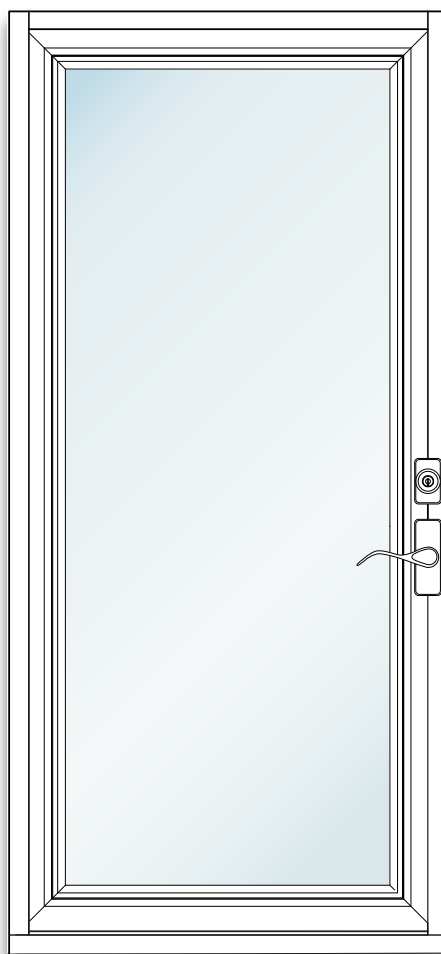




INSTALLATION INSTRUCTION MANUAL

EXPANDER SINGLE STORM DOOR

(SPECTRUM™, DECORATOR™, DELUXE™, DURAGUARD™, AND SUPERVIEW™)



** Find QR Codes inside for additional information, helpful installation tips, and videos.*



Contact the local recycling waste management center for waste disposal in the area. Always check local waste requirements and carefully dispose of waste in accordance with Federal and other regulations.



Homes built before 1978 may contain lead paint. All replacement installations must comply with the U.S. EPA's Lead-Based Paint Renovation, Repair, and Painting Program (RRP Rule). Read more about the RRP Rule and lead-safe work practices, on the U.S. EPA's website at: www.epa.gov/lead



GETTING STARTED

TOOLS & MATERIALS YOU WILL NEED

- | | | |
|----------------------|-----------------------------------|---|
| • Tape Measure | • Hacksaw | • Pliers |
| • Pencil | • Square | • Phillips and Flat Head Screwdrivers |
| • Saw Horses | • Level | • Power Miter Box Saw with Fine Toothed Non-Ferrous Metal Blade |
| • Drill & Drill Bits | • Hammer | |
| • Utility Knife | • Soft Mallet or Dead Blow Hammer | |



This document is to assist with the preparation and installation of ALL ProVia® Spectrum™, Decorator™, Deluxe™, DuraGuard™, and Superview™ models. Please scan the QR code on the back of this guide to see the 'Storm Door Manual: Operation and Maintenance' for more information on the operation of all models, including instruction for sash and screen inserts.



REMEMBER: ALWAYS USE THE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.



Read these instructions carefully before starting installation. Product warranty does not cover damages resulting from improper installation.



IMPORTANT NOTES BEFORE YOU BEGIN

- Inspect your package(s) for any visible damage to the product. In addition, double check your paperwork with label on product(s) and verify all information is a match. Open packaging to confirm style, color and that order was shipped complete. Double check size of new unit by comparing it for fit to opening.
- If damage or irregularities are found, please scan the product's packaging QR Code label using your phone's QR Code Scanner to access ProVia's After Sale Product Support to enter a request and post pictures/videos to the order, or you can call the Customer Service Team at 1-800-669-4711.
- If you have ordered optional items, verify that they are included in packaging contents. This includes checking for multiple packages (For example, 1 of 2 and 2 of 2).



EXPANDER SINGLE STORM DOOR CONTENTS

NOTE: The Expander Storm Door system is designed for an inset type opening. The expander door is to be installed within the jamb opening **ONLY**.

NOTE: Please refer to information below for assembly and installation contents. Installation screw packs listed below are the same for all Spectrum™, Decorator™, Deluxe™, DuraGuard™, and Superview™ models.

Assembly Components

Main components ship separately within main carton:

Door slab, glass sash and screen.

Top and bottom expanders, hinge-side expander with piano hinge factory attached, and latch-side expander.

Single face mounted sweep.

Header stop strip and (2) jamb side stop strips.

Handle set boxed separately and located inside main door carton.

Closer, touch-up paint, install pack (see below), sweep, and sash clips (where applicable) boxed together and located inside main door carton.

Expander Door Installation Pack S-DH-513S

Hinge Jamb Screws:

(16) #8A x 1¼" Phillips Flat Head HD Screws, Part #: S-HS-301-00



Miscellaneous:

(1)pk #6 x 1" Phillips SS (14 screws per pack), Part #: S-HS-738-00



Expander Door Screw Pack S-DH-506S-CC

Expander Screws and Stop Strip Screws:

(35) #6 x ½" Phillips Pan Head Screws. (Color Matched),
Part #: S-HS-783-CC



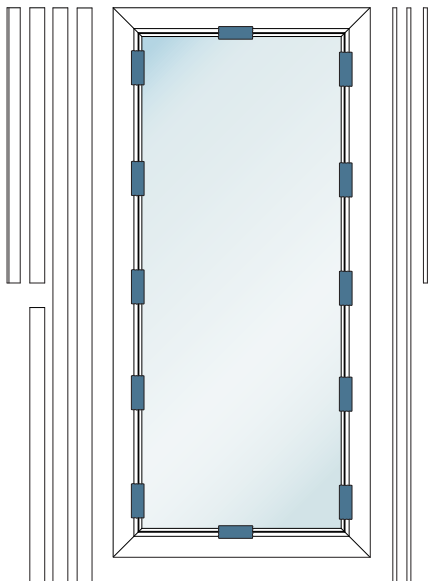
Bottom Expander Screw Pack S-DH-514S-CC

(2) #6 x ½" Phillips Pan Head Screws, (Color Matched),
Part #: S-HS-783-CC



A. INSPECT

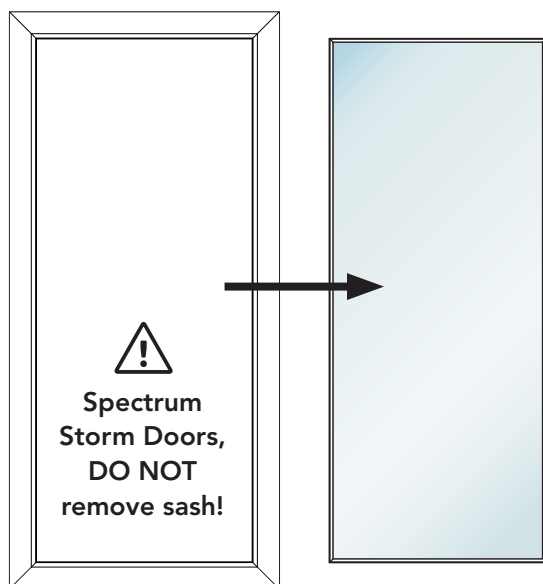
INSPECT STORM DOOR, SCREEN PARTS, EXPANDERS, AND STOP STRIPS



***Check clearance between the storm door and main entry door handle sets BEFORE install**

(Figure A.1)

Remove blue shipping tape
Remove all sash and screen inserts



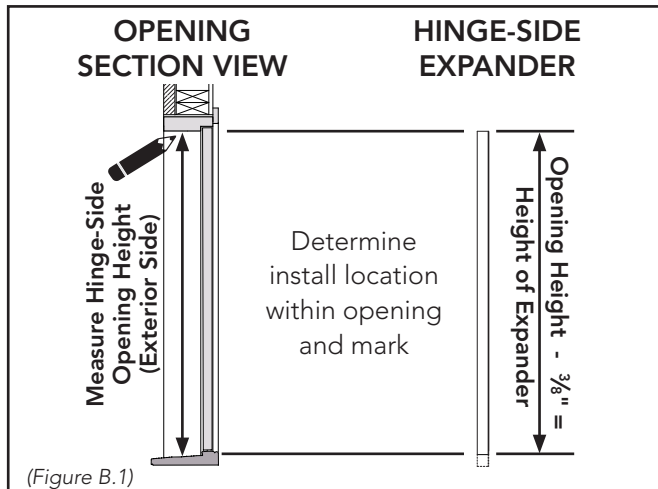
(Figure A.2)



IMPORTANT! For all Decorator™, Deluxe™, DuraGuard™, and Superview™ (with the exception of self-storing and all Spectrum™) storm doors will ship with sash(es) and screen insert(s) mounted in door slab, secured with blue shipping tape.

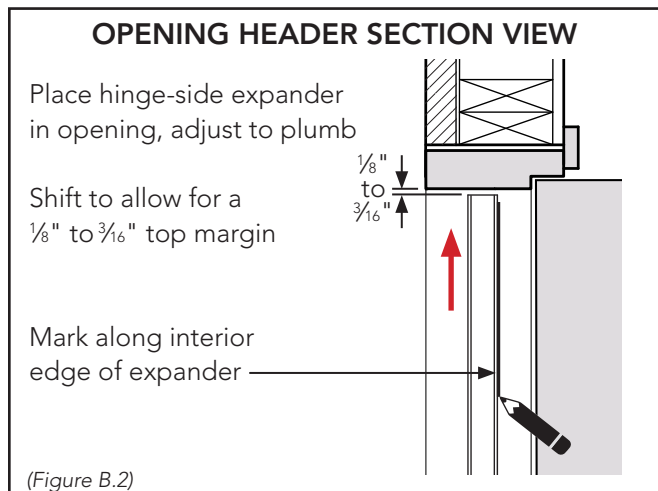
- 1 Confirm existing jamb opening will accommodate new expander storm door. Check opening measurements with bar code label to verify size and order information is correct.
 - 2 Carefully lay door unit onto a protected flat surface (i.e. saw horses) with interior side up, as noted on product box.
 - 3 Unpack and inspect new storm door, all expanders, and stop strips for any material damages. Check glass, screen, and moving parts; locks and all operational hardware. *Note, moving parts can be repaired AFTER window is installed. Scan the product packaging QR Code label to access ProVia's After Sale Product Support to enter a request and post pictures to order, or call Customer Service.* (Figure A.1)
 - 4 **BE SURE TO CHECK** the storm door handle set will not interfere with entry door handle set **BEFORE** the expander storm door is installed. (Figure A.1)
 - 5 For all storm doors, **EXCEPT** Spectrum models, remove blue shipping tape. Then remove all sash and screen inserts. Carefully set aside until after storm door installation. (Figure A.2)
- NOTE:** For Deluxe™, DuraGuard™, and Superview™, sash clips are located in hardware box for sash installation later in this instruction.
- 6 Wipe door slab down with a soft cloth to remove any metal shavings.

B. INSTALLATION



The expander storm door will require field measuring and cutting of all expanders, stop strips, single face mounted sweep, and hole prep for the handle set. This door system is to be mounted within an opening, not as an exterior surface mount.

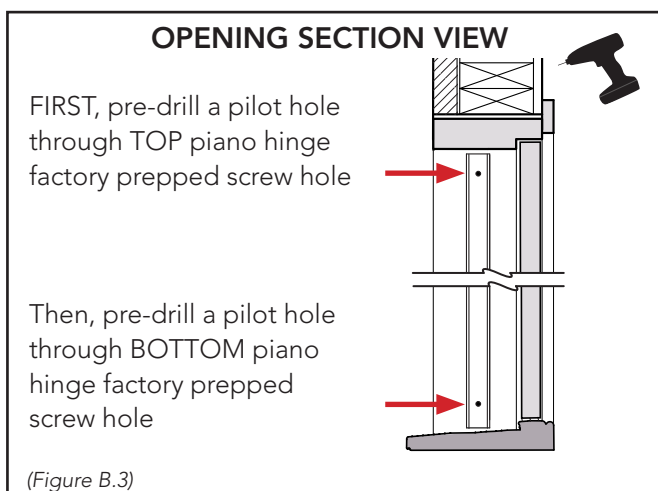
- 1 Determine the installation location for the expander storm door within the jamb opening. Check door handing for correct placement and orientation of jamb-side expanders. *Note, re-check storm door handle set clearance. The interior handle set will project $2\frac{1}{8}$ " from surface of storm door.*



- 2 Measure the hinge-side jamb opening height from top of opening to threshold. **Subtract $\frac{3}{8}$ " from measurement.** Using measurement determined, measure and mark the hinge-side expander from the top down. BE SURE to cut required length from bottom of hinge-side expander. (Figure B.1)

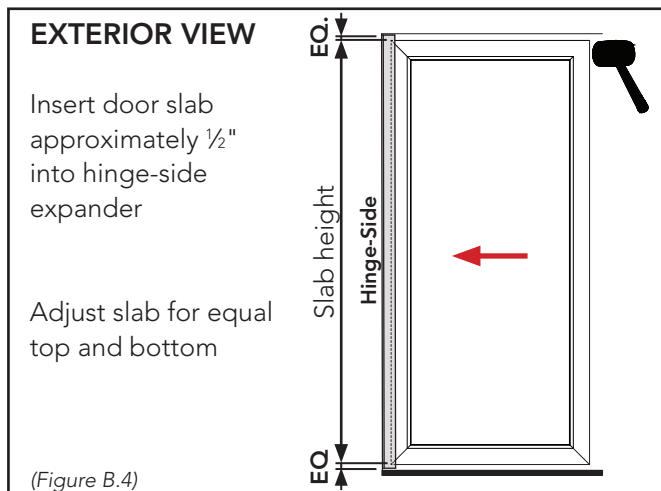
$$\text{Opening height} - \frac{3}{8}" = \text{Hinge-side expander height}$$

- 3 Place hinge-side expander within the determined location of opening. Adjust expander to plumb. Use a pencil, mark along the interior edge to use as an installation guide in following steps. (Figure B.2)



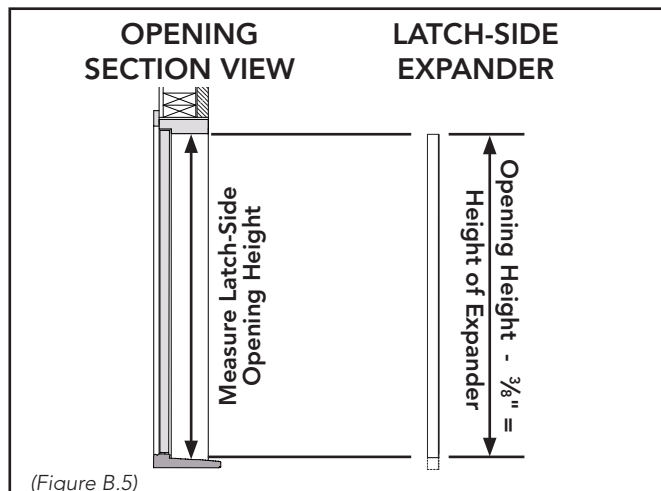
- 4 Locate and hold the expander $\frac{1}{8}$ " to $\frac{3}{16}$ " from top of opening to set the top margin. (Figure B.2)
- 5 Hold interior edge of hinge-side expander along pencil mark and at margin. Pre-drill a $\frac{1}{64}$ " pilot hole through the TOP piano hinge factory prepped screw hole location. Secure using a #8A x $1\frac{1}{4}$ " Phillips flat head screw. Hold bottom of the expander along mark and repeat process with BOTTOM prepped screw hole location. **DO NOT OVER TIGHTEN SCREWS. Doing so can cause hinge to roll, twist, or bind.** (Figure B.3)

B. INSTALLATION (CONTINUED)



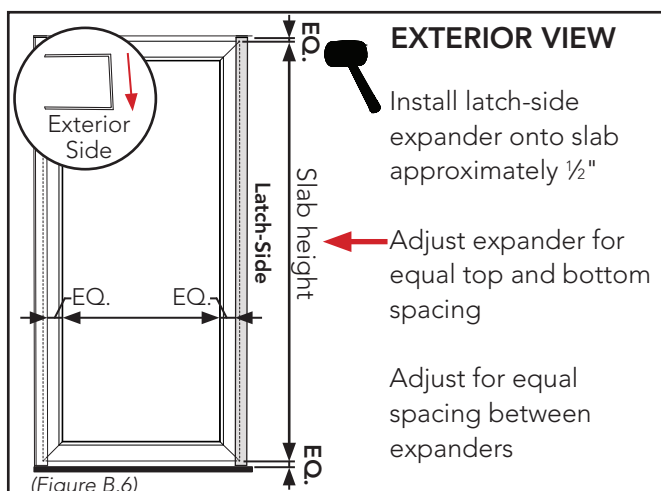
- 6 Drill a 3/64" pilot hole through the MIDDLE piano hinge factory prepped screw hole location. Secure using a #8A x 1 1/4" Phillips flat head screw. Repeat process for all remaining hinge screw hole locations. **DO NOT OVER TIGHTEN SCREWS.** *Doing so can cause hinge to roll, twist, or bind.*

- 7 Correctly orient door slab; top to the top and exterior side to the exterior then insert storm door slab into the fully secured hinge-side expander, approximately 1/2". Vertically adjust slab for equal distance at top and bottom. Use a dead blow hammer or soft mallet to gently tap the top and bottom of slab in place. **DO NOT** tap center of frame, damage may occur. (Figure B.4)



- 8 Measure the latch-side jamb opening height from top of opening to threshold. **Subtract 3/8" from measurement.** Using measurement determined, measure and mark the latch-side expander. (Figure B.5)

$$\text{Opening height} - \frac{3}{8}" = \text{Hinge-side expander height}$$



- 9 With door slab open, install latch-side expander onto slab, approximately 1/2" by gently tapping into place. **BE SURE to orient the expander with the longer flange-side to the exterior.** Position expander with equal top margin as hinge-side expander. (Figure B.6)

- 10 Adjust door slab and jamb side expanders until overall width of the door just clears jamb opening. While adjustments are made, **BE SURE** door slab is centered between jamb side expanders. Check expanders top margin and reset if necessary. (Figure B.6)

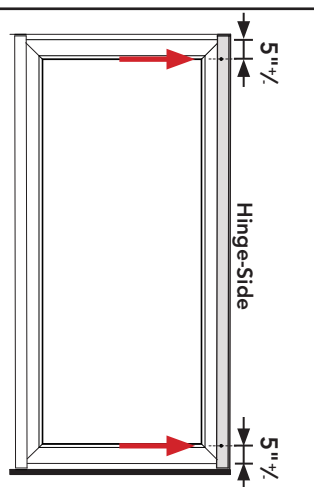
B. INSTALLATION (CONTINUED)

INTERIOR VIEW

Pre-drill a top and bottom pilot hole on interior, locate approx. 5" from top and 5" from bottom

Secure in place

(Figure B.7)



- 11 Fasten hinge-side expander to hold in place. Pre-drill (1) top and bottom $\frac{3}{32}$ " pilot hole on the interior surface. Locate approximately 5" down from the top and approximately 5" up from the bottom to clear corner gussets. Use #6 x $\frac{1}{2}$ " Phillips pan head screws to secure. (Figure B.7)

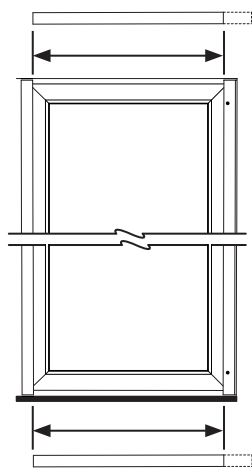
- 12 Measure door width between the flange edge of vertical expanders, both top and bottom. Using measurements determined, measure and cut the top and bottom expanders to required length. (Figure B.8)

ELEVATION VIEW

Measure between expanders at top of door then cut top expander to length

Measure between expanders at bottom then cut bottom expander to length

(Figure B.8)



- 13 With door open, install top and bottom expanders by tapping into place. Adjust top expander for an equal $\frac{1}{8}$ " to $\frac{3}{16}$ " margin across full width, flush with top margin of jamb-side expanders previously determined. Adjust bottom expander to be flush with bottom of jamb-side expanders. BE SURE door slab is centered between top and bottom expanders. (Figure B.9)

NOTE: Top and bottom expanders SHOULD NOT extend onto jamb-side expanders.

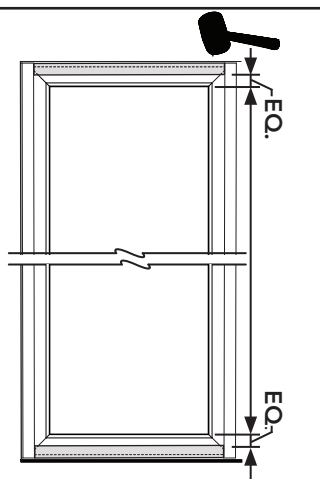
ELEVATION VIEW

Install top expander with an equal $\frac{1}{8}$ " to $\frac{3}{16}$ " margin across width

Install and adjust bottom expander to be flush with bottom of jamb-side expanders

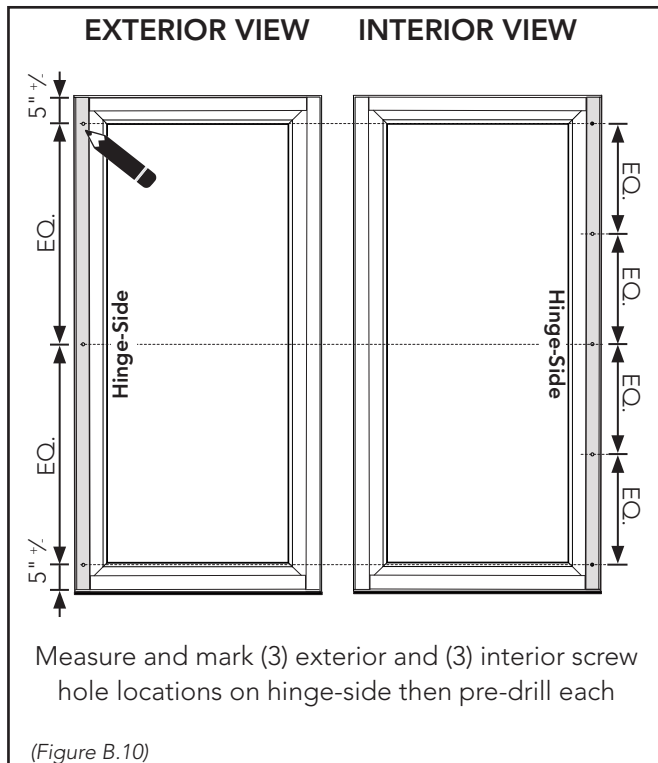
Adjust slab to center

(Figure B.9)



- 14 Close door. Re-check all expanders for equal margins and door slab is equally centered.

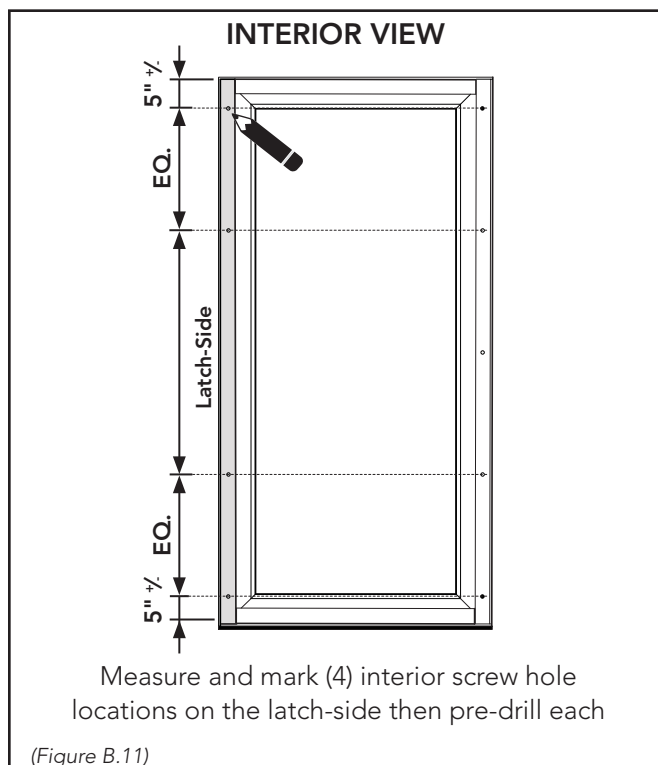
B. INSTALLATION (CONTINUED)



! IMPORTANT! Steps 15 - 17 instruct for pre-drilling all of the expander screw hole locations **ONLY**. **DO NOT SECURE WITH SCREWS UNTIL ALL (4) EXPANDERS HAVE BEEN PRE-DRILLED.**

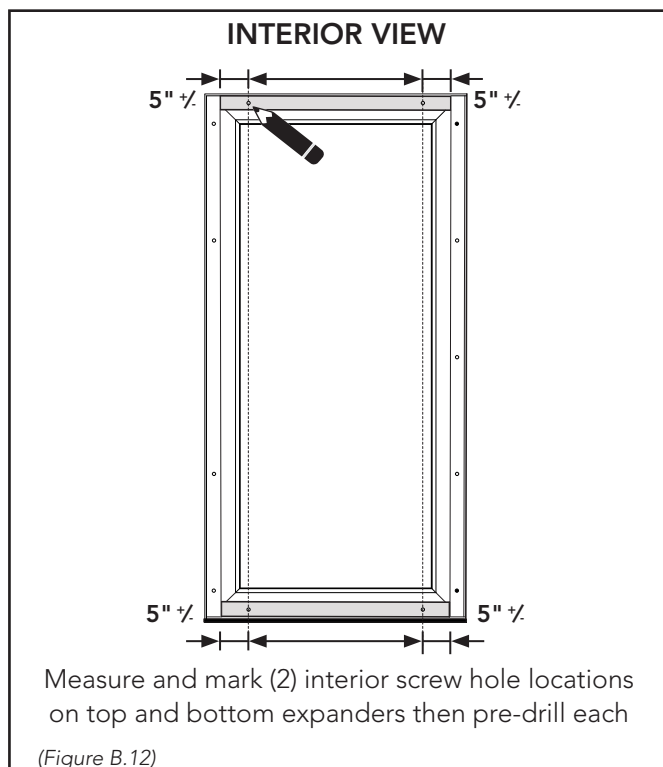
- 15** Measure and mark all the hinge-side expander screw hole locations, both interior and exterior surfaces as noted below. Pre-drill a $\frac{3}{32}$ " pilot hole at all locations marked. BE SURE each top screw hole is located approximately 5" down from the top and each bottom screw hole is approximately 5" up from the bottom to clear corner gussets. (Figure B.10)

- **EXTERIOR SURFACE:** pre-drill (3) screw hole locations; top, bottom and (1) evenly spaced between.
- **INTERIOR SURFACE:** pre-drill (3) additional screw hole locations; (3) evenly spaced between the previously installed top and bottom screws.



- 16** Measure and mark the latch-side expander screw hole locations, interior surface side only. Note location of interior handle set. Pre-drill (4) $\frac{3}{32}$ " pilot hole locations; top, bottom, and (2) evenly spaced above and below storm door handle set location (match the hinge-side interior screw hole locations as shown). BE SURE top screw hole is located approximately 5" down from the top and bottom screw hole is approximately 5" up from the bottom to clear corner gussets. (Figure B.11)

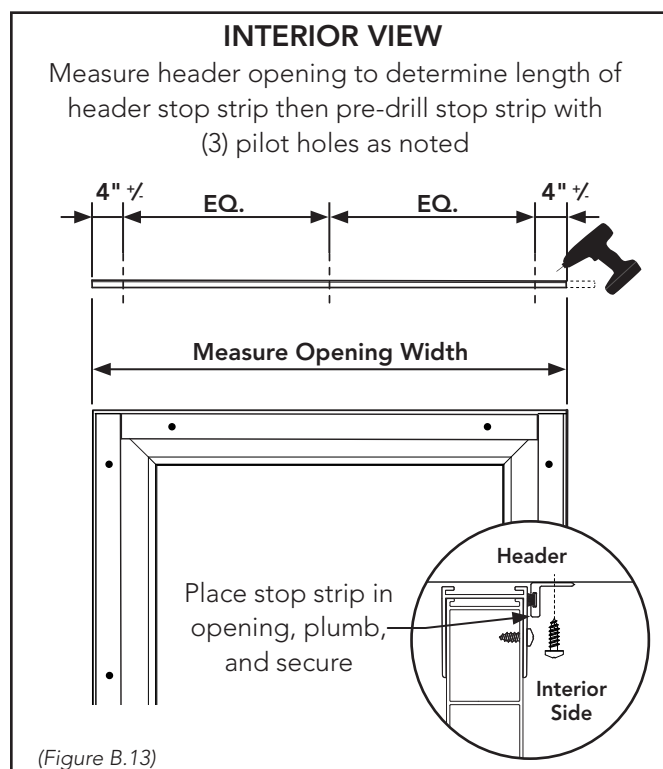
B. INSTALLATION (CONTINUED)



17 Measure and mark top and bottom expanders, interior surface side ONLY. For each expander, pre-drill (2) $\frac{3}{32}$ " pilot holes approximately 5" in from each edge. (Figure B.12)

18 Final check on the spacing of the expanders on the door slab.

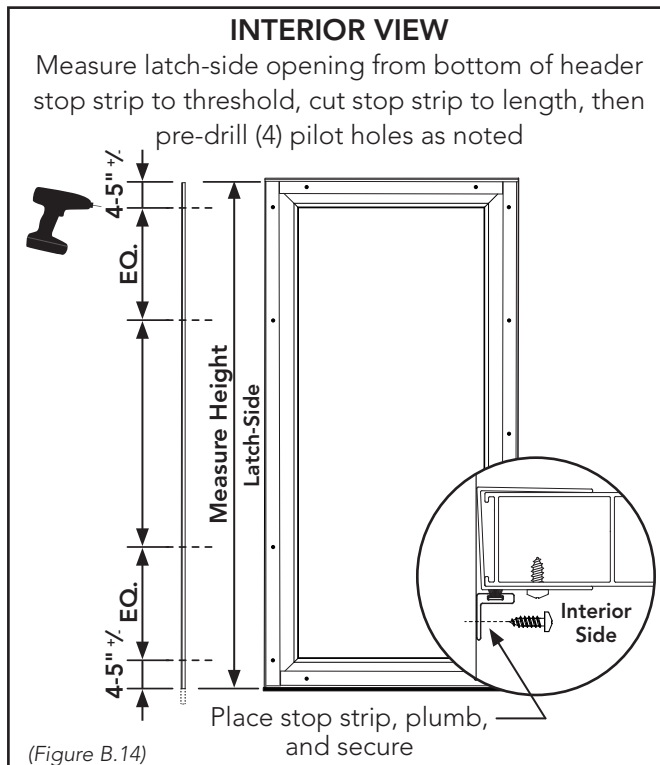
19 Secure ALL the pre-drilled screw hole locations with a #6 x $\frac{1}{2}$ " Phillips pan head color matched screw on each expander.



20 From the interior-side, measure the header opening. Use the measurement to measure and cut the header stop strip to the required length. Pre-drill (3) $\frac{3}{16}$ " pilot hole locations; (1) approximately 4" in from each end and (1) centered in the stop strip. (Figure B.13)

21 Close the door. From the interior-side, place header stop strip in the opening and set plumb to door slab. Secure with the #6 x $\frac{1}{2}$ " Phillips pan head color matched screws through each pre-drilled screw hole location. Jamb may need to be pre-drilled depending on material type. (Figure B.13)

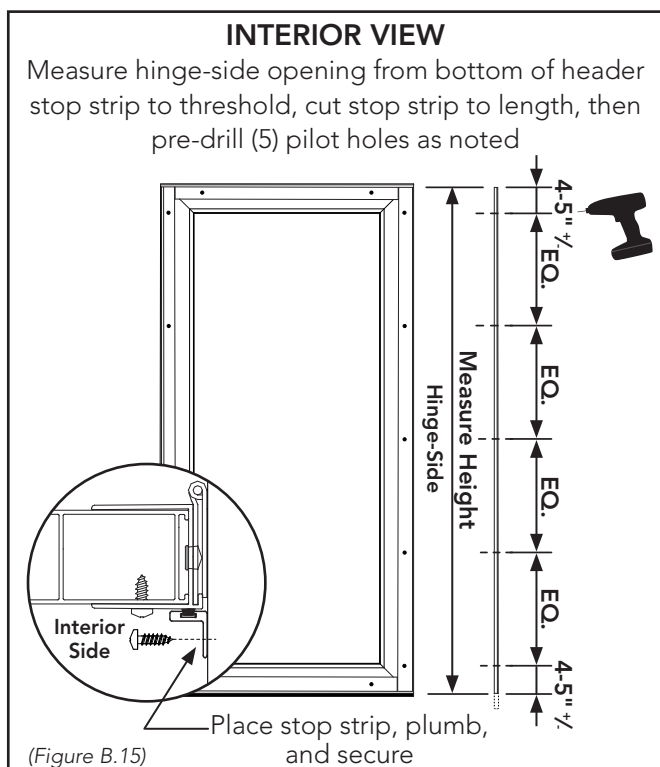
B. INSTALLATION (CONTINUED)



- 22** From the interior, measure latch-side opening height from bottom of header stop strip to threshold. Use measurement to measure and cut a vertical stop strip to the required length. Pre-drill (4) $\frac{3}{16}$ " pilot holes; top, bottom and (2) evenly spaced above and below handle set. If possible, match latch-side expander screw locations. (Figure B.14)

- 23** With the door closed, place the latch-side stop strip in the opening and set plumb to door slab. Secure with the #6 x $\frac{1}{2}$ " Phillips pan head color matched screws through the (4) pre-drilled screw holes. Jamb may need to be pre-drilled depending on material type.

- 24** From the interior, measure the hinge-side opening height from bottom of header stop strip to threshold. Use measurement to measure and cut a vertical stop strip to the required length. Pre-drill (5) $\frac{3}{16}$ " pilot holes; top, bottom and (3) evenly spaced between. If possible, match hinge-side expander screw locations. (Figure B.15)

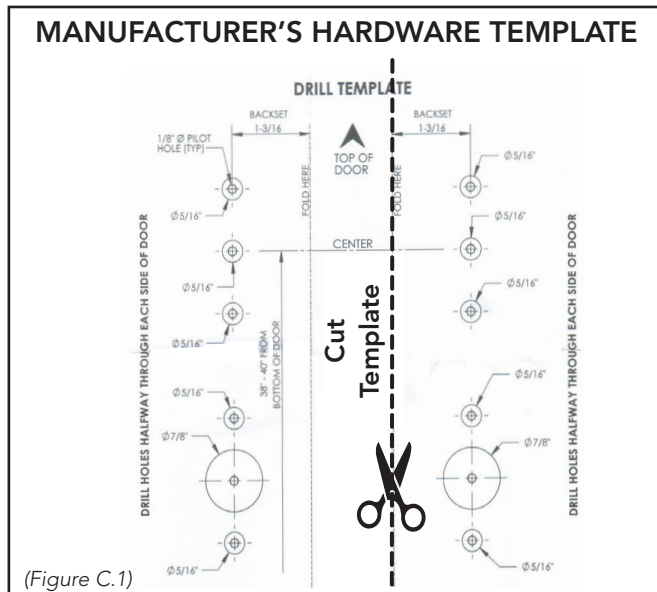


- 25** With the door closed, place the hinge-side stop strip in the opening and set plumb to hinge. Secure with #6 x $\frac{1}{2}$ " Phillips pan head color matched screws through the (5) pre-drilled screw holes. Jamb may need to be pre-drilled depending on material type.

IMPORTANT! Glass insert(s) should be installed **AFTER** the handle set prep and installation for easier accessibility. Complete Section C before re-installing glass sash.

IMPORTANT! Single sweep bottom expander will be installed after glass sash is re-installed. Returning door slab to full weight will marginally drop door, therefore allowing for correct placement of the bottom sweep.

C. INSTALL HARDWARE

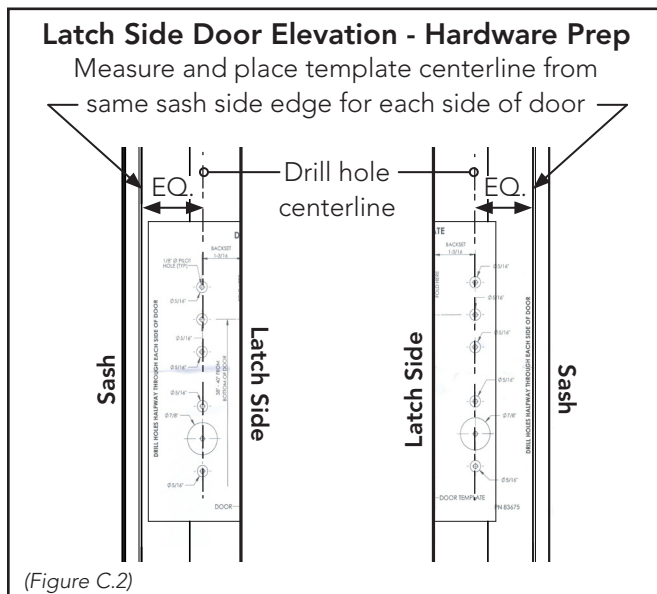


(Figure C.1)

- 1 Use manufacturer's drill template provided in hardware box to locate and mark handle set holes. Fold and cut template on (1) of the dotted lines.

DO NOT WRAP TEMPLATE AS INSTRUCTED ON TEMPLATE. The template will not properly align when wrapped on the expander door. Position folded side of template along the strike-side edge of the door slab as directed. Tape in place. (Figure C.1)

- 2 Measure from a common edge on the sash-side of the frame rail to the centerline of template drill holes. Use the measurement and corresponding edge on the opposite side of door to locate template. Tape in place.



(Figure C.2)

- 3 Drill all template holes as indicated. Remove each section of template and proceed with manufacturer's handle set installation instructions. (Figure C.2)

NOTE: If hardware drill holes align with edge of expander, the included shims will be required. Trim and install as needed.

! IMPORTANT! DO NOT USE a power tool to install handle set hardware. Doing so can cause damage and void warranty. DO NOT OVER TIGHTEN SCREWS.

Windsor Handle Set
Install Instruction
With Template



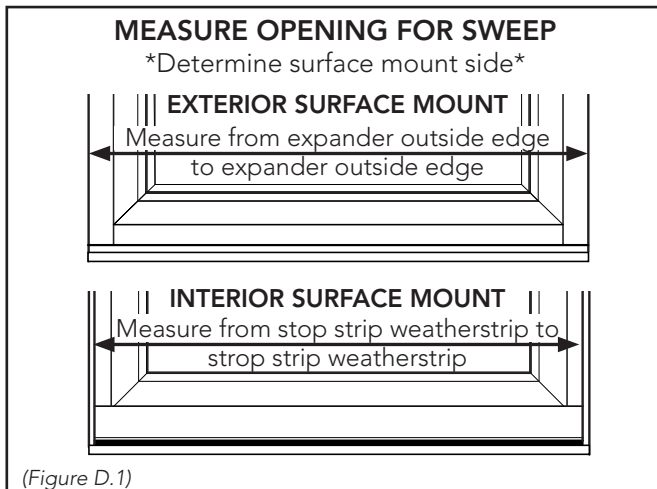
Townsend Handle Set
Installation Instruction
With Template



Contemporary Curve
Handle Set Installation
Instruction With Template



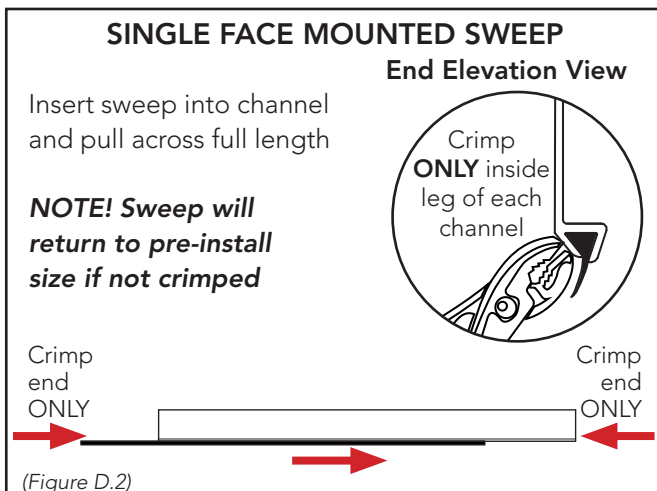
D. INSTALL GLASS INSERT AND FLAT BOTTOM SWEEP



- 1 Re-install sash insert(s) if applicable. For storm doors using sash clips to secure the sash or screen, locate clips in the hardware box. Install clips into all rivnut locations.

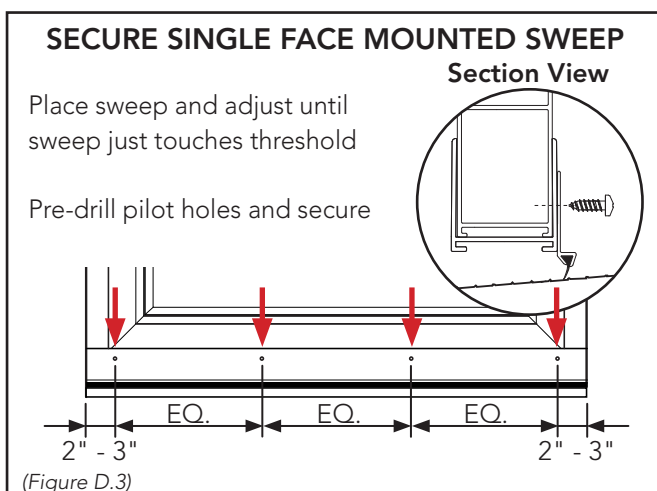
NOTE: If sash clip will not install due to a loose rivnut, call Customer Service for replacement. A rivnut tool kit, part # S-ST-963S, will be sent for the repair.

- 2 Determine if single face mounted sweep will be mounted to the interior or the exterior surface of door. Use slope of threshold to help establish.



- 3 From the determined door slab side, measure the bottom door width, as noted below, to measure and cut the single face mounted sweep to length.

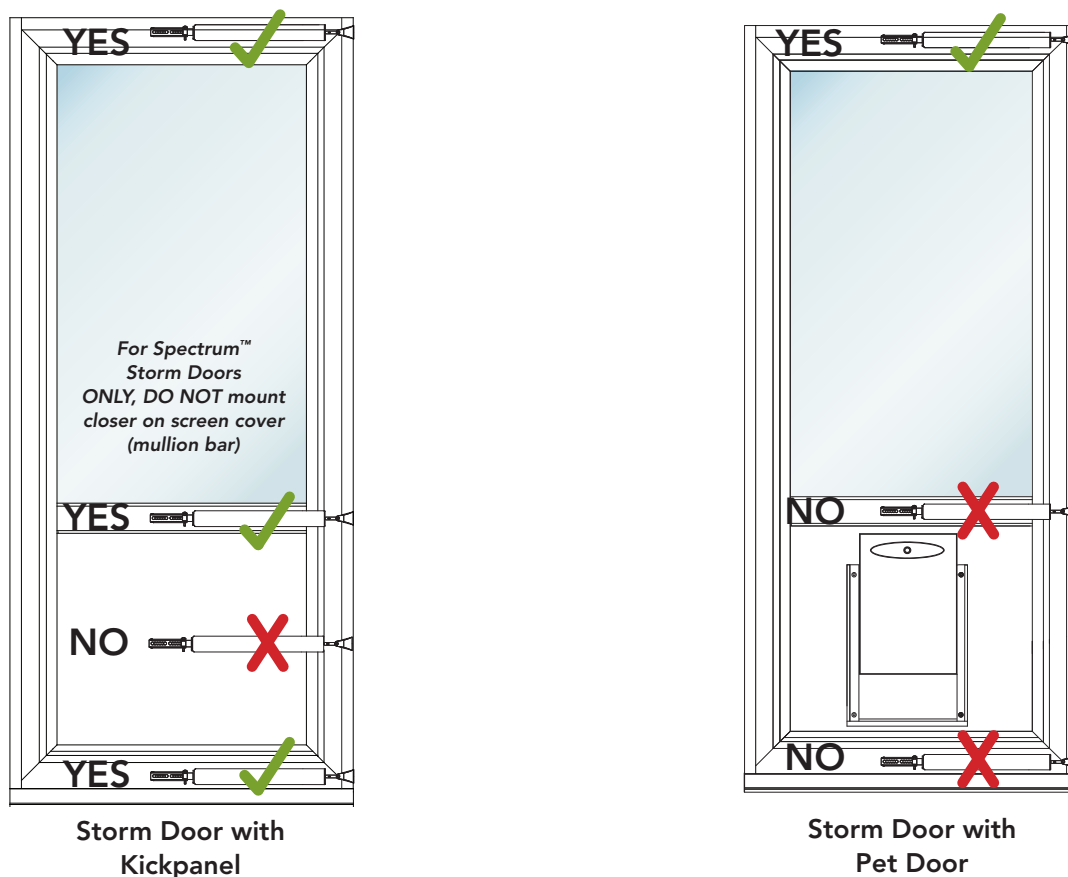
- **Exterior Mount:** Measure outside expander to outside expander. (Figure D.1)
- **Interior Mount:** Measure from stop strip weatherstrip to stop strip weatherstrip. (Fig. D.1)



- 4 Insert the black rubber sweep into the bottom channel on of the face mounted sweep. Pull rubber sweep across the full length of channel. BE SURE to NOT stretch sweep before proceeding to next step. From each end, crimp **ONLY** the **INSIDE** leg of the channel closed to secure sweep in place. Refer to detail in Figure D.2. Trim as needed. (Figure D.2)
- 5 Place the face mounted sweep on the determined side of the door slab. Adjust until sweep just touches the threshold. Pre-drill (4) $\frac{7}{64}$ " pilot holes; (1) approximately 2" - 3" from each end and (2) evenly spaced between. Secure with #6 x $\frac{1}{2}$ " color matched screws. (Figure D.3)

E. INSTALL CLOSER

CLOSER MOUNTING LOCATIONS - INTERIOR VIEW



(Figure E.1)

- 1 Install closer. Determine mounting location. (See Figure for correct mounting locations.) **DO NOT mount closer on kickpanel. DO NOT mount closer above or below a pet door. For Spectrum™ ONLY, DO NOT MOUNT CLOSER ON SCREEN COVER(S).** Follow manufacturer's instruction (included) to install the closer. Use the pre-load clip located on closer piston as indicated in the manufacturer's instruction for best results. Closer should be installed using the front hole of the closer end plug. (Figure E.1)

Recommendation: ProVia® strongly recommends installing the closer wind chain. Refer to the QR code shown for video on the wind chain installation.



NOTE: Refer to the QR Code at the end of this instruction for a helpful video on storm door closer installation and adjustments.



TROUBLESHOOTING & TIPS

PROBLEM	CAUSE	SOLUTION
Door will not close	1. Air pressure between primary door and storm door (air is trapped). 2. Closer speed needs adjusted.	1. Slightly raise single face mounted sweep until sweep(s) just touches the threshold. 2. Refer to closer instruction for adjustments.
Hinge-side of door is binding	Piano hinge is not plumb with jamb.	Place a putty knife between hinge and jamb. Slightly turn knife towards door slab to remove any bind in piano hinge.
Strike-side of door will not close	Strike plate will not engage with handle set.	Remount strike plate, add (2) shims (included) to plate, and reinstall.
Storm door is squeaking	1. Hinge-side jamb screws are too tight. 2. New hinge is tight.	1. Back off screws ¼ of a turn. 2. Spray hinge with a silicone lubricant.

****Please call Customer Support for additional installation inquiries at 1-800-669-4711.***

****For additional information and helpful videos, SCAN or TAP the QR Codes.***

VISIT OUR INSTALLATION SUPPORT HOMEPAGE



**VIDEO: Critical Steps
for Expander Storm
Door Installation**



**VIDEO: Storm Door
Closer Installation
and Adjustment**



**Closer Installation
(Manufacturer's
Instruction)**



**VIDEO: Storm Door
Wind Chain
Installation**



**Replacing Storm
Door Key Cylinder
Instruction**



**Condensation,
Humidity, Dew Pt
Flyer**



**VIDEO: Spectrum
Balancer Replacement
Instruction**



**VIDEO: Spectrum
Screen Replacement
Instruction**



**Storm Door User Manual:
Operation & Maintenance
For All Series & Models**

