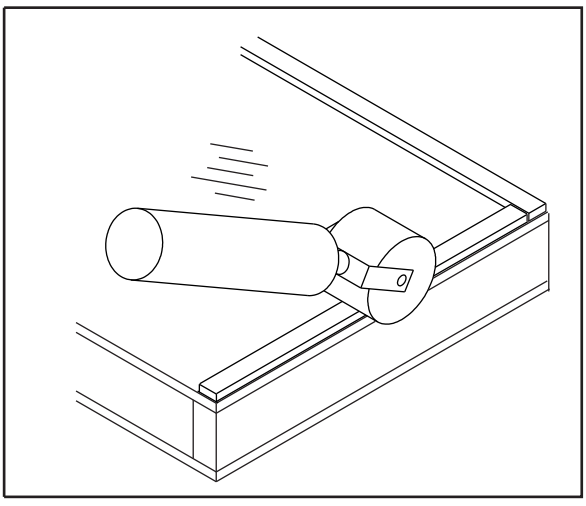
Remove glass by cutting through glazing sealant with utility knife.

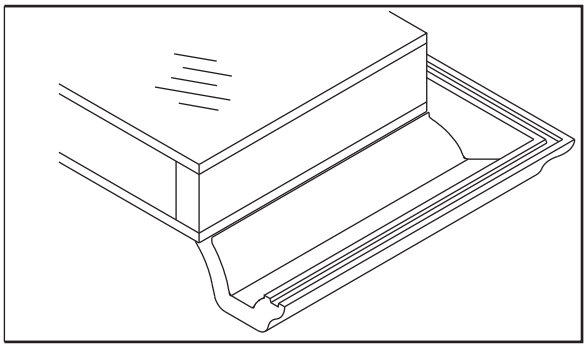
Scrape off glazing sealant as much as possible from glass and frame. Remove the remaining residue ***from glass only*** with mineral spirits and glass cleaner.

Replace Glass and/or Frame

NOTE: Be sure surfaces are clean and dry before applying sealant.

Apply foam glazing tape (Part #RPGZGS) directly to the glass edges, taking care to make tight butt joints at corners. **Do not overlap. Do not stretch.**





Align and insert glass onto exterior frame, pressing in place to ensure a good bond.

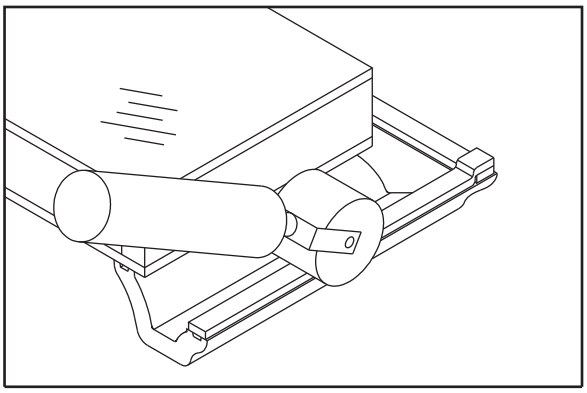
Apply Glazing Tape (if damaged)

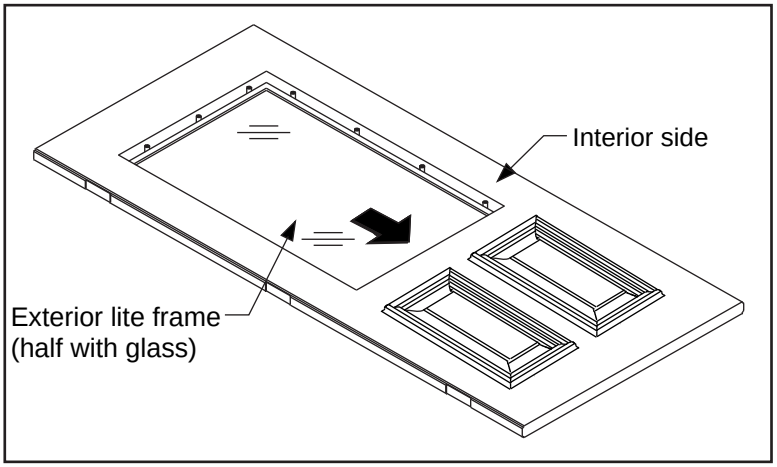
Replace existing foam glazing tape if damaged. (Part # RPGLZTP)

DO NOT stretch.

Overlap at corners.

Press on lightly with fingers. Then with a roller tool, fully bond gasket using firm pressure.





NOTE: When installing multiple lites, use a straight edge to check alignment of lites before securing in place.

Position Lite into Opening

Place lite against bottom edge of cutout to prevent shifting.

Center lite in cutout side-to-side.

Insert Interior Frame and Drive Screws with #2 Phillips Bit

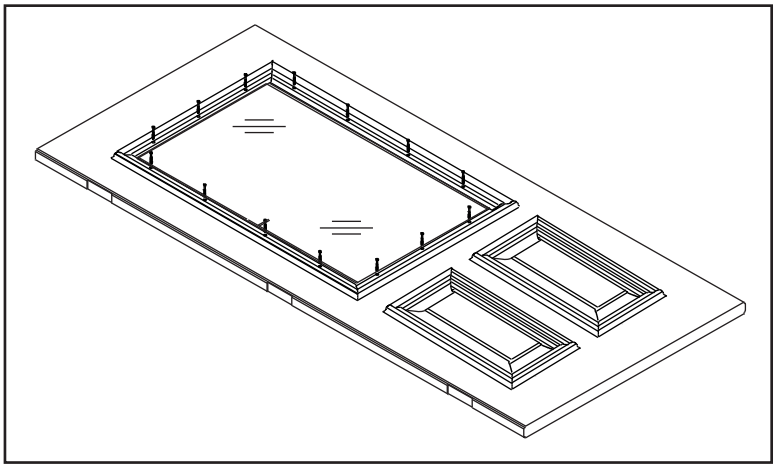
Ensure correct alignment of screw bosses.

Ensure frame edges are well-seated.

Drive screws.

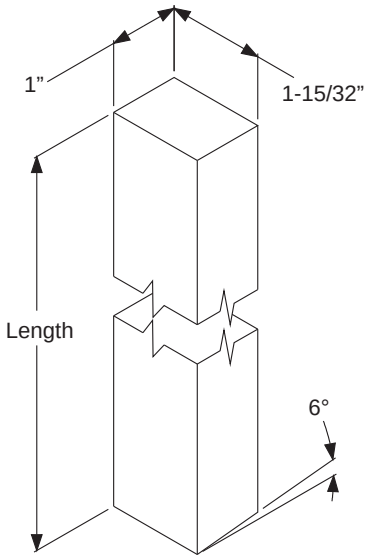
Press-fit screw plugs into frame holes.

Re-hang door.

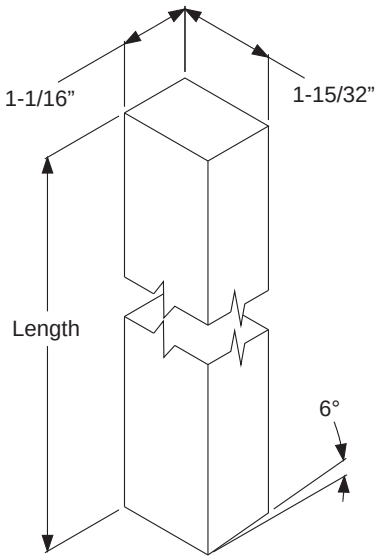


Storm Door Strip Application (Continuous Sill)

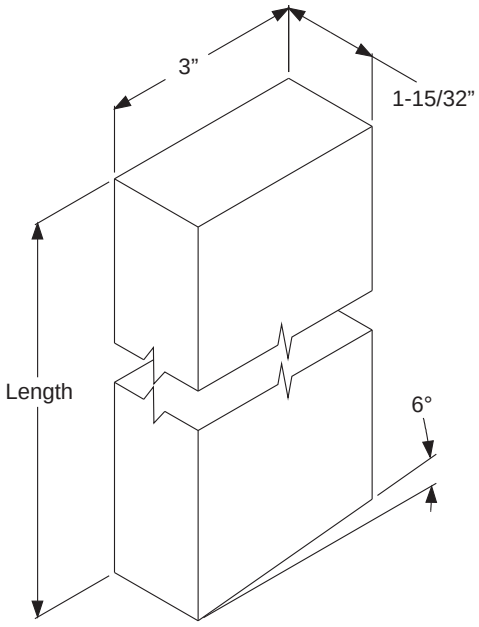
Make Storm Door Adapter Strips



4-9/16" Base Adapter Strip



Face Adapter Strip



6-9/16" Base Adapter Strip

4-9/16" Table of Lengths

PLATFORM	UNIT SIZE	Face Adapter	Base Adapter
BOOK (BK)	6/6	78.169	77.557
	6/8	80.717	80.105
	7/0	84.717	84.105
	8/0	96.717	96.105
HB / UI	6/6	77.960	77.348
UI REV (UI)	6/8	80.311	79.699
	7/0	84.311	83.699
	8/0	96.311	95.699
HYBRID (HB)	6/8	80.514	79.902
	7/0	84.514	83.902
	8/0	96.514	95.902

Instructions

One set is used at each mullion.
(2 pieces - 1 face and 1 base adapter)

Face Adaptor - Use standard inswing composite mull casings. Cut to lengths as shown, and bevel one end as shown.

4-9/16 Base Adaptor - Use standard inswing composite mull casings. Machine width, cut to length, and bevel one end as shown.

6-9/16 Base Adaptor - Purchase 6-9/16 composite storm door base adaptor. Cut to length, and bevel one end as shown.

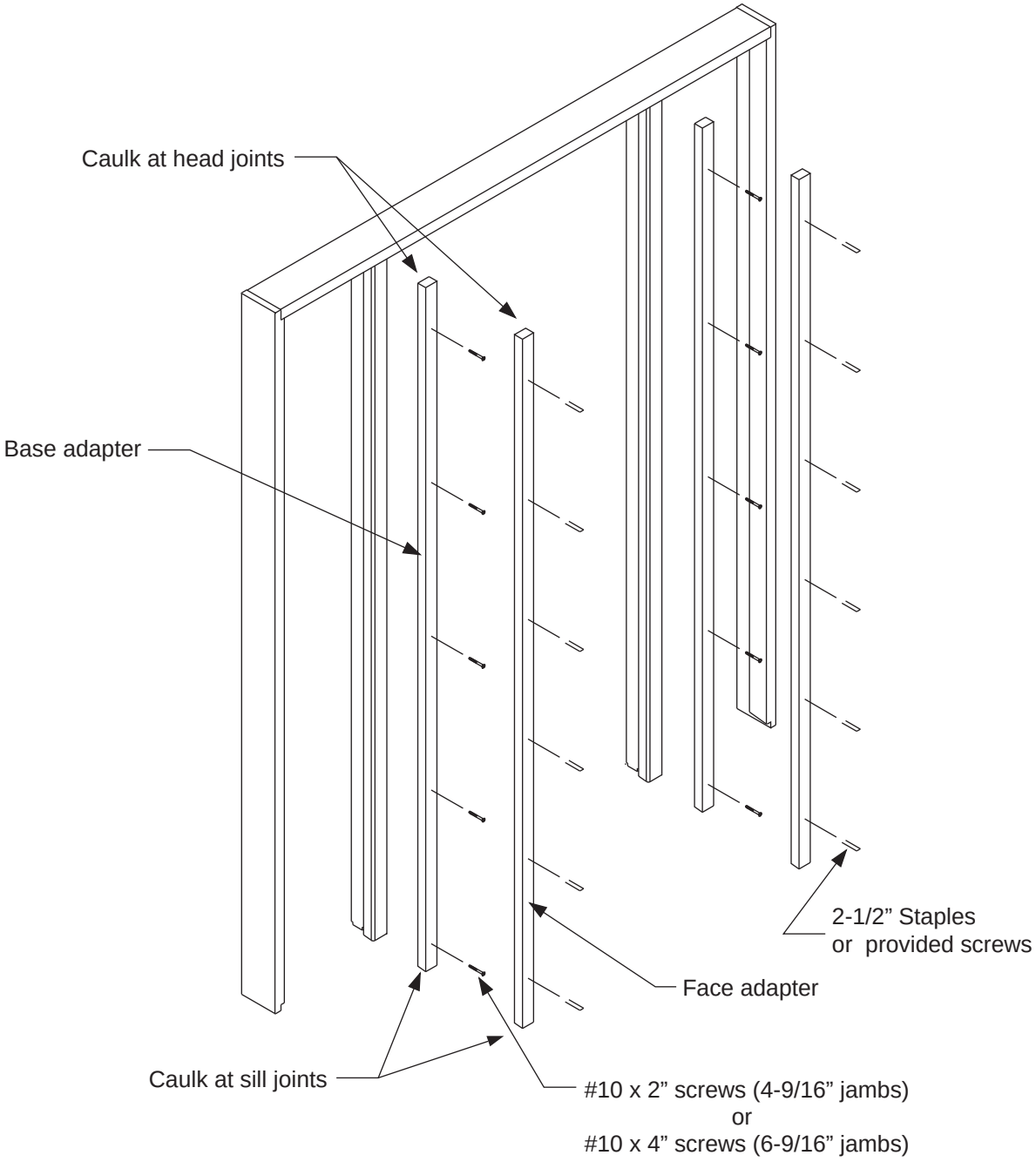
6-9/16" Table of Lengths

PLATFORM	UNIT SIZE	Face Adapter	Base Adapter
BOOK (BK)	6/6	78.379	77.767
	6/8	80.927	80.315
	7/0	84.927	84.315
	8/0	96.927	96.315
HB / UI	6/6	78.170	77.558
UI REV (UI)	6/8	80.521	79.909
	7/0	84.521	83.909
	8/0	96.521	95.909
HYBRID (HB)	6/8	80.724	80.112
	7/0	84.724	84.112
	8/0	96.724	96.112

Apply Storm Door Adapter

First fasten base adapter strips using #10 x 2” screws for 4-9/16” jambs or #10 x 4” screws for 6-9/16” jambs as shown.

Apply face adapter strips directly over base adaptors using 2-1/2” staples. If installing with provided hidden fastener system, install with provided screws..



Sill removed for clarity.

7/8” Astragal Spring Clip Replacement Instructions

The following instructions are for use at the job site.

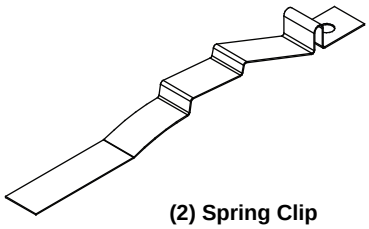
The hardware pack contains all the necessary hardware and fasteners needed to complete this installation.

Read all instructions before starting.

THERMA-TRU DOORS

Rev. A 2/4/16 P/N: SPRREPLINST-R

Pack Contents



(2) Spring Clip

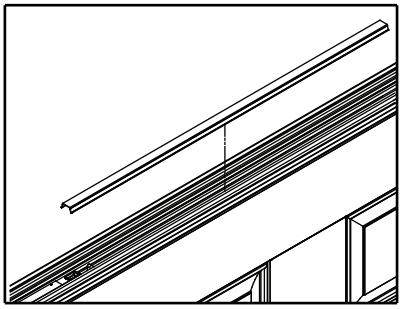
.050” Hex Key

THERMA-TRU DOORS

1750 Indian Wood Circle
Maumee, Ohio 43537
419-891-7400

1 REMOVE TRIM STRIP

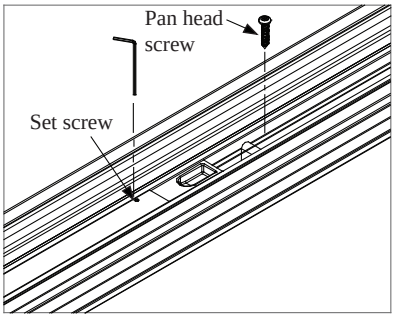
With the astragal slide bolt assembly in the fully engaged position, remove the trim strip closest to the spring clip by pulling it out by hand.



2 REMOVE DAMAGED SPRING CLIP

Loosen the set screw closest to the spring clip using the provided hex key. Remove the pan head screw holding the spring clip in place.

Remove and discard the damaged spring clip.

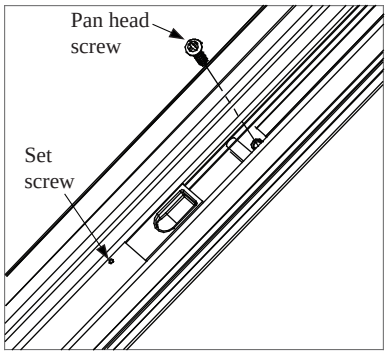


3 INSTALL NEW SPRING CLIP

Insert the new spring clip under the slide bolt assembly, making sure to slide under the set screw.

Align the hole in the spring clip with the hole in the astragal. Fasten in place with the pan head screw.

Tighten the set screw to hold the other end of the spring clip for proper operation. This step is critical to the performance of the astragal in the field.



4 REINSTALL TRIM STRIP

Locate the trim strip to align with the strike plate, then press the strip into place by hand.

Check the operation of the slide bolt.