ES-BF5010T







HSEQ REGULATIONS

Read all instructions carefully before attempting this procedure. If you have any questions about your ability to complete this procedure, contact ESWINDOWS for further direction.

If swing stages are required for installation, the HSEQ inspector must approve the permissions.

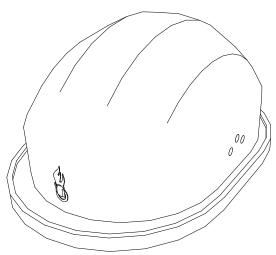
- Wear the necessary personal protective equipment for product installation.
- Take safety precautions when performing the activity.
- Please follow the steps and make sure you have appropriate personal protective equipment and follow the rules established by the guidance for working at height, if required to do so.

INTRODUCTION

ES-BF5010T is a folding door system.

This guide illustrates step by step the correct way to install the system.

Prior to installation check that all parts, glass and materials are in right conditions, verify that the quantities and descriptions match production planes.







INSTALLATION INSTRUCTIONS

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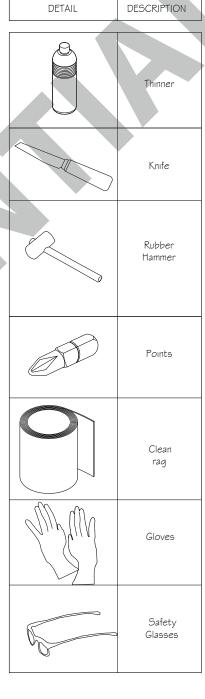




TOOLS AND SUPPLIES REQUIRED FOR INSTALLATION

	TOOLS AN
DETAIL	DESCRIPTION
	Drill
Sem January 1997	Tape Measure
	Hammer
	Phillips Screwdriver
	Slot Screwdriver
	Level
	High impact plastic shims

DETAIL	DESCRIPTION
Go V	Plumb
	Thread
	Silicone Gun
	Bits for Concrete
	Brush
	Masking tape
	Isopropyl Alcohol





PA	RTS REQUIRED FOR INSTALLATION	ON
PART	DETAIL	DESCRIPTION
ES-BF5010T-501		HEAD
ES-BF5010T-502		SILL
ES-BF5010T-503		JAMB
ES-BF5010T-507		SILL (ADA)
ES-6011		SILL SCREW COVER





PARTS REQUIRED FOR INSTALLATION			
PART	DETAIL	DESCRIPTION	
E4PSS	10 o 2 o 3	PIVOT SET	
E4ICSS		INTERMEDIATE CARRIER SET	
E40CSS		OFFSET CARRIER SET	
E4HS\$		HINGE SET	
E4HSS		STRAIGHT HINGE	
E4HHSS		HINGE	
E4HHNHS		SINGLE HINGE	



INSTALLATION INSTRUCTIONS



m
3 POINT LOCK
FLUSH HANDLE
LCL 2 1/4"STRIKE PLATE RH/LH
WALL PIVOT SET
EXTENDED FLANGE STRIKE @ JAMB
BOTTOM STEEL PLATE
TOP STEEL PLATE
MMMMc> TO FRAME
FOR PIVOT PLATE
FLUSH BOLT KEEPER
ADHESIVE PILE PAD
BUMPER
_



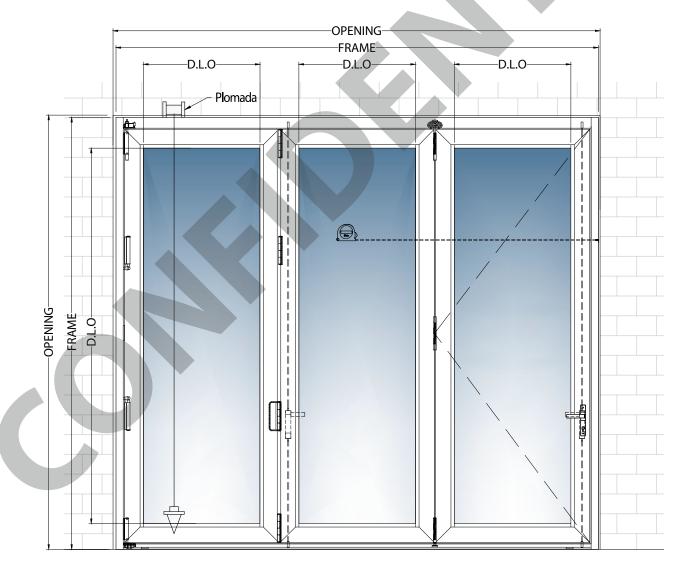
Check the technical manuals and guides by sealant manufacturers to apply silicone correctly.





INSPECTION AND VERIFICATION:

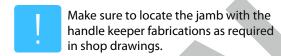
- 1.1. Check the opening for the correct size as determined by dimensions listed in the architectural specifications and the shop drawings.
- 1.2. Check all the material upon arrival for quantity and damages.
- 1.3. Remove debris that interfere with the proper installation of the unit.
- 1.4. If any irregularities are detected notify the general contractor.



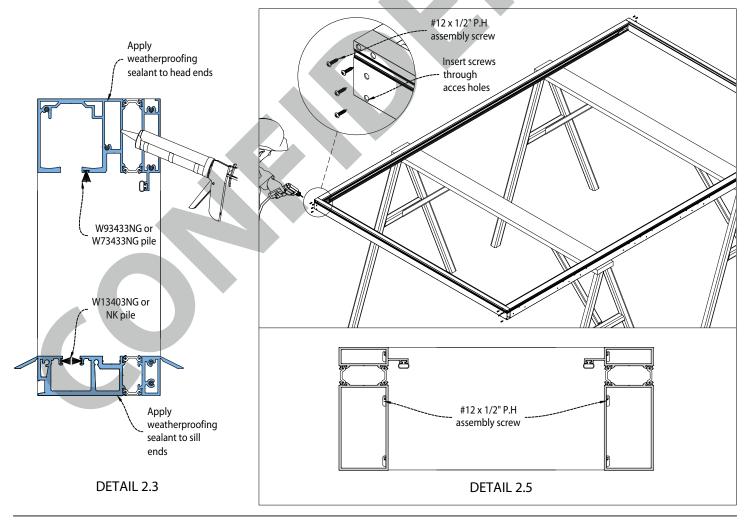




FRAME ASSEMBLY:



- 2.1. Clean all aluminum surfaces to be in contact with sealant.
- 2.2. Verify shop drawings to locate the frame parts properly. Place head, sill and jambs on a workshop table or sawhorse for assembly.
- 2.3. Verify that piles where properly installed in the sill as shown. Apply sealant onto head and sill end faces as shown in detail.
- 2.4. Assemble the frame with $#12 \times 1/2$ " P.H screws. Tool sealant into joints and apply weatherproofing sealant to screw heads and bodies.









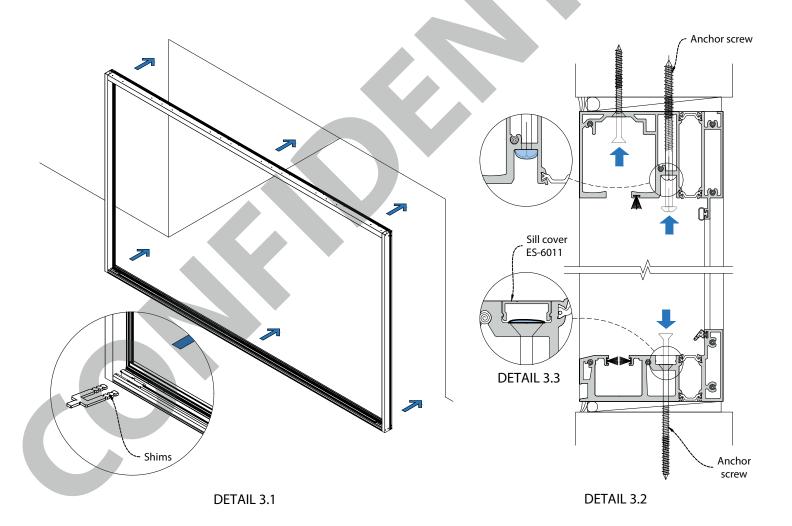
Level frame only with plastic shims.



Verify shop drawings for anchor screws specifications.

FRAME INSTALLATION:

- 3.1. Place the frame in the opening and shim frame as required.
- 3.2. Use frame holes as a guide to drill and install.
- 3.3. Seal screw heads and install sill cover as shown in detail 3.3.

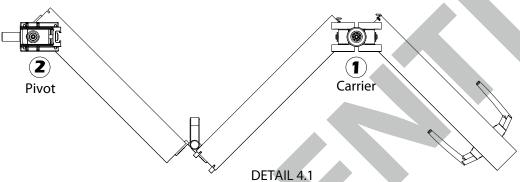




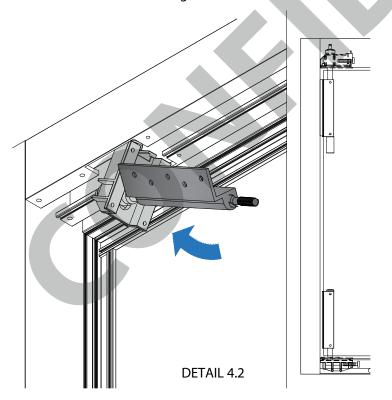
INSTALLATION OF ACCESSORIES:

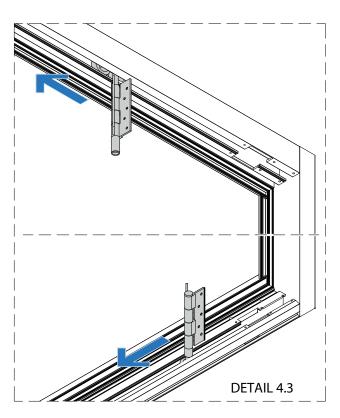
4.1. Verify shop drawings to identify where to install carriers and pivots in the frame according to each door configuration.

INSTALLATION SEQUENCE EXAMPLE



- 4.2. First install center carriers, then continue with pivots. Install by inserting them on the sill and head as shown in detail. Bottom pivot must be installed without hinges.
- 4.3. Place carriers in their final positions by sliding it in the sill and head raceways (Verify shop drawings).



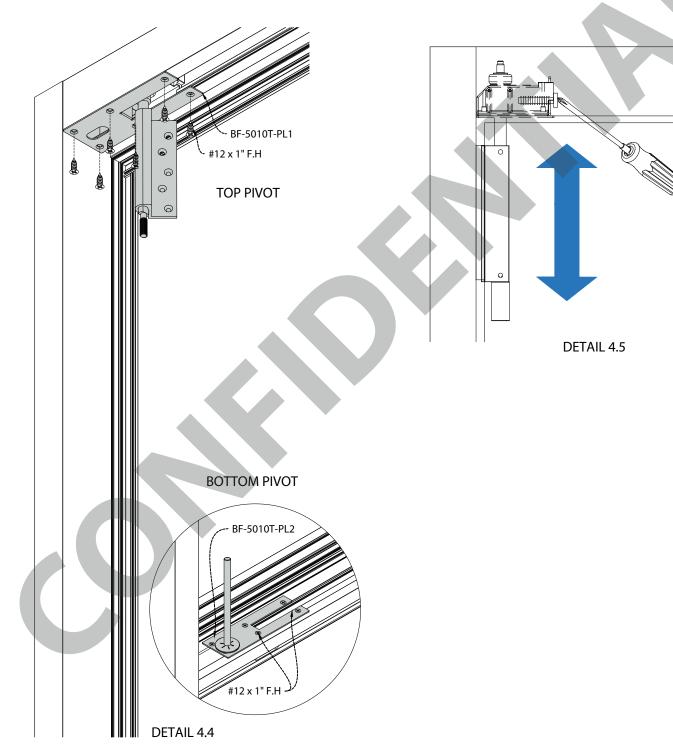






Proceed with the installation of the top and 4.4. bottom aluminum plates for the pivot E4PSS.

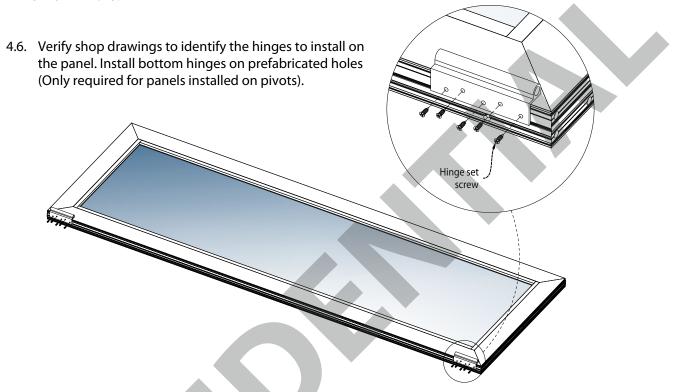
Adjust carriers if required to level the hinges. 4.5.



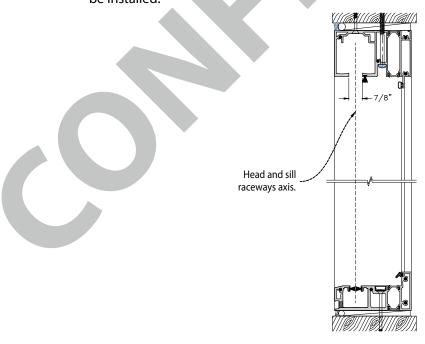




INSTALLATION OF HINGES:



4.7. Prior to panels installation verify shop drawing to identify if jamb hinges are required. For jamb hinges mark in the jambs a reference line of the sill and head raceways axis; where jamb hinges will be installed.



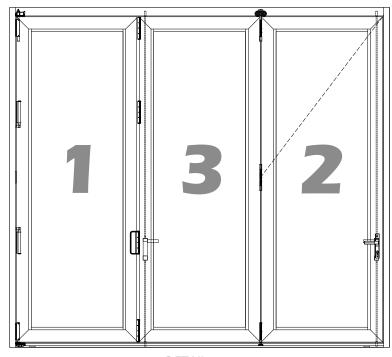




INSTALLATION OF PANELS:

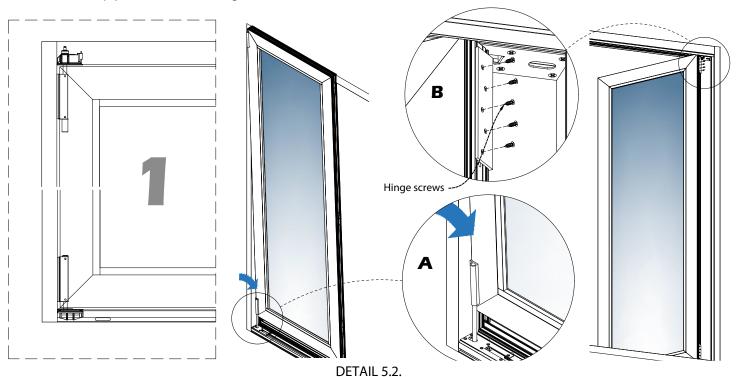
5.1. Identify where to install each panel in the frame according to the shop drawings.

Begin with the installation of the panels on the carriers and pivots, then install center panels attaching them to the hinges.



DETAIL 5.1.

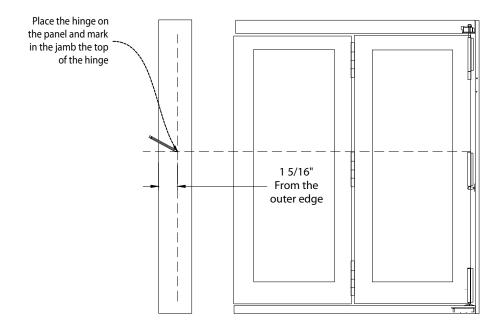
5.2. 1. Installation of panels on pivots: Fit in the bottom hinge of the panel on the bottom pivot (A), then rest the panel on the top pivot and install hinge screws as shown in detail (B).



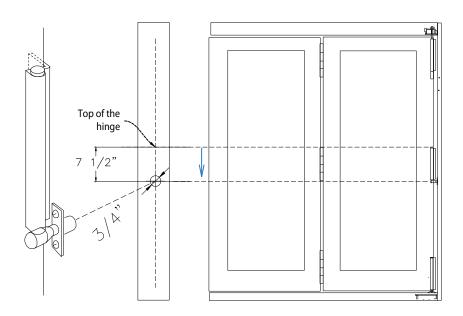




5.3. Proceed with the installation of the jamb hinges (only if required on shop drawings). Match hinge and panel perforations. Mark a reference line in the jamb of the hinge top.



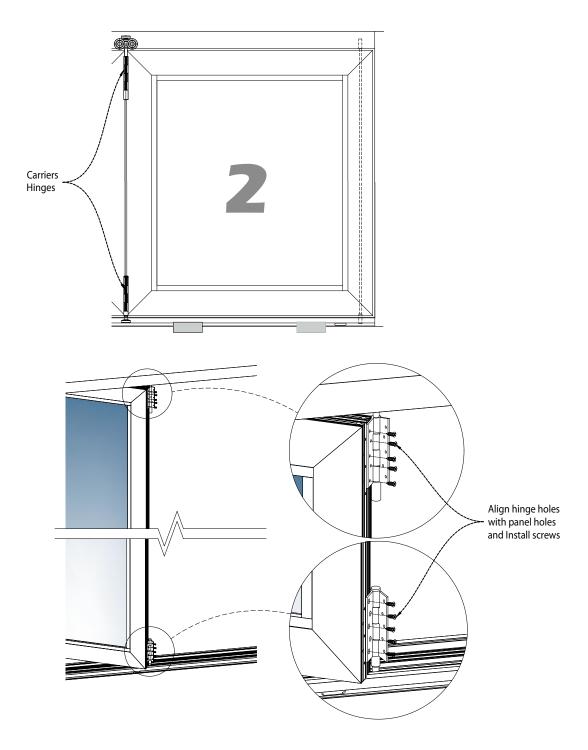
5.4. Mark the center of the hole where the hinge will be inserted 7 1/2" from the top of the hinge and drill a 3/4" hole. Install hinge and attach panel with the screws.







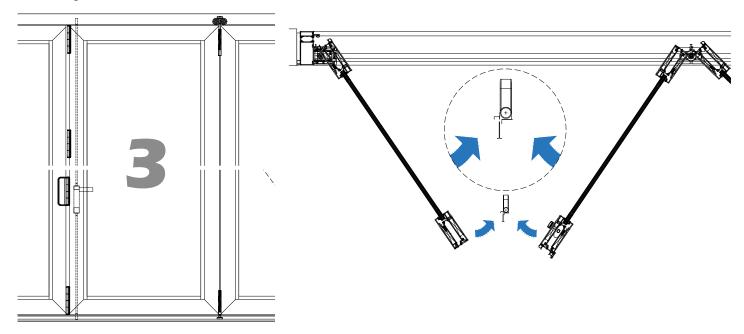
5.5. Installation of panels with carriers: Place the panel on the frame, use a base to rest the panel while installing hinge screws.



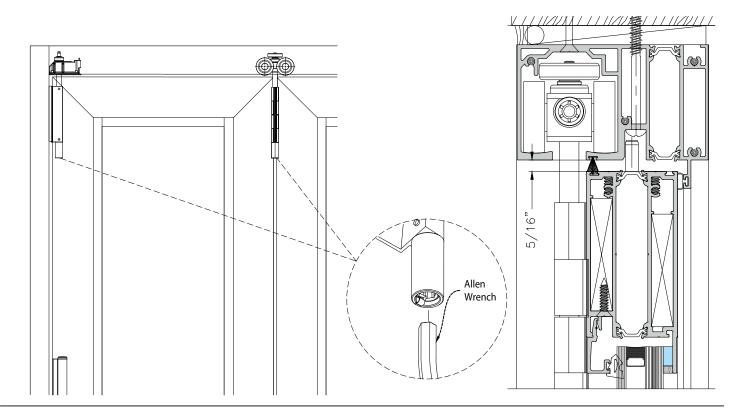




Installation of panel with hinges: Verify shop drawings for the location of hinges. Assemble the panels with the 5.6. hinges and the screws.



5.7. Adjust carriers with the help of an Allen wrench to guarantee the tolerance between the frame and the panel.



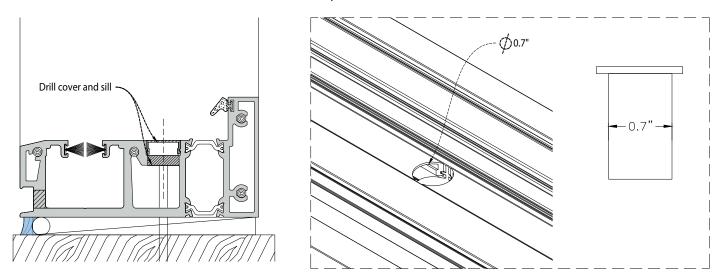




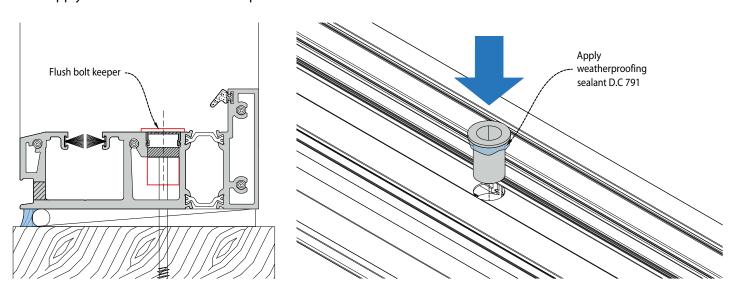
INSTALLATION OF BOLT KEEPER AND PILE PADS:

Installation of flush bolt keeper:

6.1. Identify the location of the flush bolt keeper, this must be located in the sill cover to receive handle flush bolts, make a mark in the sill and cover. Make a 0.7" hole perforation in the cover and sill.



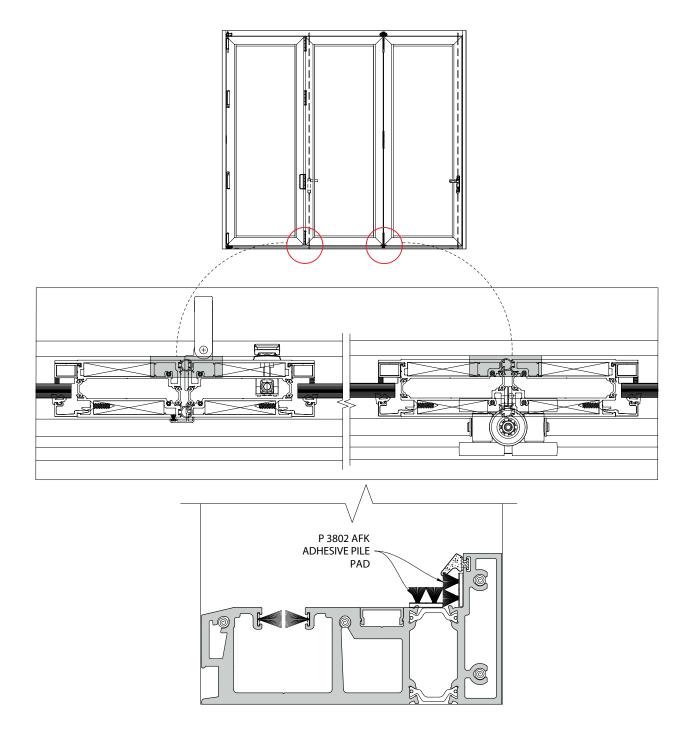
6.2. Apply sealant to the flush bolt keeper and install as shown in detail bellow.







6.3. Installation of adhesive pile pads: Install adhesive pile pads (P 3802 AFK) at the sill, under panel joints or under meeting points as shown in detail bellow.

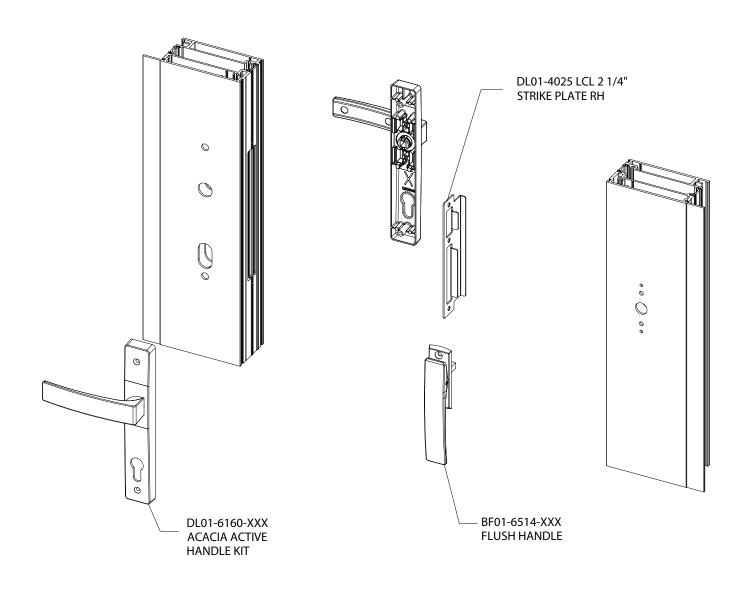






INSTALLATION OF HANDLES:

7.1. Verify shop drawings to identify the location of the handles. Install handles as shown in detail.



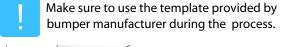


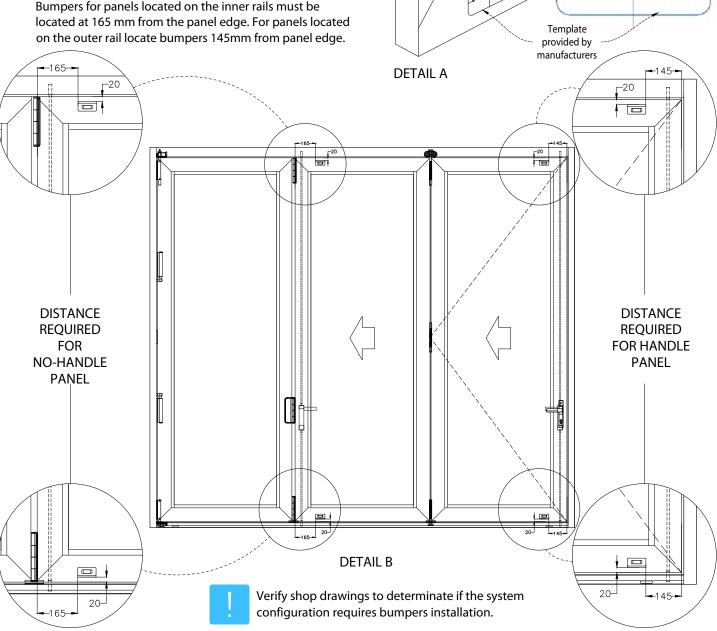


BUMPER INSTALLATION:

- 8.1. Verify shop drawings to identify the bumpers location.
- 8.2. Mark bumpers location using template provided by manufacturers(A) and pre-drill required perforations per bumper according to shop drawings details in the panels leaving the distance shown at detail (B).

Bumpers for panels located on the inner rails must be

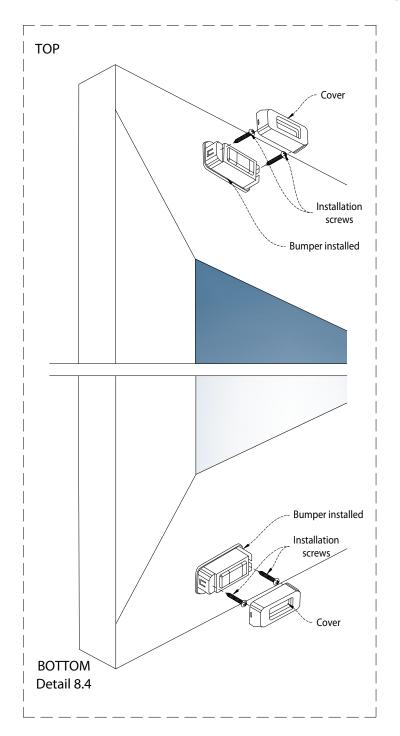


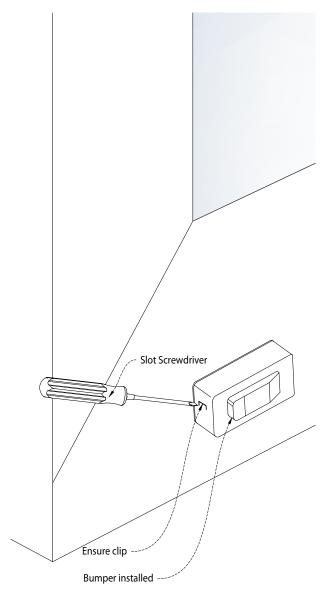






- 8.4. After pre-drilling the screw hole, attach the set into the door panel using the screws included in the set.
- 8.5. Add the cover, ensuring the clip is through the slots on each side.
- 8.6. Repeat procedure for each door catch.

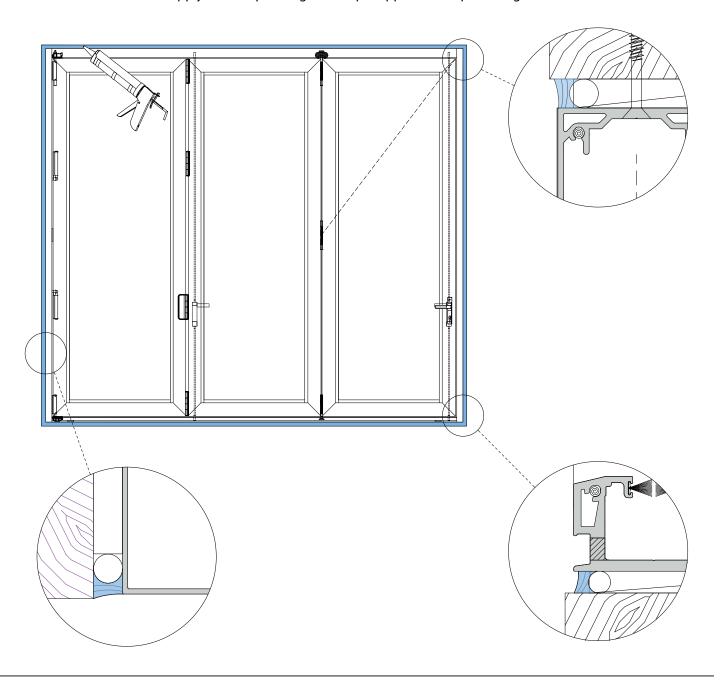






PERIMETER SEAL:

9.1. Insert backer rods and apply weatherproofing sealant per approved shop drawings.







REVISION No.	DATE	DESCRIPTION	BY.	PAGE.
2	02-03-17	Installation of adhesive pile pads and flush bolt keeper update	SG	16-17
3	22-11-17	Bumper installation was added	МС	19-20
4	31-05-19	Hinge installation note: 1 5/16" from outer end of jamb, was added.	ES	13

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