

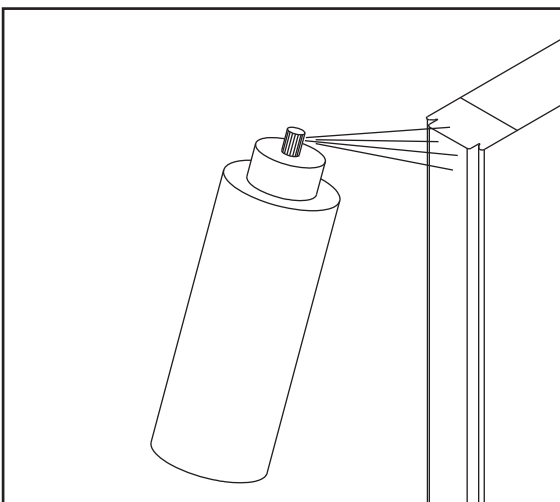
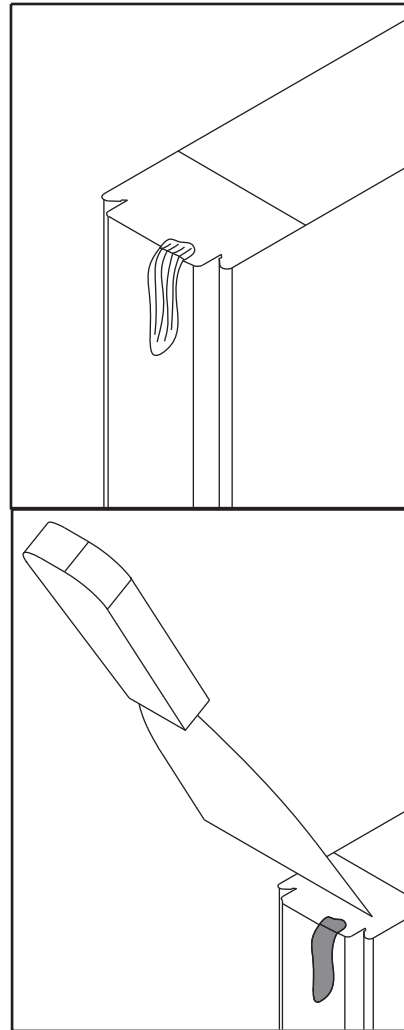
Repairing Therma-Tru Door Slabs ----- 5.3
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Stile Chips

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

**Repair
and
Replace**

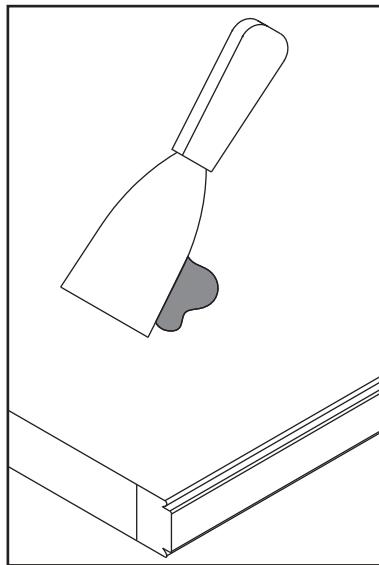
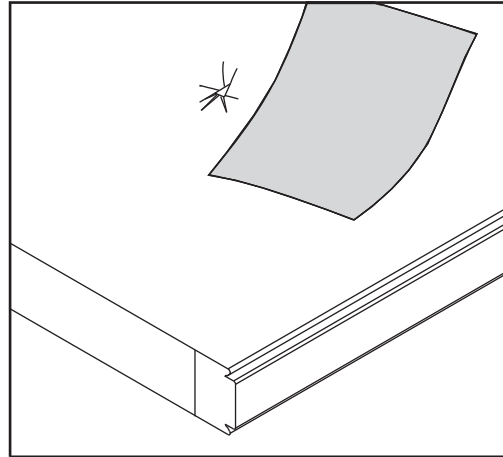
Steel Door Dent Repair

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

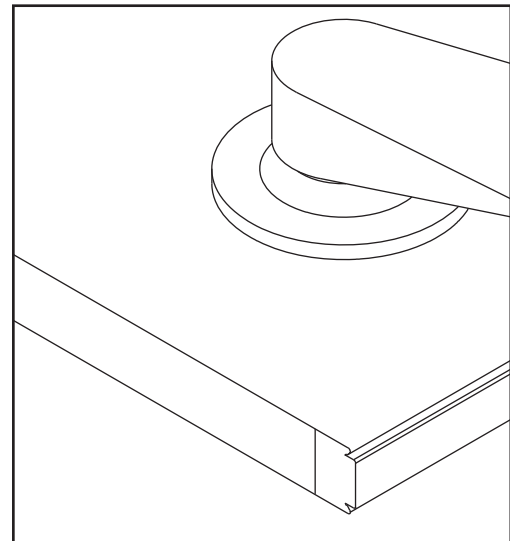
Fill dent using Therma-Tru Dent Repair Kit (Part # MS00DRK) or an automotive body-filler compound.

Smooth using a wide-blade putty knife.

Overfill to account for shrinkage and sanding.

Sand Dent Repair

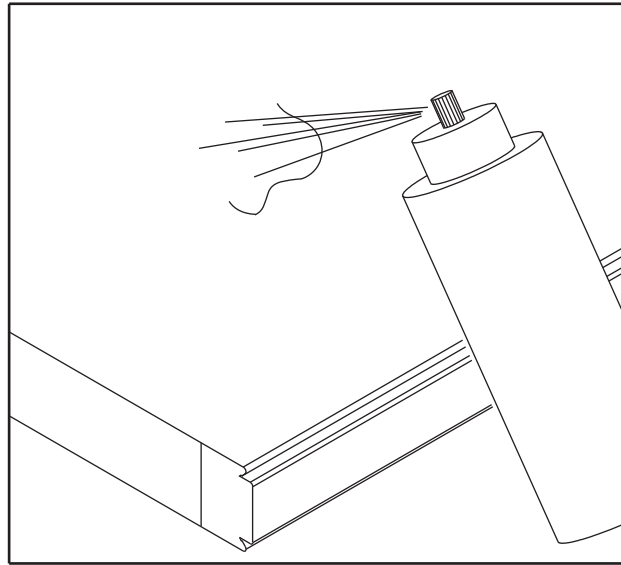
Sand repair using a large sanding block or orbital power sander with 220 grit sandpaper.



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 Oak or Rustic, and Fiber-Classic Primer	MSCCAB-01
Classic-Craft Mahogany Primer	MSCCMAB
Smooth-Star Primer	MSWHSABP-03
Steel Edge Door Primer	MSWHSED
Steel Frame Primer	MSWHAF2

Classic-Craft and Fiber-Classic Skin Repair

For minor scratches in Classic-Craft Rustic & Oak, 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.

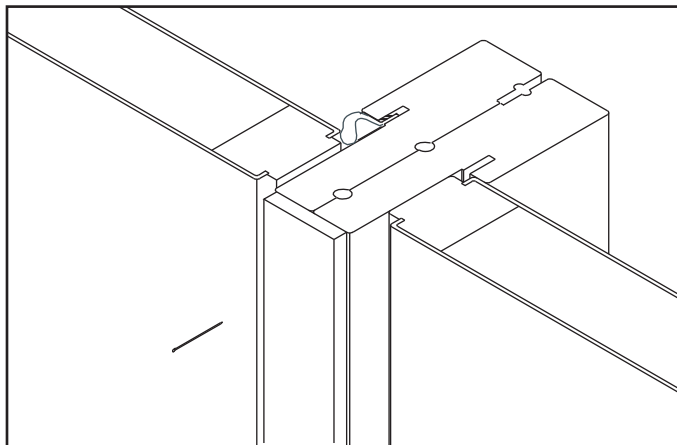
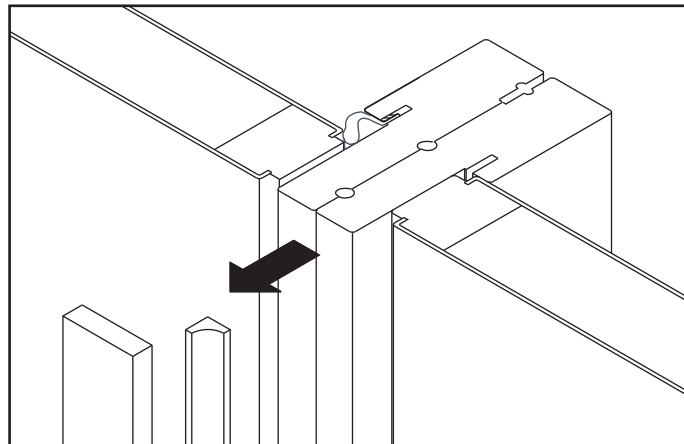
**Repair
and
Replace**

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.

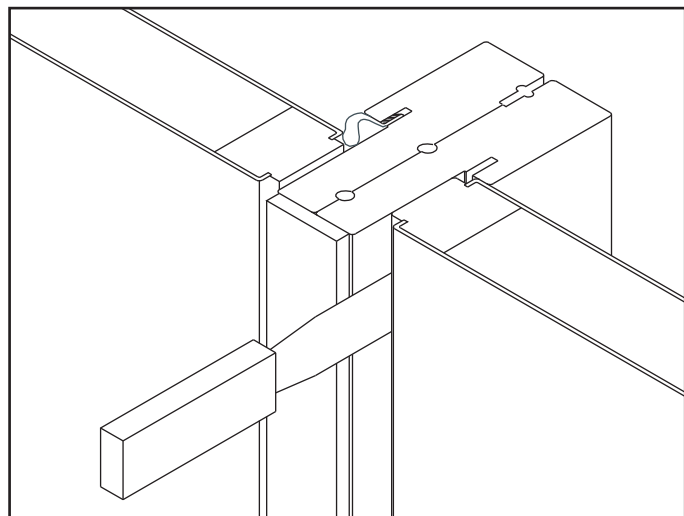


Tack on Protective Strips

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.



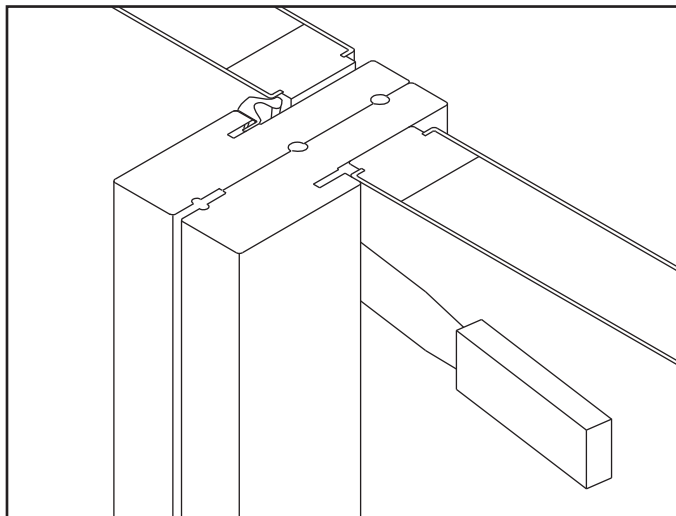
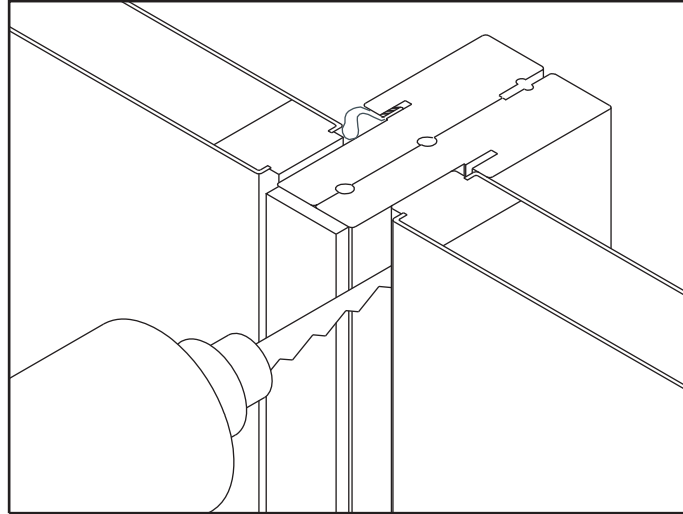
**Repair
and
Replace**

Cut Through Fasteners

Use a reciprocating saw with a metal cutting blade to cut through fasteners.

Run sawblade in margin.

Remove softwood strip.



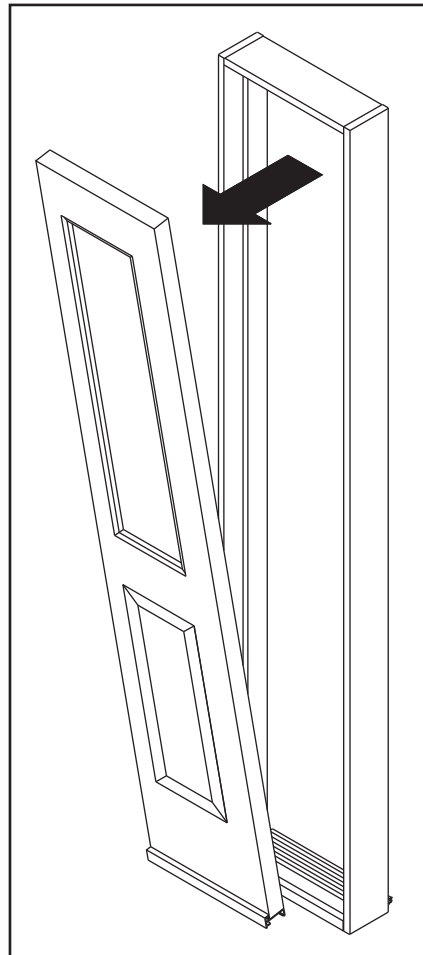
Cut Sealant Joints

On outside face of unit, use putty knife and cut through sealant joints along head and at sides.

**Repair
and
Replace**

Remove Slab

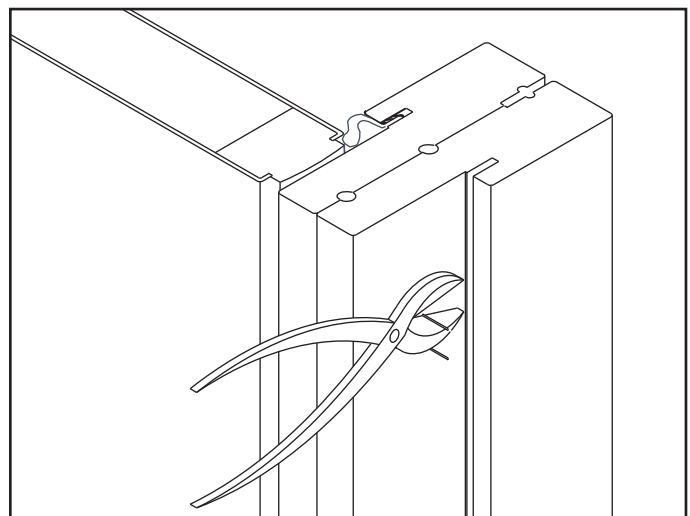
Push slab through from outside.

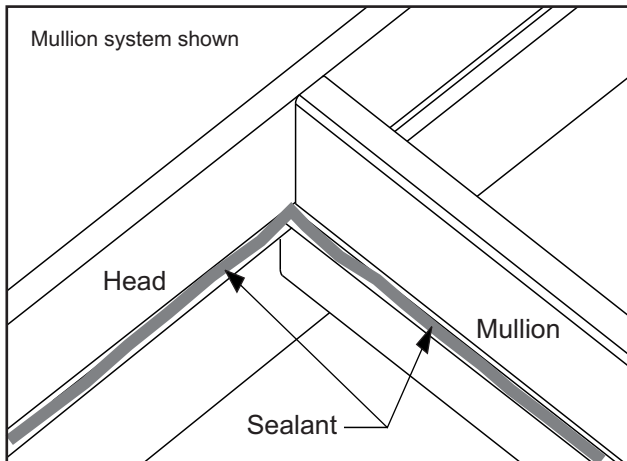


Prepare Opening for New Slab

Cut away and clean off all old caulking.

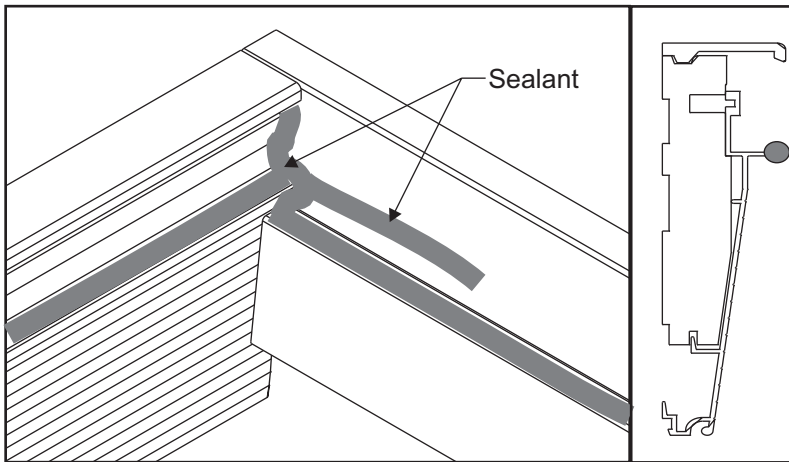
Cut away all old fasteners flush with Frame.





Seal Perimeter

Apply 1/4" bead of (Elastomeric or Polyurethane) sealant around entire perimeter on jamb and/or mullion stops.

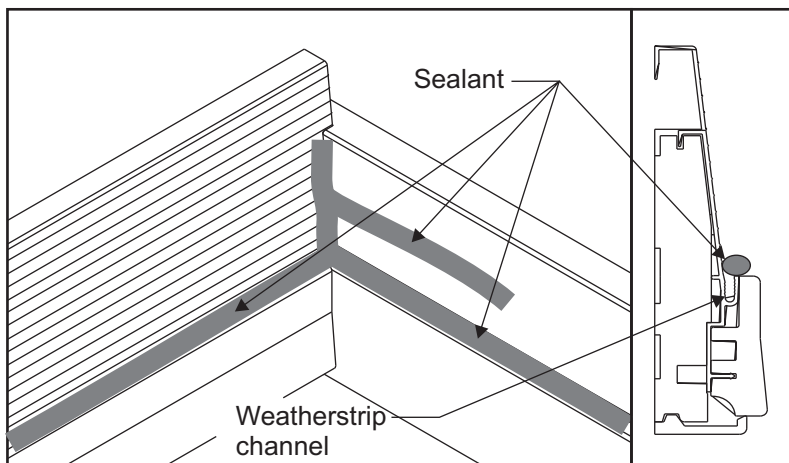


Inswing

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

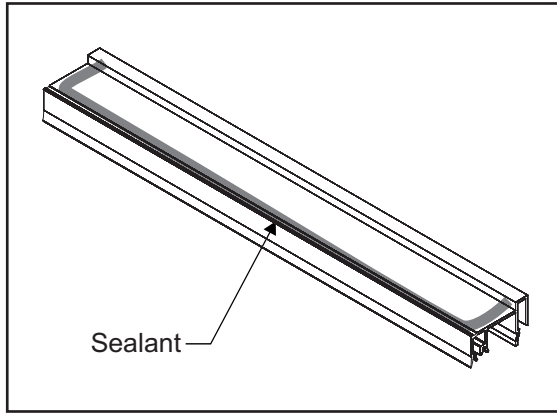
Apply a 1/4" bead of (Elastomeric or Polyurethane) sealant on saddle surface that contacts door face.

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.

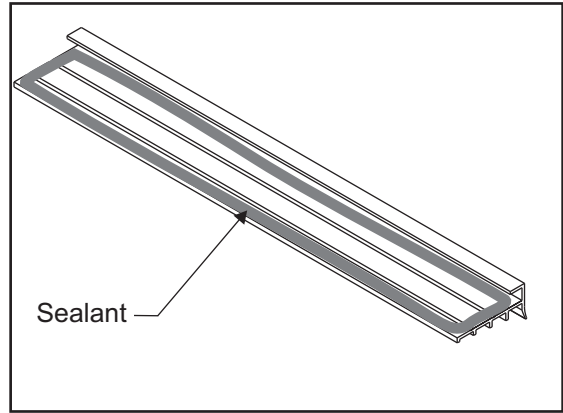
**Repair
and
Replace**

Sidelite Slab Replacement



Sealant

Inswing



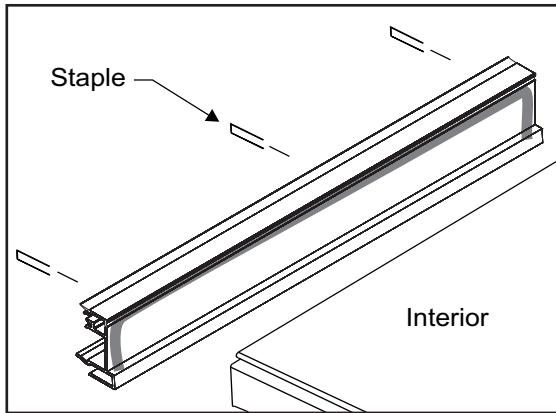
Sealant

Outswing

Caulk Door Bottom

Select a (Elastomeric or Polyurethane) sealant that provides excellent adhesion to both plastic and wood.

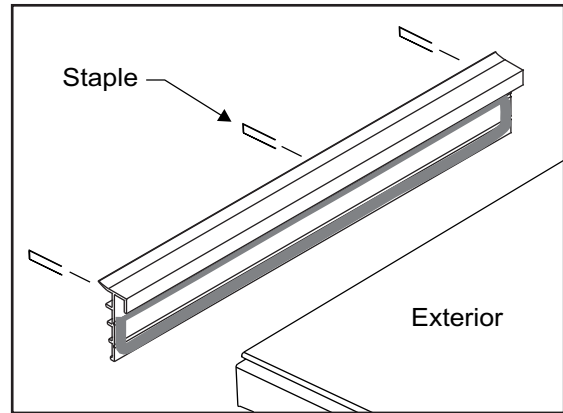
Apply a 1/4" bead of (Elastomeric or Polyurethane) sealant to top surface of door bottom.



Staple

Interior

Inswing



Staple

Exterior

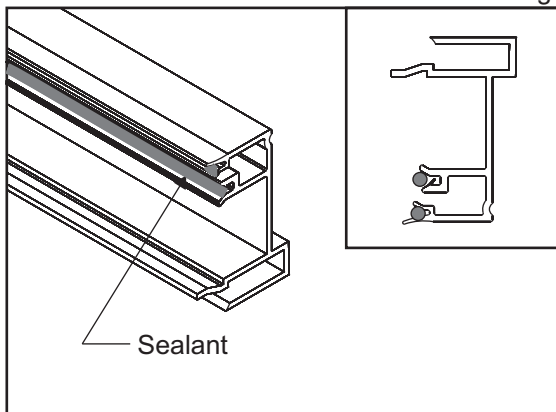
Outswing

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.

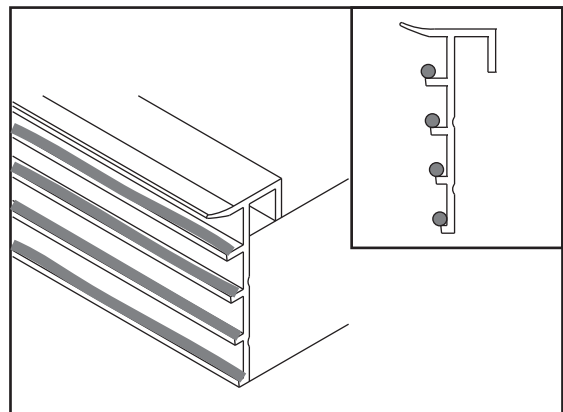
Note:

For 14" and larger slabs use 5 or more fasteners.



Sealant

Inswing



Outswing

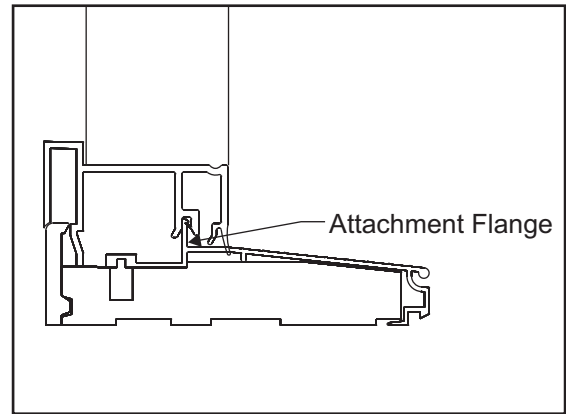
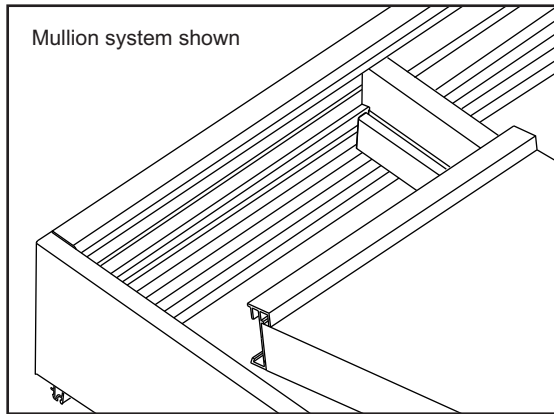
Caulk Door Bottom

Apply (Elastomeric or Polyurethane) sealant along channel on bottom of inactive door bottom.

Repair
and
Replace

Install New Sidelite Slab

Inswing



Install Sidelite Into Frame

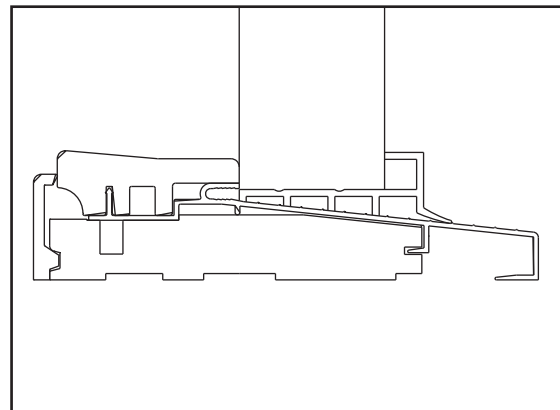
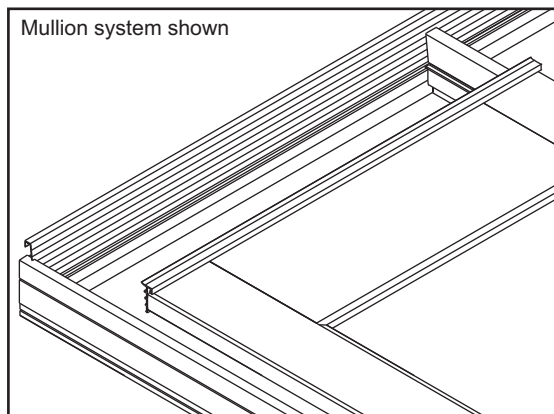
Place sill end first, mating plastic bottom to sill, if necessary.

Use putty knife blade at top to aid insertion of slab in frame.

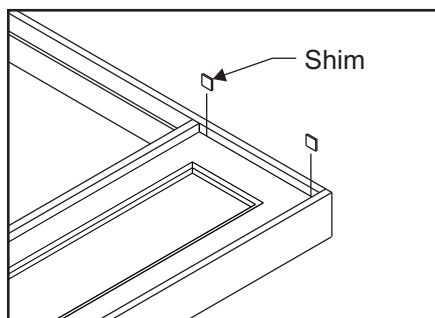
Sidelite panels are nominally 1/16" narrower than frame opening, for 1/32" clearance on each side.

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.

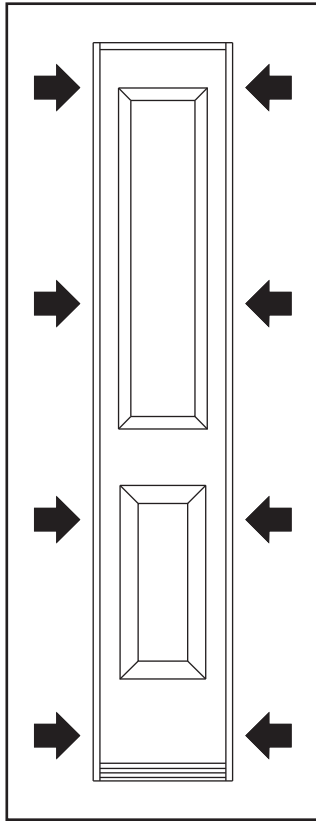
Be careful not to damage face of panel.

**Repair
and
Replace**

Sidelite Slab Replacement

Fasten New Sidelite Slab

Space four fasteners along both sides.



"Mulled" Jamb Application

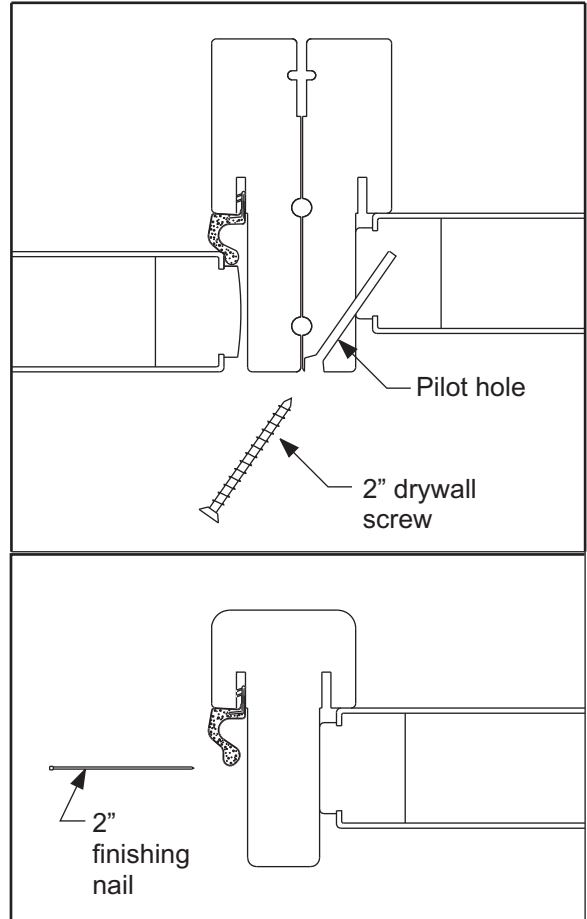
Drill angled pilot holes through frame.

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).

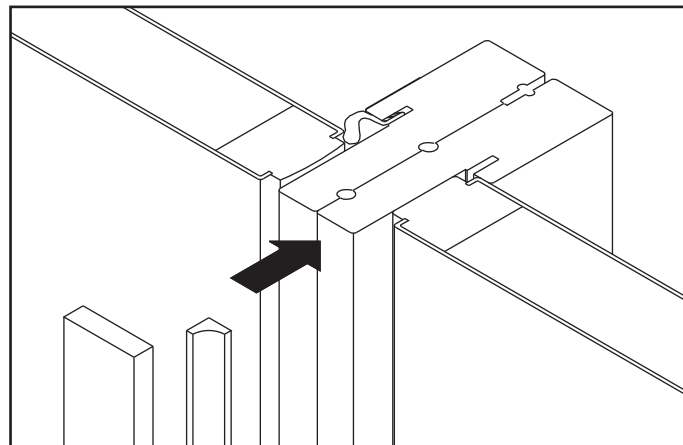
Mullion Application

Fasten through mullion using 2" finishing nails.



Re-apply Cove Molding and Inside Vertical Casing if applicable

Re-apply cove molding and casing to the new sidelite slab unit.

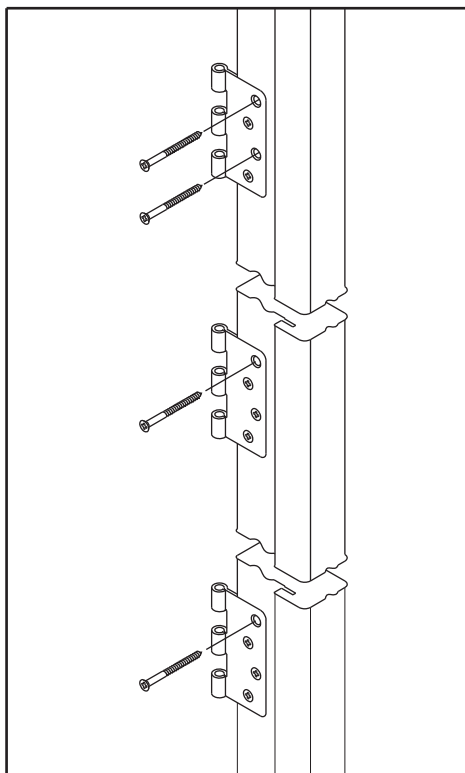
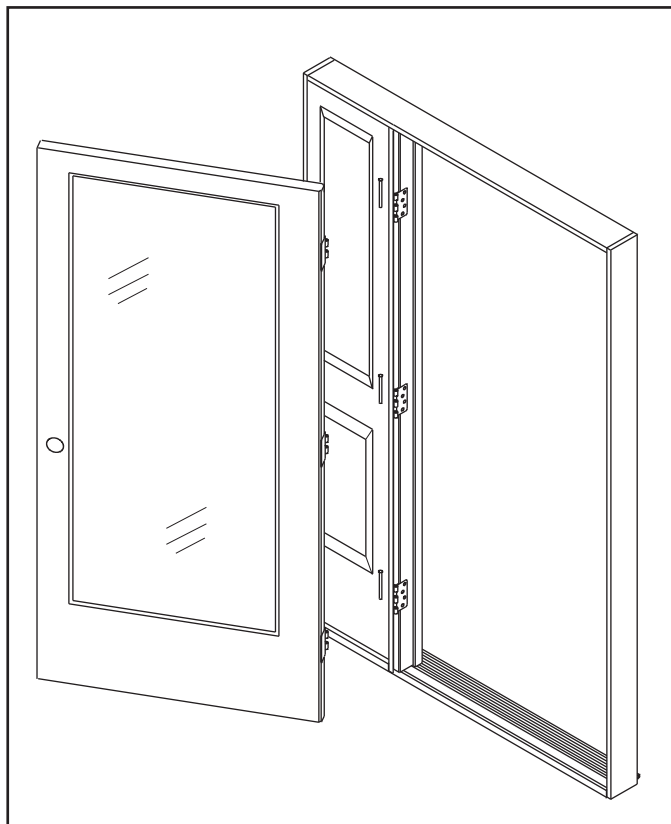


**Repair
and
Replace**

Remove Active Door

Unlatch door and remove hinge pins.

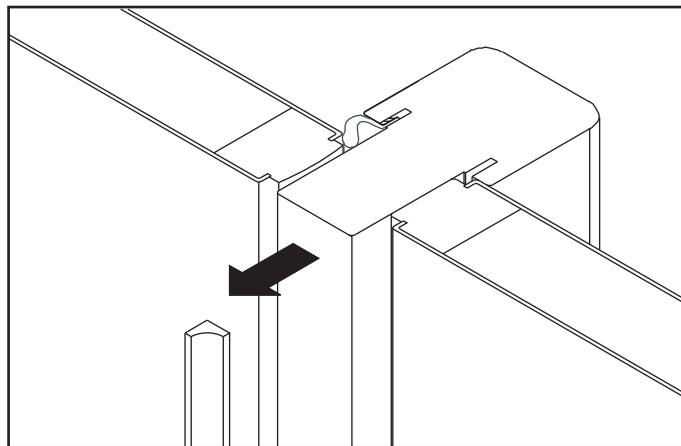
Carefully remove door and set aside.



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.

**Repair
and
Replace**

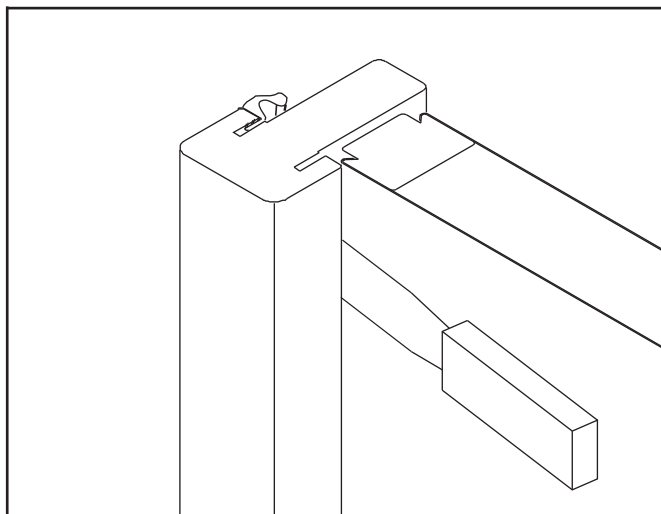
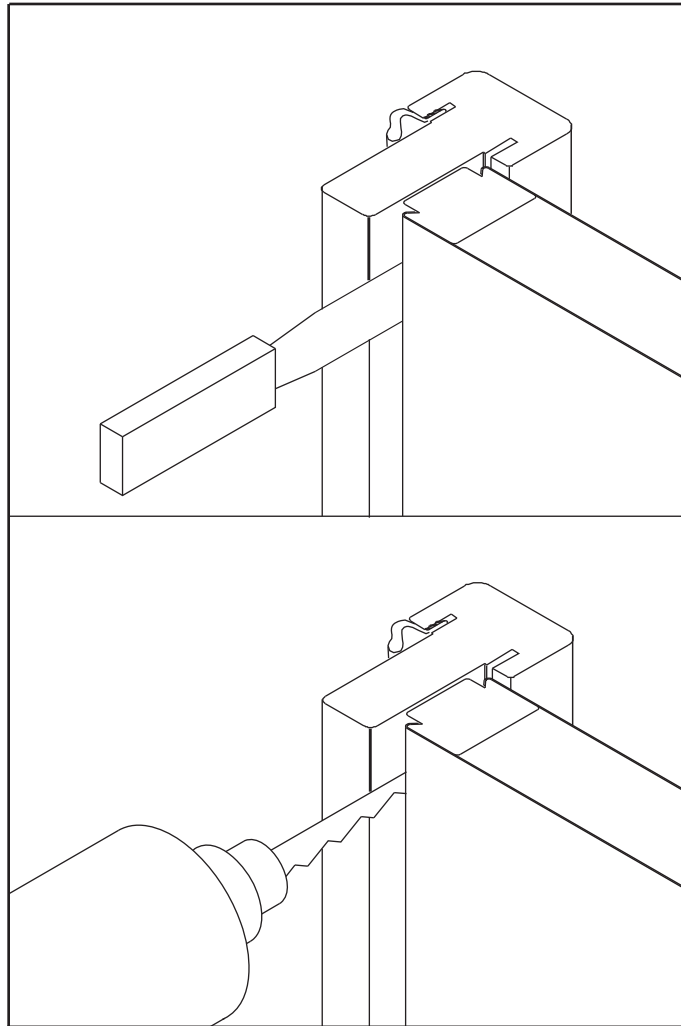
Mullion Post Replacement

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.



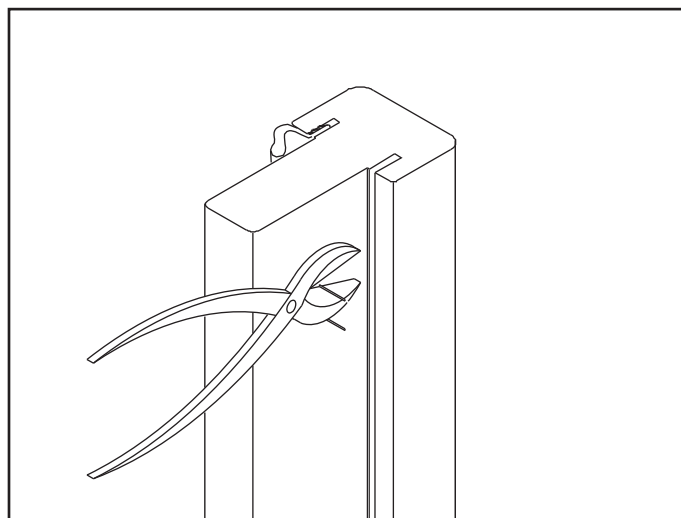
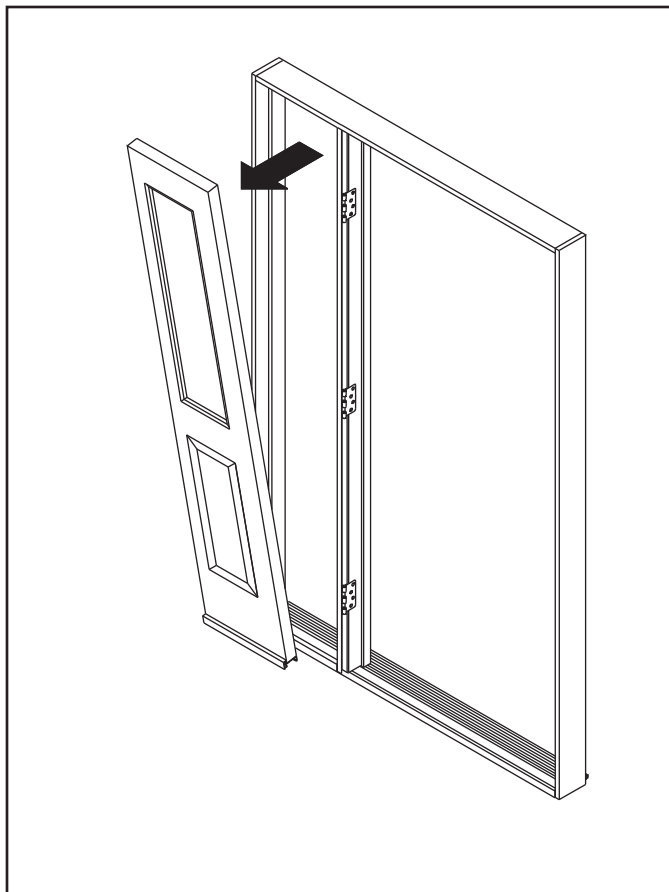
Cut Sealant Joints

On outside face of unit, use a putty knife and cut through sealant joints along head and at sides.

**Repair
and
Replace**

Remove Inactive Sidelite Slab

Push inactive slab in from the outside at mullion side. Door will pivot on staples on jamb side. Support slab while pivoting. Open slab far enough to cut staples attaching slab to jamb. Remove slab.



Prepare Opening for New Slab

Cut away and clean off all old caulking.

Cut away all old fasteners flush with Frame.

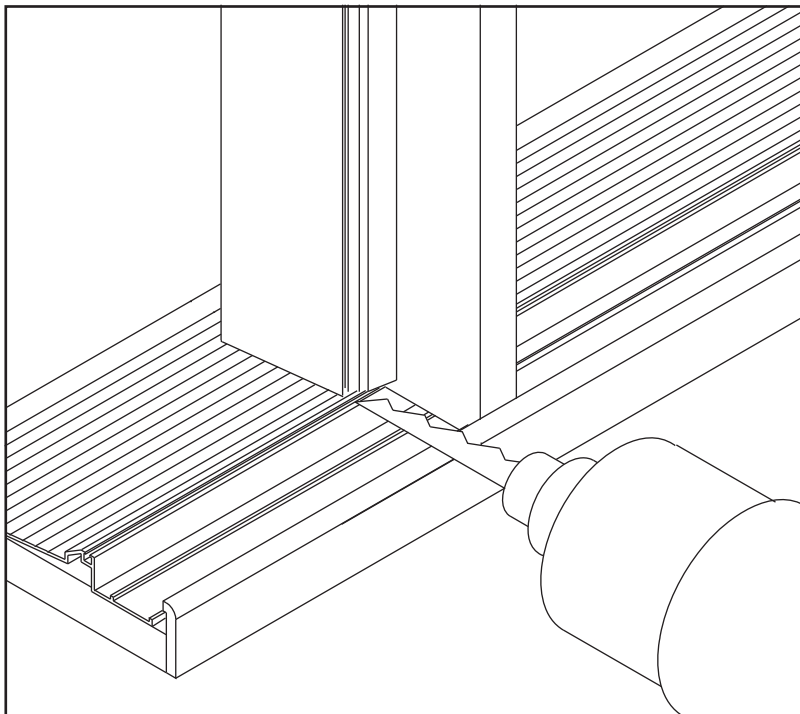
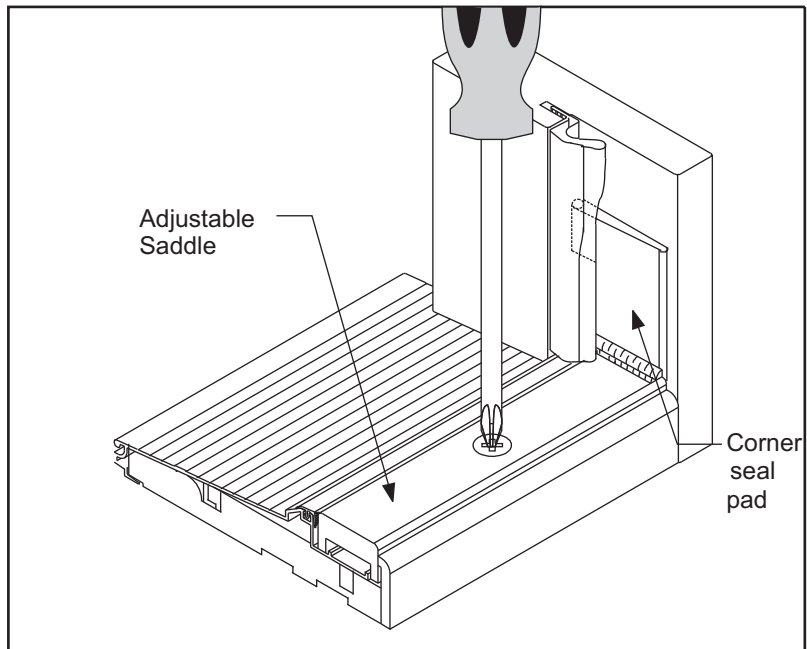
**Repair
and
Replace**

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.

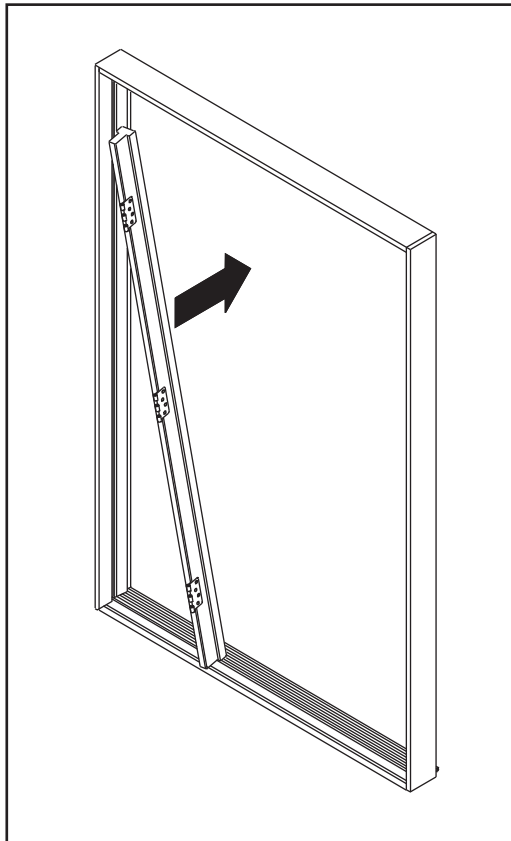
Use a chisel to split ends of mull post clean from head and sill mortise pockets.

Cut away all old fasteners flush with head frame and sill substrate. Cut away and clean off all old caulk.

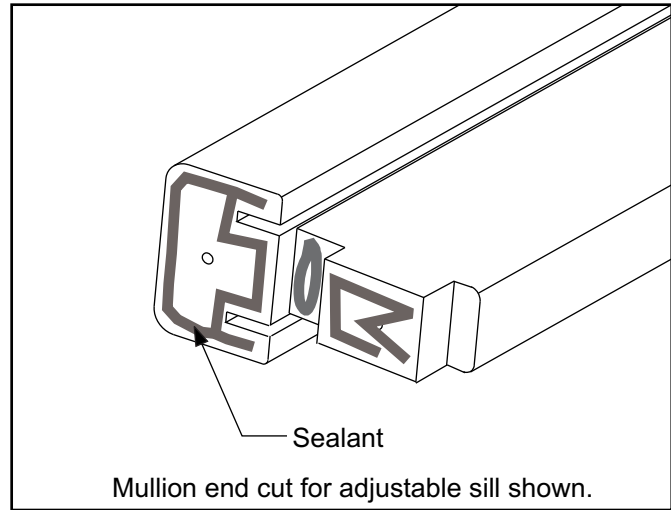
**Repair
and
Replace**

Install New Mull Post

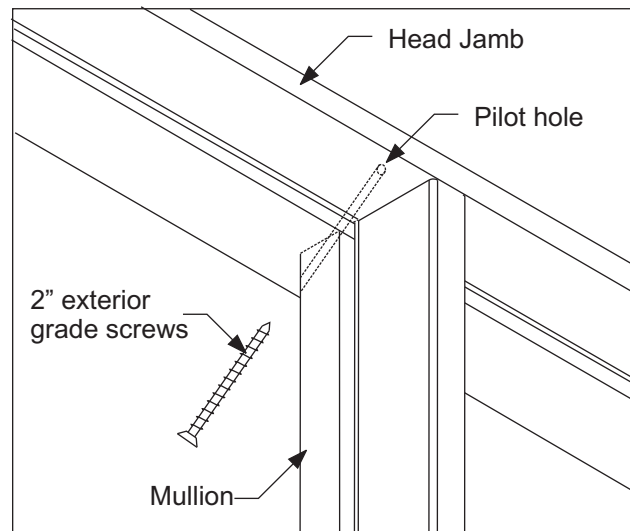
Apply Elastomeric or Polyurethane sealant to bottom end of mull post and insert into sill detail.



Pre-drill holes on an angle through mull post and then secure with screws into sill and head frame.

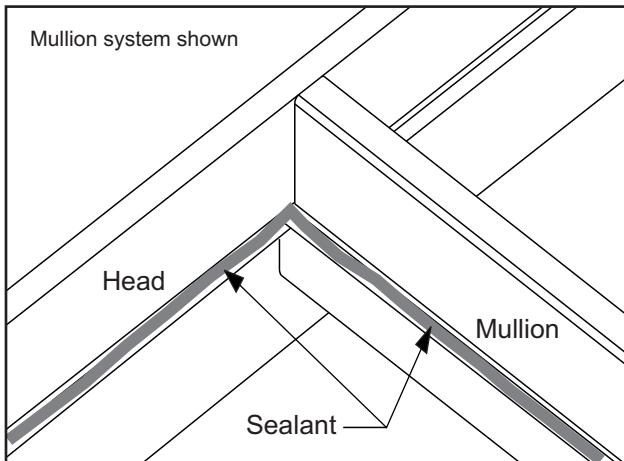


Slide head end of mull post into head mortise pocket.



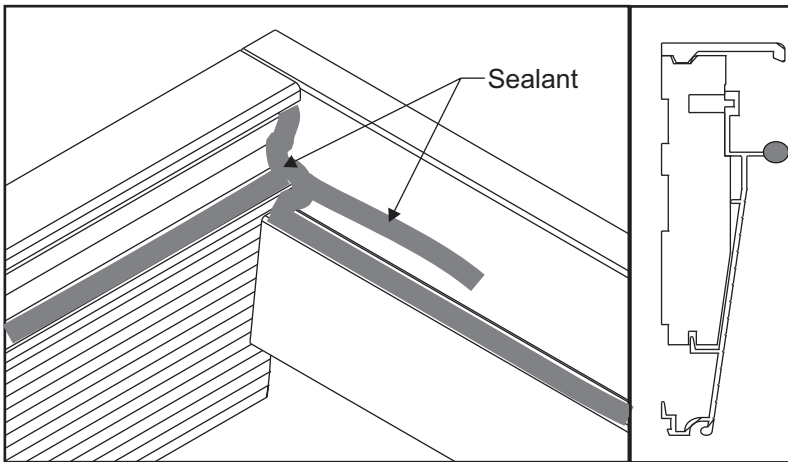
**Repair
and
Replace**

Mullion Post Replacement



Seal Perimeter

Apply 1/4" bead of (Elastomeric or Polyurethane) sealant around entire perimeter on jamb and/or mullion stops.

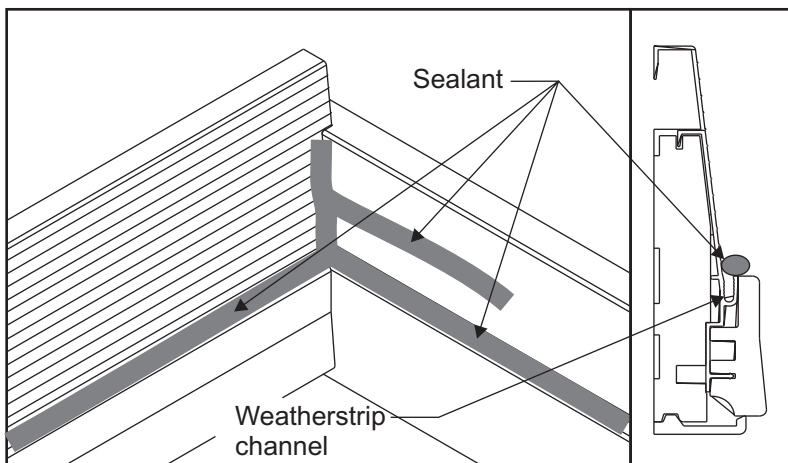


Inswing Sill

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.

Inswing



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.

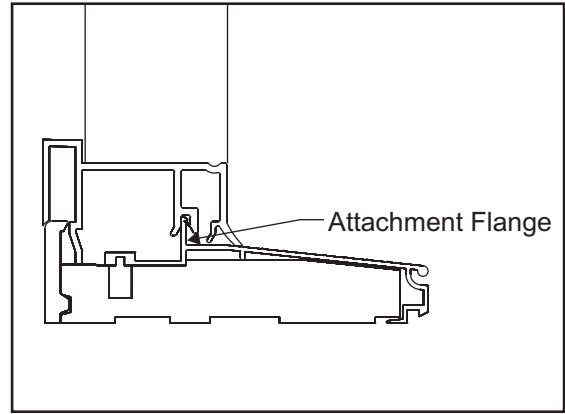
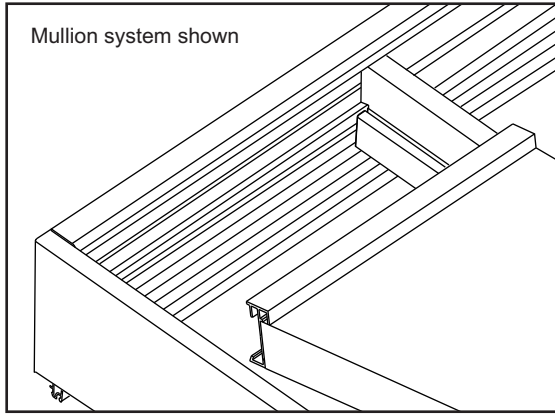
Apply a 1/4" bead of (Elastomeric or Polyurethane) sealant approx. 1" above weatherstrip kerf, 6" long.

Outswing

Repair
and
Replace

Install Sidelite Into Frame

Inswing



Install Sidelite Into Frame

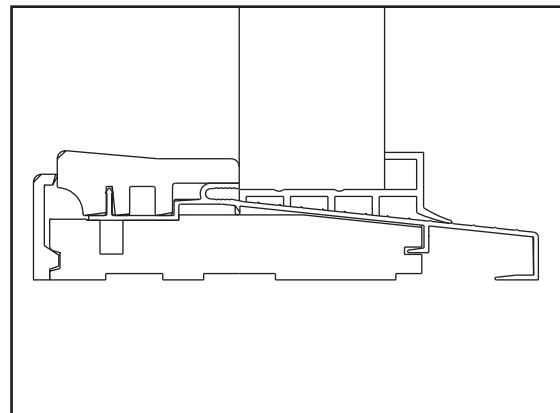
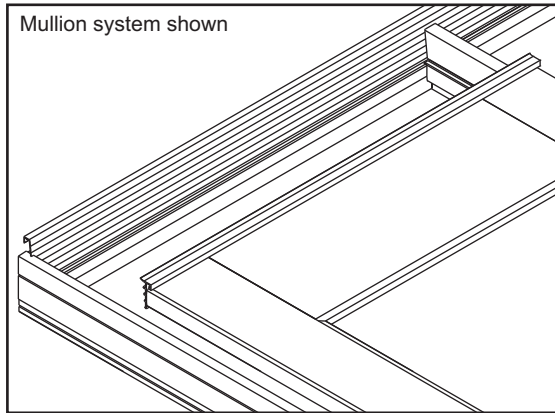
Place sill end first, mating plastic bottom to sill, if necessary.

Use putty knife blade at top to aid insertion of slab in frame.

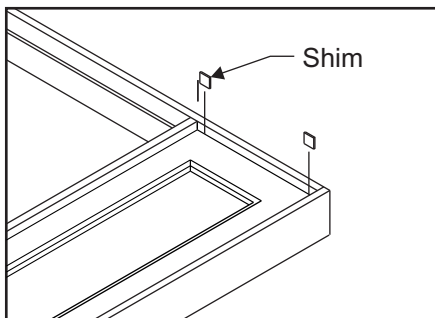
Sidelite panels are nominally 1/16" narrower than frame opening, for 1/32" clearance on each side.

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.

**Repair
and
Replace**

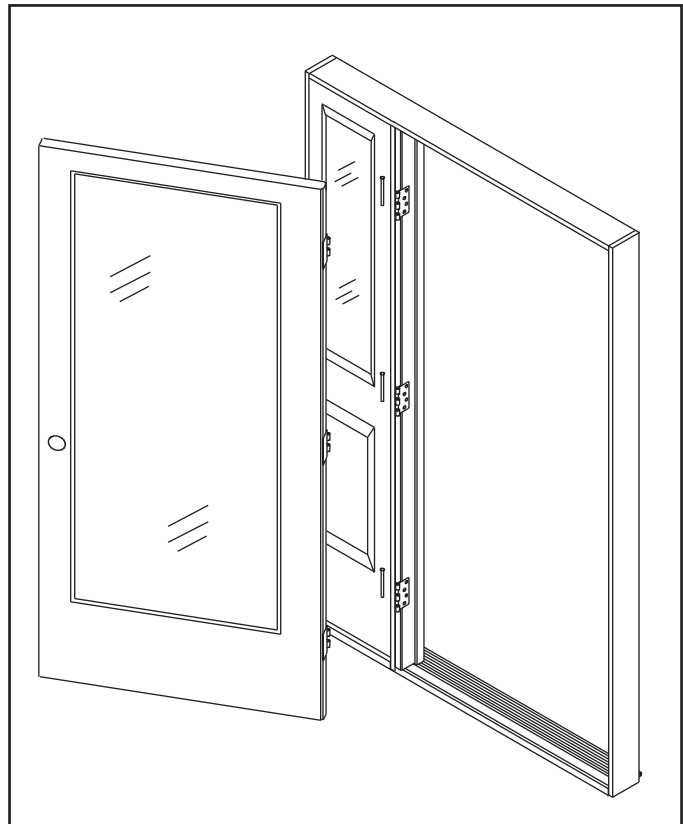
Finish Up

Replace jamb casing.

Replace active slab.

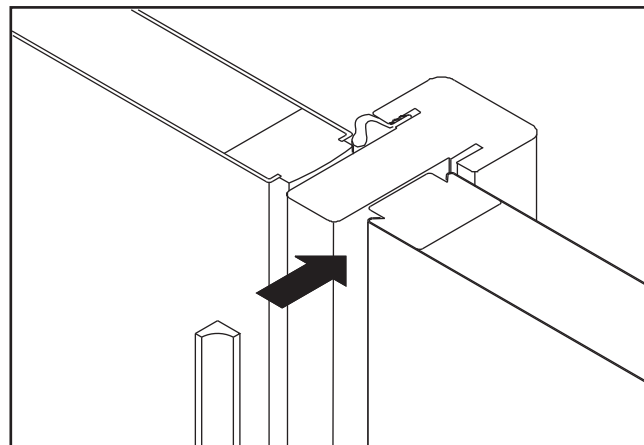
Examine exterior joints between inactive slab, frame and sill.

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.



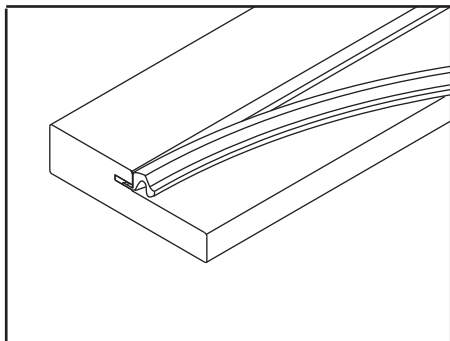
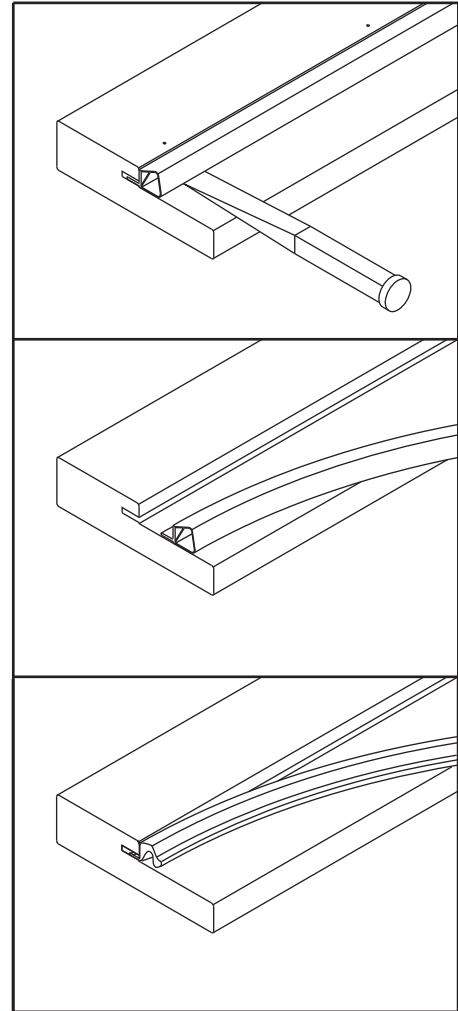
**Repair
and
Replace**

Nail-In Weatherstrip

Use a sharp chisel or putty knife to break nails between weatherstrip and jamb.

Remove weatherstrip.

Apply compression weatherstrip to jamb.



Press-In Weatherstrip

Remove existing weatherstrip from jambs.

Replace with new compression weatherstrip.

**Repair
and
Replace**

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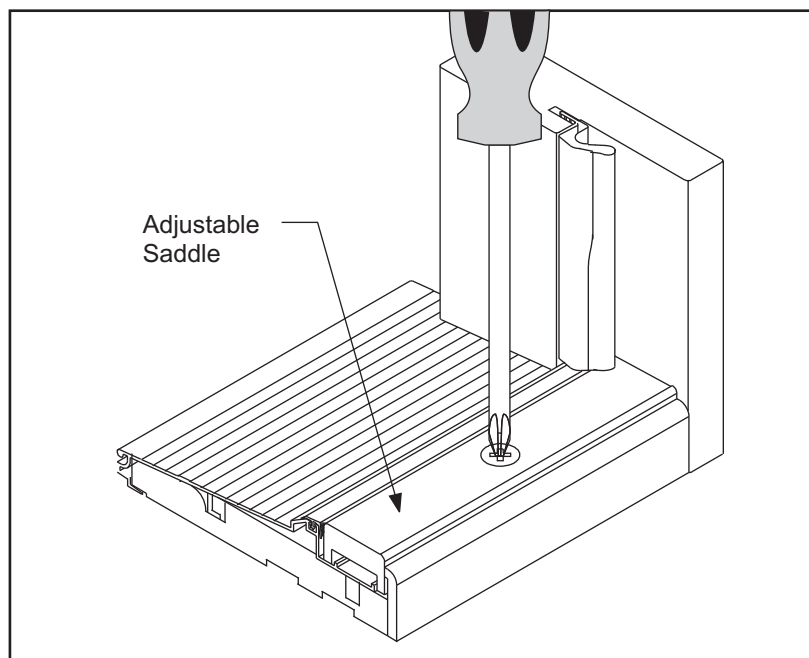
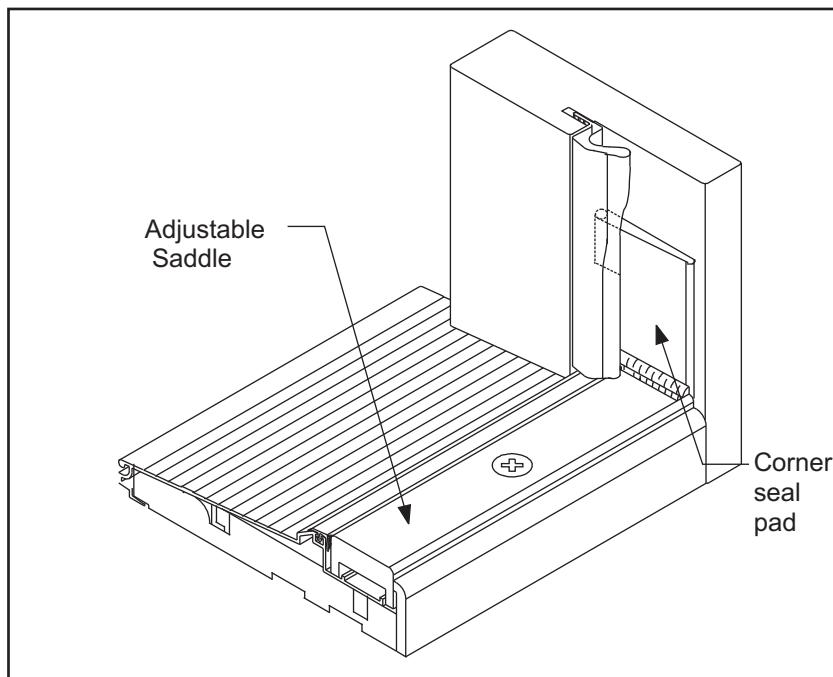
Repair
and
Replace

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.

**Repair
and
Replace**

Adjustable Sill Threshold Replacement

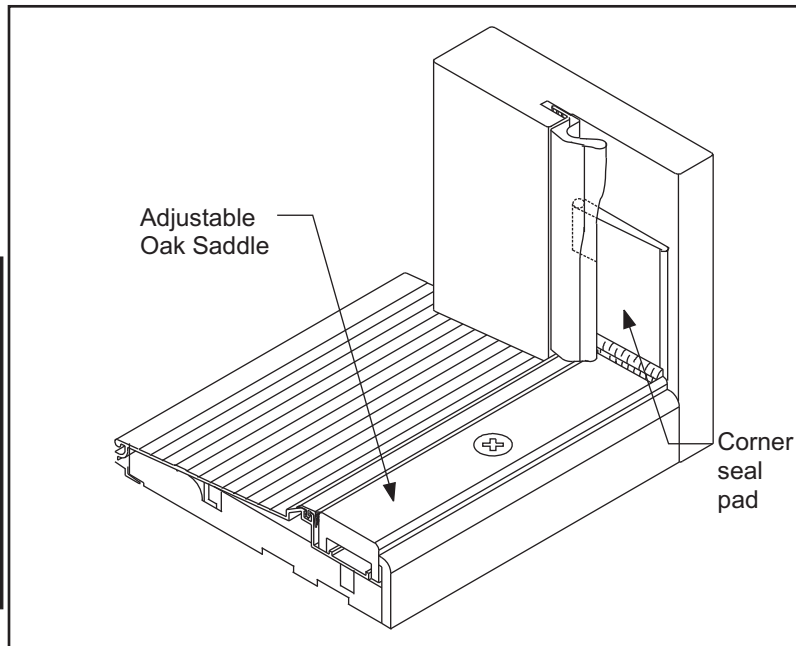
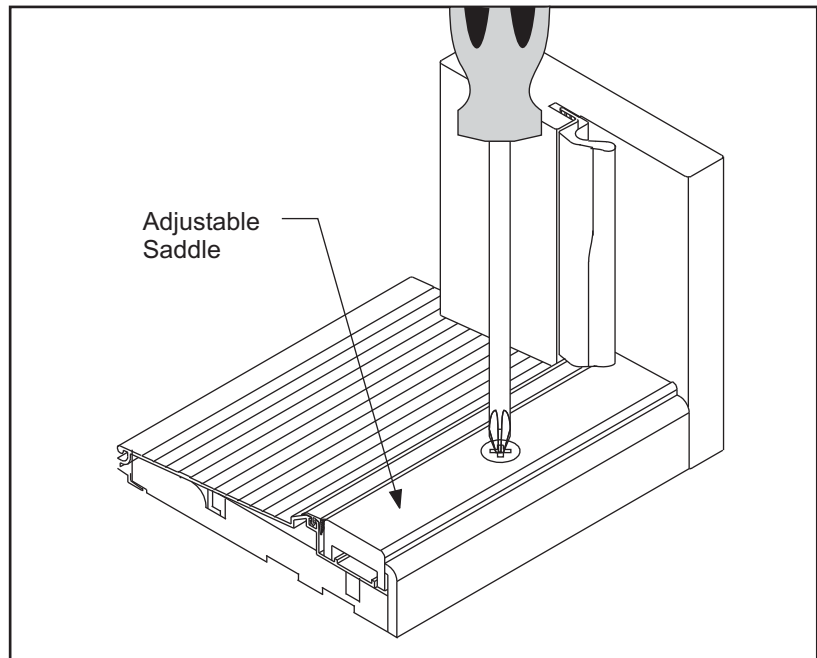
Fasten Threshold to Sill

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 threshold 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.

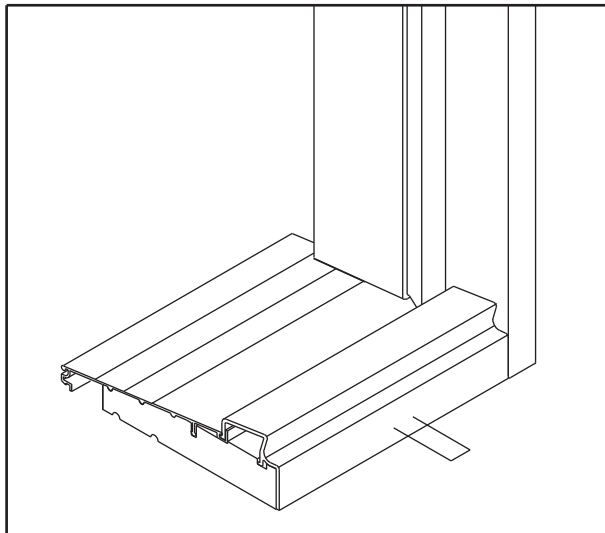
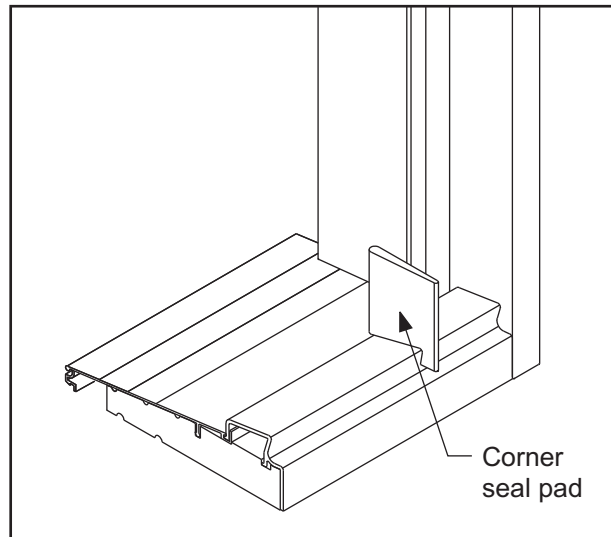
Repair
and
Replace

Remove Corner Seal Pads

Break any sealant bonds.

Remove corner seal pads.

Clean off excess sealant.

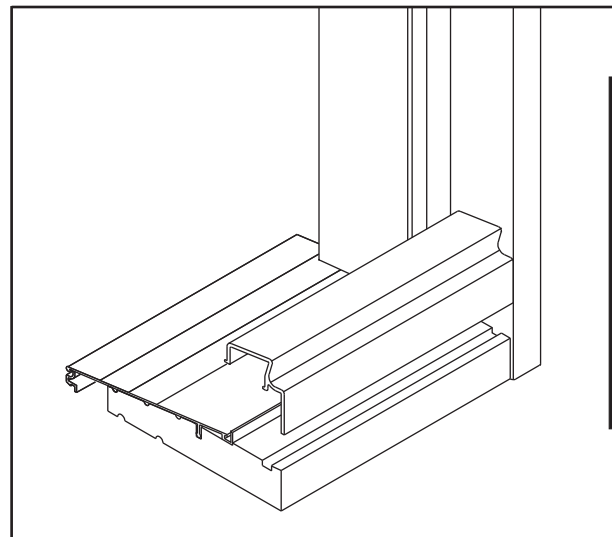


Remove Staples and/or Screws

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.

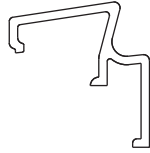


**Repair
and
Replace**

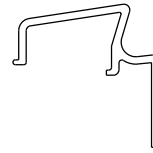
Self-Adjusting Sill Vinyl Threshold Replacement

Determine Correct Replacement Part

Look at threshold profile and determine which replacement vinyl is required.



Replacement Vinyl (Woodgrain)
3/0 - RPSLIV397W
6/0 - RPSLIV697W

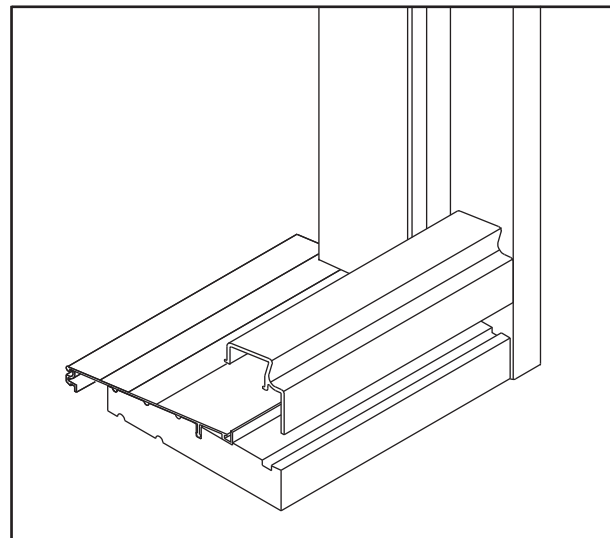


Replacement Vinyl (1993)
3/0 - RPSLIV393
6/0 - RPSLIV693

Install Vinyl Threshold

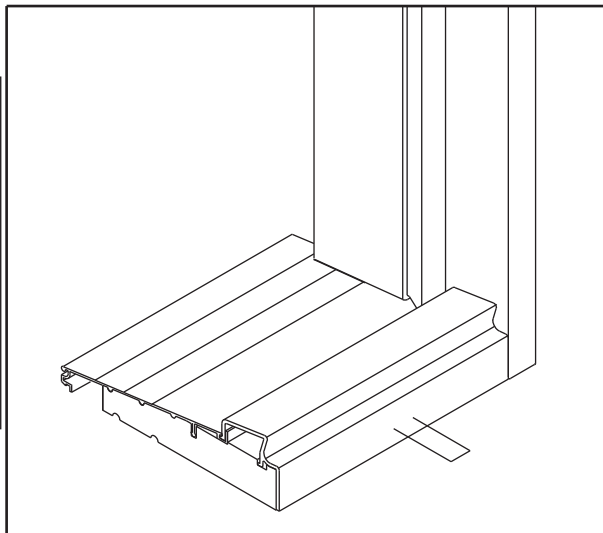
NOTE: It may be necessary to trim new threshold so it fits properly.

Hook vinyl nose into aluminum groove and rotate down around wood substrate.



Fasten Threshold

With threshold in place, fasten back face down with staples.



Repair
and
Replace

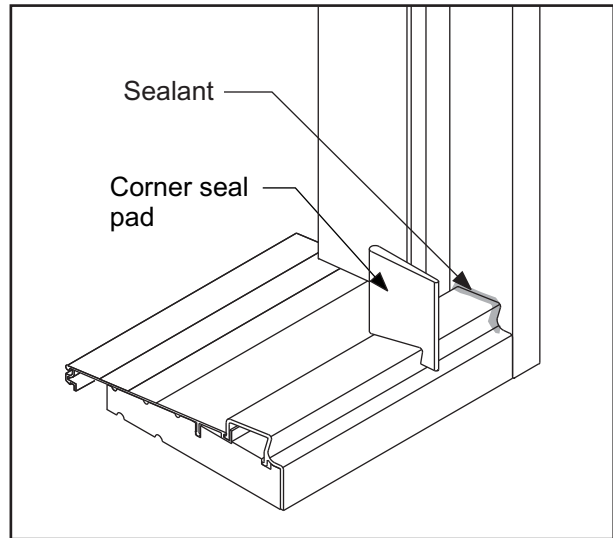
Apply Corner Seal Pads

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.



**Repair
and
Replace**

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**Repair
and
Replace**

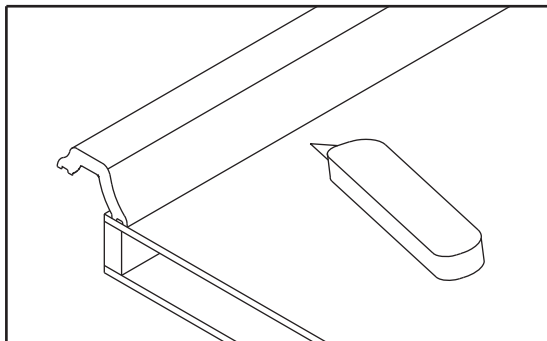
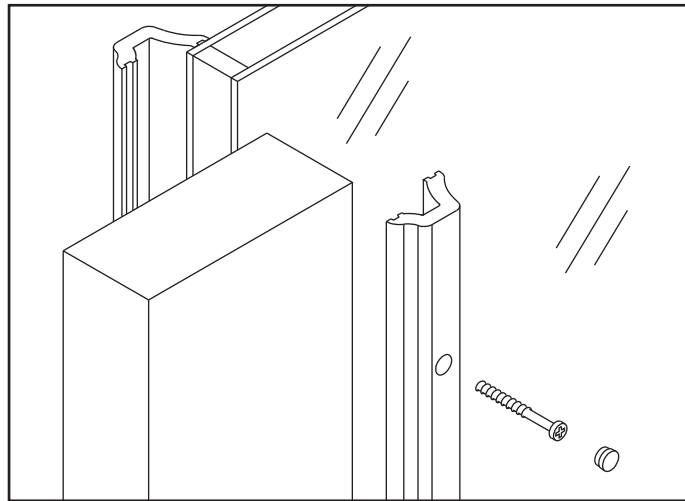
Remove Door from System

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.

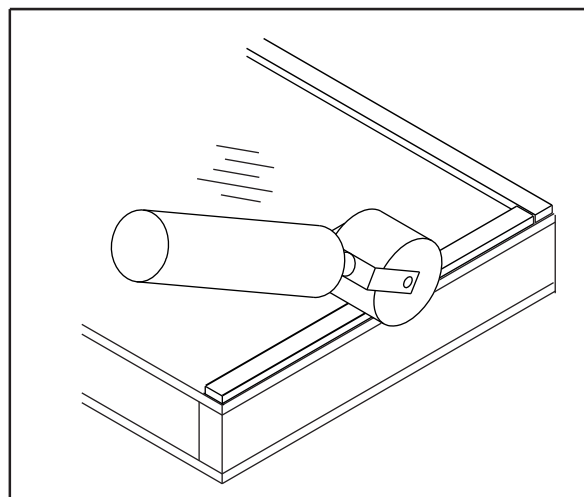
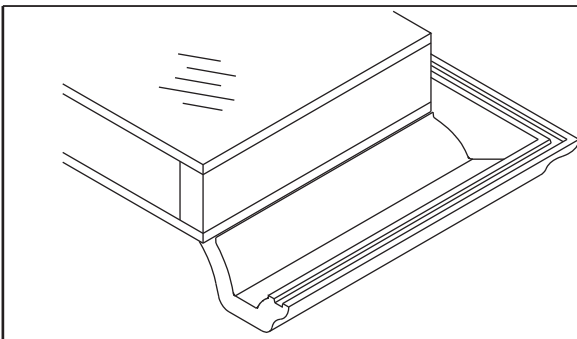
Remove glass by cutting through glazing sealant with utility knife.

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.

Leaving the release backing film, on 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.** When the tape is paced all around, peel off and discard the release backing.



Align and insert glass onto exterior frame, pressing in place to ensure a good bond.

**Repair
and
Replace**

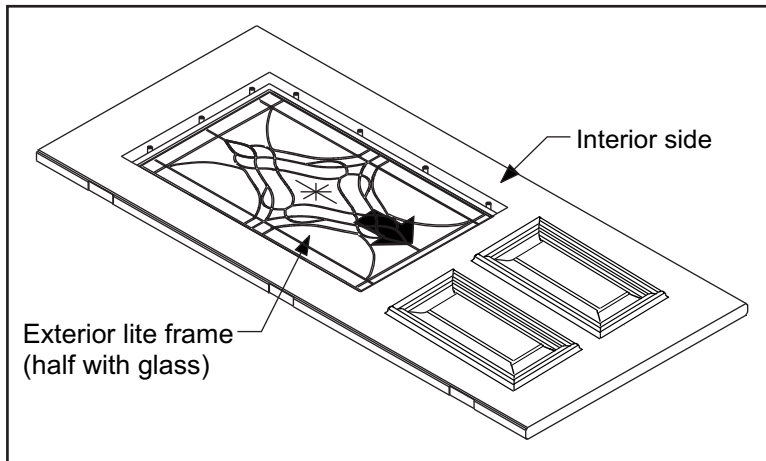
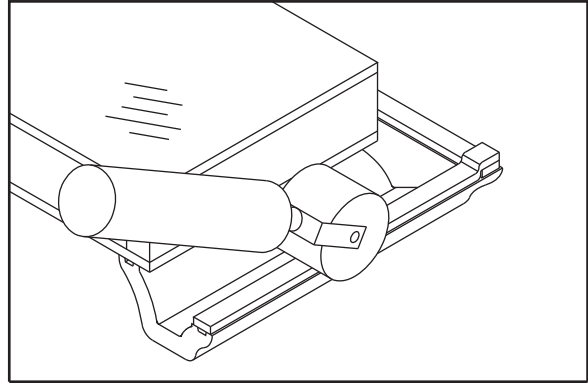
Apply Glazing Tape (if damaged)

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.



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

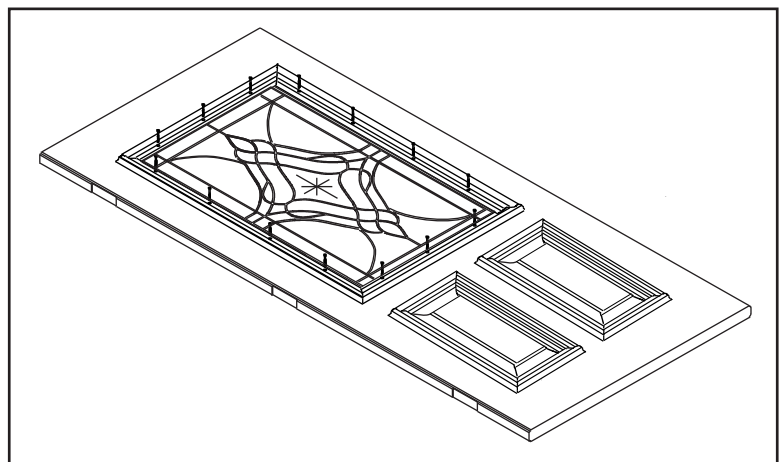
Ensure correct alignment of screw bosses.

Ensure frame edges are well-seated.

Drive screws.

Press-fit screw plugs into frame holes.

Re-hang door.



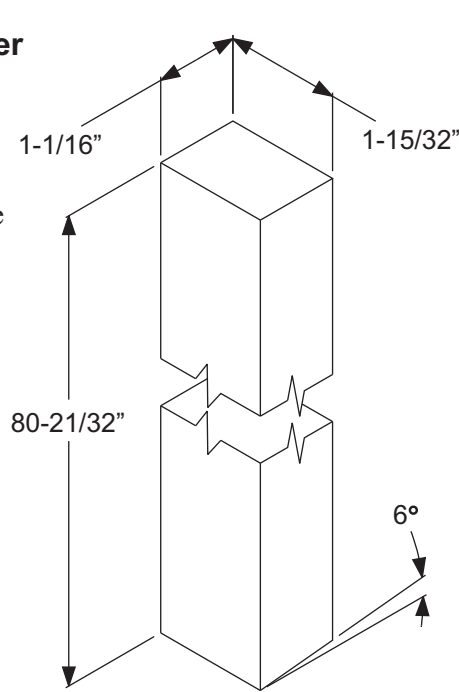
Repair and Replace

Make Storm Door Adapter Strips

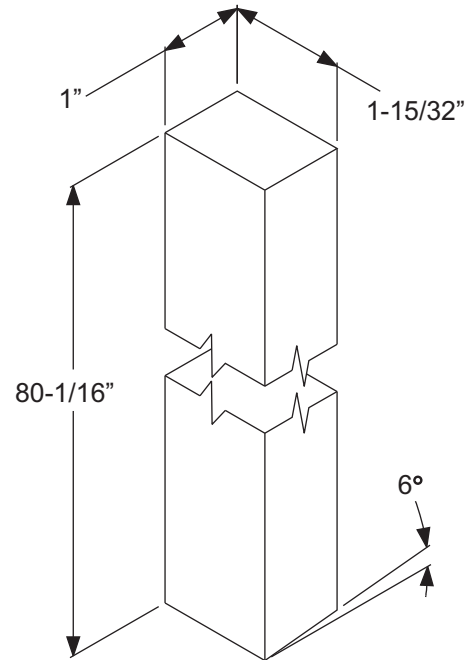
4-9/16" Jamb Adapter

Use standard mull casings (Part No. MSMLCAS). Cut to length as shown, and bevel one end to make base and face adapter strips.

One set (2 pieces - face and base adapter) is used at each mullion.



Face Adapter Strip



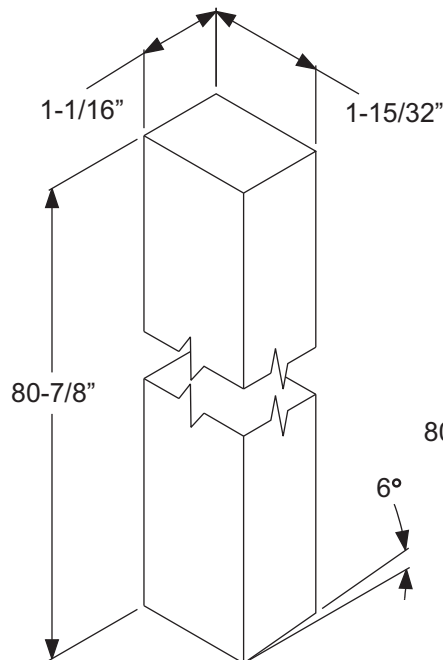
Base Adapter Strip

6-9/16" Jamb Adapter

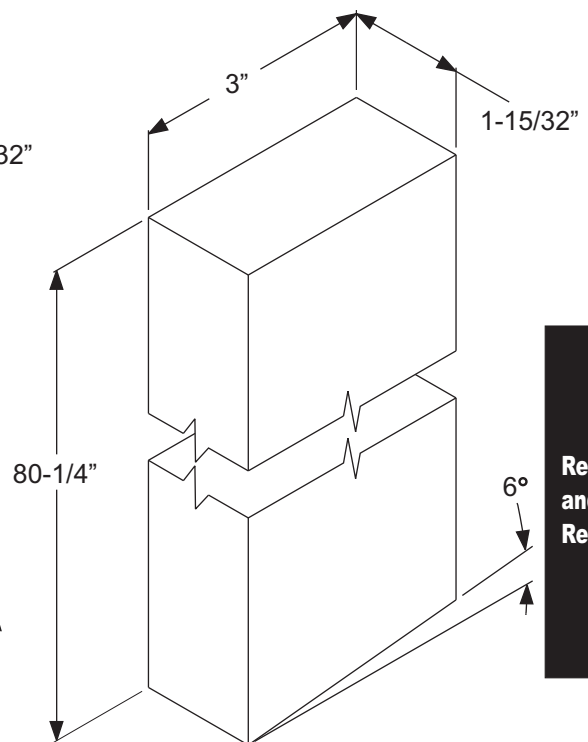
Purchase or fabricate a base adaptor strip as shown (Part number MSSDADP).

Use one standard mull casing (Part No. MSMLCAS). Cut to length as shown, and bevel one end to make a face adapter strip.

One set (2 pieces - face and base adapter) is used at each mullion.



Face Adapter Strip



Base Adapter Strip

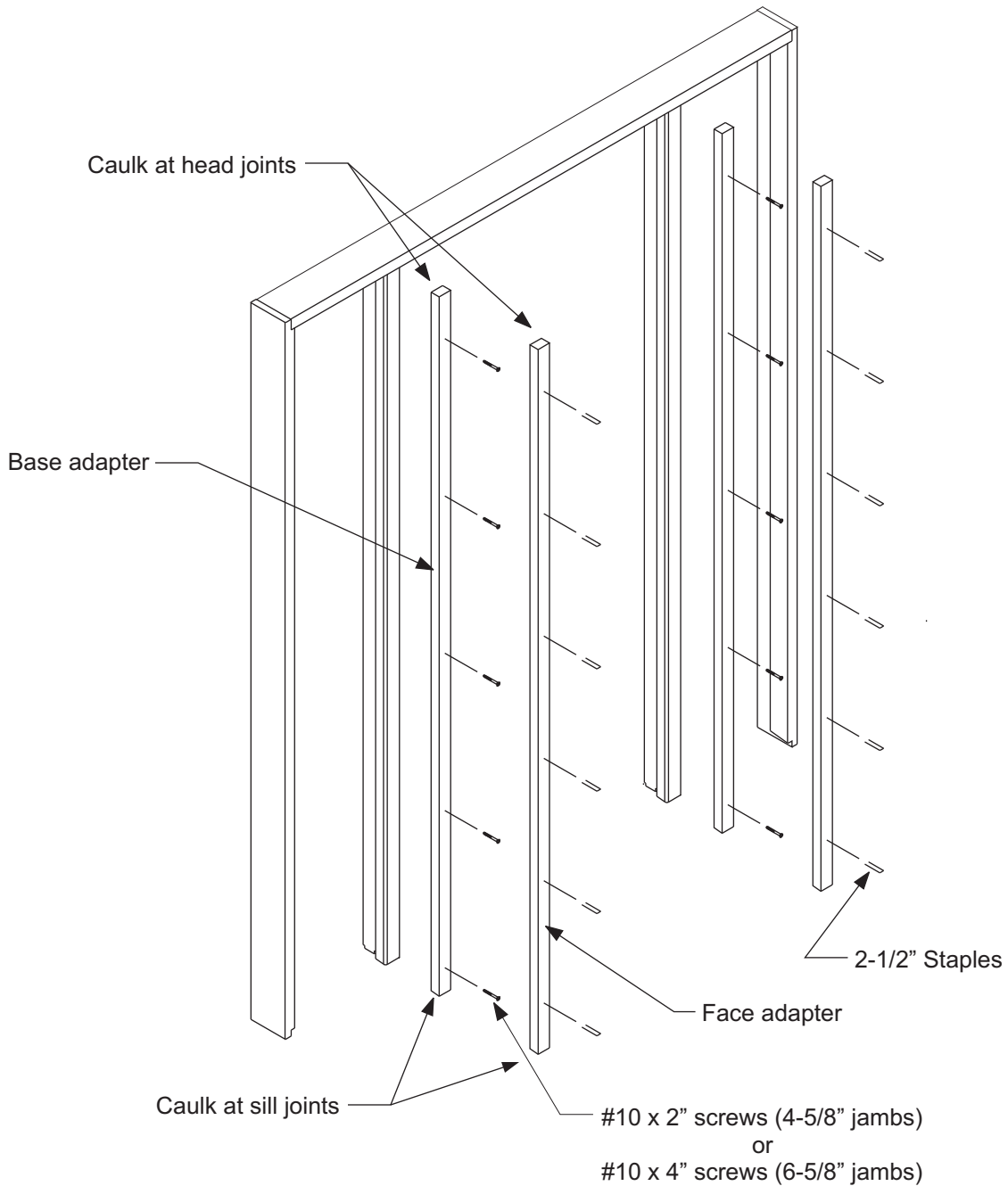
Repair and Replace

Storm Door Strip Application (Continuous Sill)

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 adapters using 2-1/2" staples.



Sill removed for clarity.

Repair
and
Replace

Installation Instructions

- Astragal, Aluminum p.1.22
- Astragal, Coastal 2 p.1.31
- Astragal, Multi-point Shootbolt
Coastal 2 p.1.34
- Astragal, Multi-point Shootbolt p.1.25
- Astragal, Oak p.1.28
- Astragal, Outswing Security Cover p.1.37
- Dentil Shelf p.1.82
- Grille Installation Instructions p.1.59
- Jamb-Jack p.1.61
- Lite Divider p.1.81
- Multi-Point Lock Quick Tip Sheet
& Instructions p.1.13
- Pre-hung Arch/Radius Unit p.1.11
- Pre-hung Unit p.1.3
- Sill p.1.57
- Sill Pan Installation Instructions p.1.21
- Site Adjusta-Fit 2 p.1.53
- Spring Hinge Instructions p.1.84
- Storm Door Strip Application p.5.29
- Transom p.1.39
- Transom Elliptical Casing p.1.51

Finishing Instructions

- Aluminum Astragal Painting p.2.15
- Classic-Craft Painting p.2.12
- Classic-Craft Refinishing p.3.5
- Classic-Craft Staining p.2.3
- Classic-Craft Stripping p.3.5
- Doorlite Frame Finishing p.2.17-22
- Fiber-Classic Painting p.2.12
- Fiber-Classic Refinishing p.3.5
- Fiber-Classic Staining p.2.3
- Fiber-Classic Stripping p.3.5
- Pre-hung Unit p.1.6
- Same-Day Stain Finishing Kit p.2.3
- Smooth-Star Painting p.2.13
- Steel Painting p.2.14

Maintenance

- Clear & Stains p.3.3
- Corner Seal Pads p.3.4
- Door Bottom p.3.3
- Riser for Adjustable Sills p.3.3
- Paint p.3.3
- Sealing/Resealing Areas p.3.4
- Vinyl Thresholds p.3.3
- Weatherstrip p.3.3

Painting

- Aluminum Astragal p.2.15
- Classic-Craft p.2.12
- Fiber-Classic p.2.12
- Smooth-Star p.2.13
- Steel p.2.14

Refinishing

- Classic-Craft p.3.5
- Fiber-Classic p.3.5

Repair

- Classic-Craft Scratches p.5.5
- Dents, Steel Doors p.5.4
- Fiber-Classic Scratches p.5.5
- Stile Chips p.5.3

Replacement

- Doorlite p.5.29
- Mull p.5.13
- Sidelite p.5.6
- Threshold, Adjustable Sill p.5.23
- Threshold, Self-Adjusting Sill Vinyl p.5.25
- Weatherstrip p.5.21

Staining

- Classic-Craft p.2.3
- Fiber-Classic p.2.3

Stripping

- Classic-Classic p.3.5
- Fiber-Classic p.3.5

Troubleshooting

- Air Leak p.4.3
- Door not opening or closing properly p.4.9
- Door Panel Loose p.4.11
- Hinge, Spring Loaded Tension p.4.10
- Light Leak p.4.3
- Water Leak p.4.4-9

