

### Manufacturer's Handbook

All P.V.C Welded
Patio Door Frame S-8000
(Used for S-8800 & 8750)



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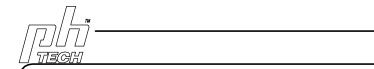


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#### 1.1 Introduction

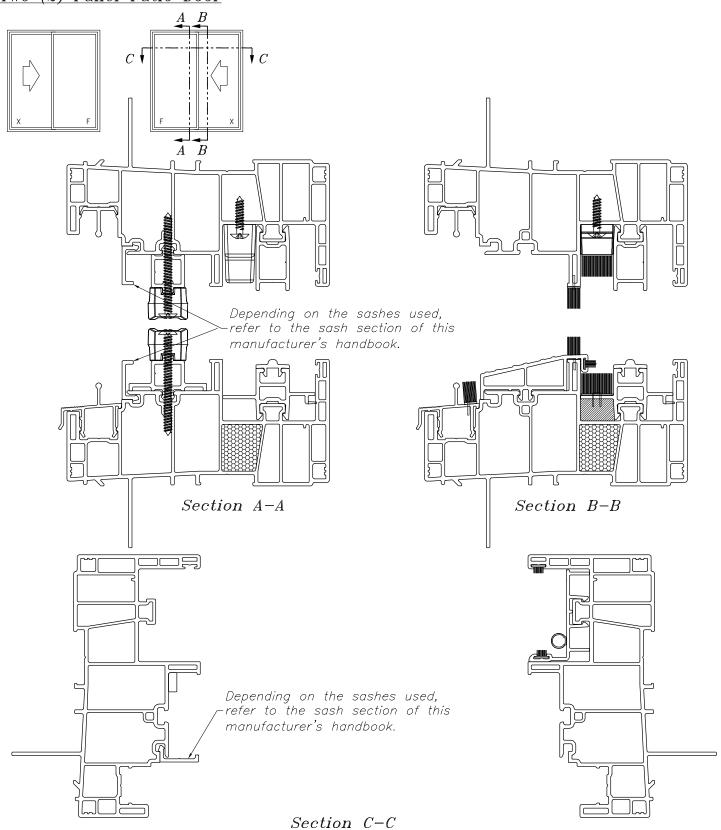
REVISION: 2012/02/02

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1

# 1.1.1 All P.V.C. Welded Frame Section

#### Two (2) Panel Patio Door





All P.V.C. Welded Patio Door Frame

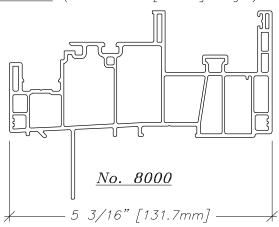
1.2 Catalog of Parts

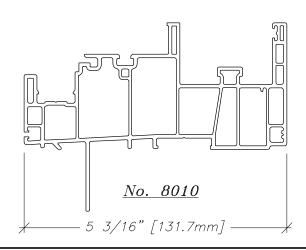
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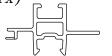
### 1.2.1 Profiles for the Frame

Main Frame (Sold in 16' [4.88m] length)





Operating Support Panel
No. 8021 (1x) \_ \_



Bottom Fixed Support Panel No. 8001/8101 (1x)





Head Track No. 8002 (1x)

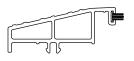


Head Screen Track
No. 8012 (1x)

 $\begin{array}{lll} \underline{Jamb\ Track\ No.\ 8004} \ (1x) \\ -\underline{Weatherstrip\ No.\ 9571} \\ (Schlegel\ No.\ \underline{PB-8420-270}) \ (1x) \end{array}$ 



Sill Protector No. 8011/8111(1x)
-Weatherstrip No. 8988
(Schlegel No. FS-7630-187) (1x)



Aluminum Outside Sill Cladding
No. 9791 (1x) (Sold in 16' [4.955m] lenght)



Aluminum Rolling Rail No. 9790 (1x) (Sold in 16' [5.400m] lenght)



7003.

BLM66



#### 1.2 Catalog of Parts

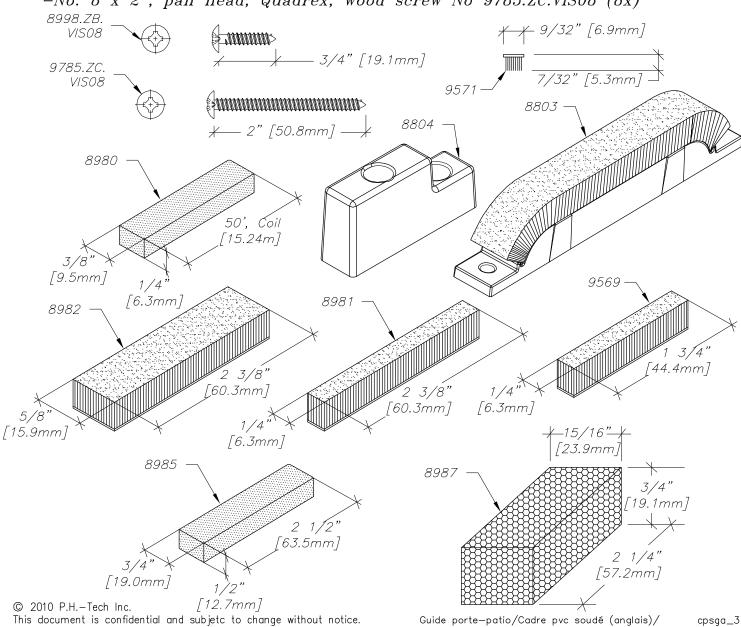
2011/04/28

3

# 1.2.2 Required Hardware for the Frame

#### *Hardware List*

- -Molded fixed panel anchor block No. 7003.BLM66 (2x)
- -Head weatherseal No. 8803 (1x)
- -Sash stopper No. 8804 (1x)
- -Sill dust plug No. 8982 (1x)
- -Foam tape No. 8980 (50', coil)
- -Interlock dust plug No. 8981 (2x)
- -Sill dust plug No. 8982 (1x)
- -Sill foam block No. 8985 (1x)
- -Insect stop foam No. 8987 (1x)
- -Insect stop No. 9569 (1x)
- -Weatherstrip No. 9571 (Schlegel No. PB-8420-270) (Coil)
- -No. 8 x 3/4 ", truss head, Quadrex, screw No 8998.ZB.VIS08 (4x)
- -No. 8 x 2", pan head, Quadrex, wood screw No 9785.ZC.VIS08 (8x)





### 1.2 Catalog of Parts

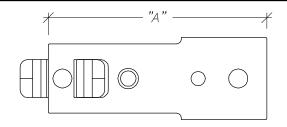
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# 1.2.2 Required Hardware for the Frame (Continued)

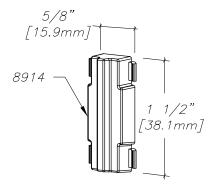
### Metal Anchor (option)

No. 9832: A= 7 3/4" [197mm] No. 9858: A= 2 7/8" [74mm]

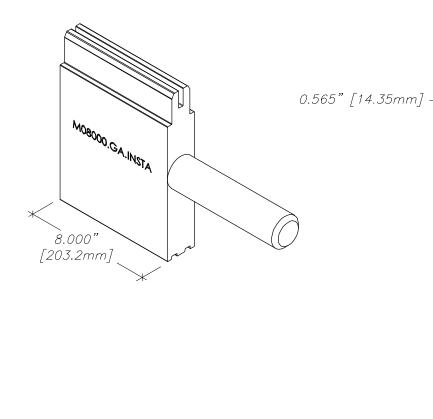
No. 9859:  $A = 4 \frac{3}{4}$  [120mm]

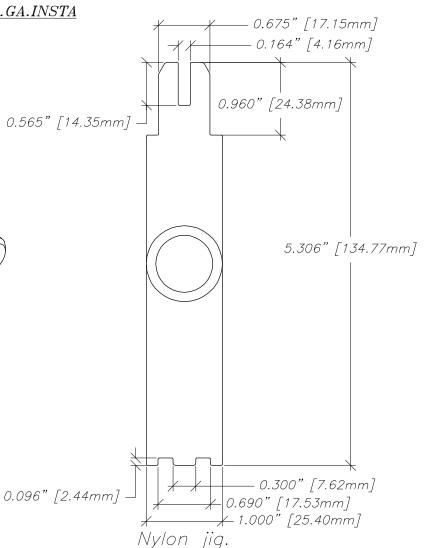


#### Screen Shim Keeper (option) No. 8914



#### Installation JIG No. M08000.GA.INSTA





#### All P.V.C. Welded Patio Door Frame

1.2 Catalog of Parts

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# 1.2.3 Sealant and Staple

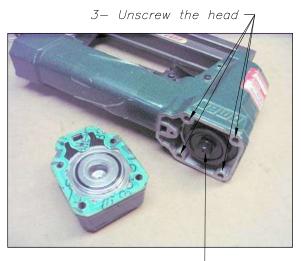
#### Sealant and Staple

	Description	Part No.	Manufacturer
1	Sealant PVC compatible	Variable	Variable
*2	Staple, 1/4", galvanized	4097	OMER

<sup>\* &</sup>lt;u>Note</u>: Your stapler 4097 must be modified to use with the aluminum and PVC materials.

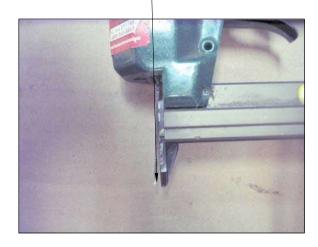
The modification is: Cut the driver equal to the nose of the stapler, when the driver is at the end of travel.

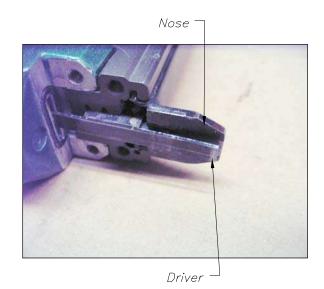




4- Push the piston

5— Close the store, trace and cut the driver equal to the





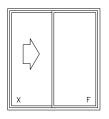


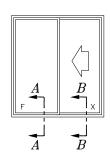
REVISION: 2012/02/02

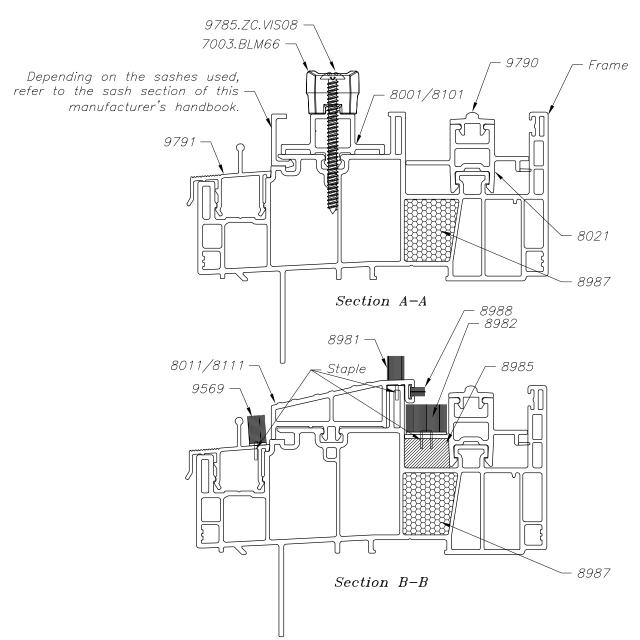
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# 1.3.1 Sill Assembly Section

#### Two (2) Panel Patio Door





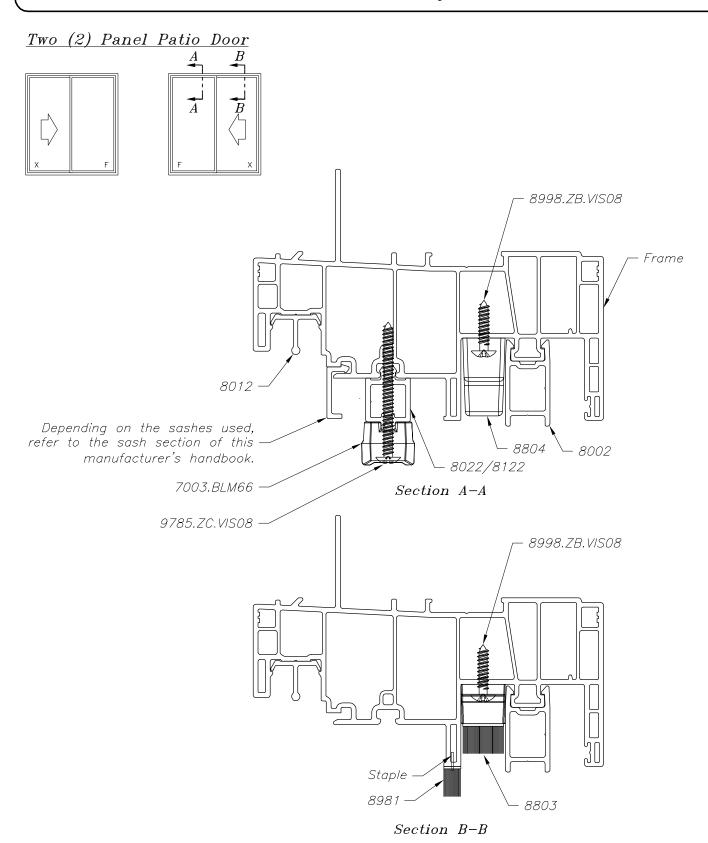




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# 1.3.2 Head Assembly Section

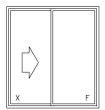


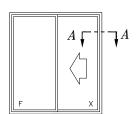


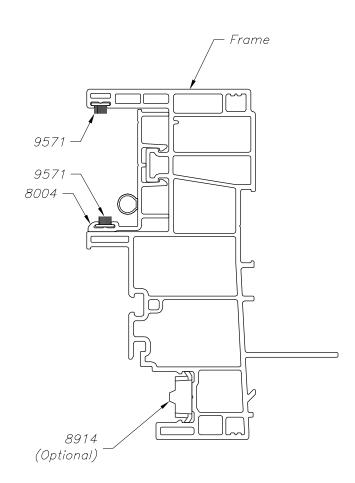
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# 1.3.3 Jamb Assembly Section, Operating Panel Side

Two (2) Panel Patio Door







Section A-A



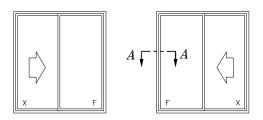
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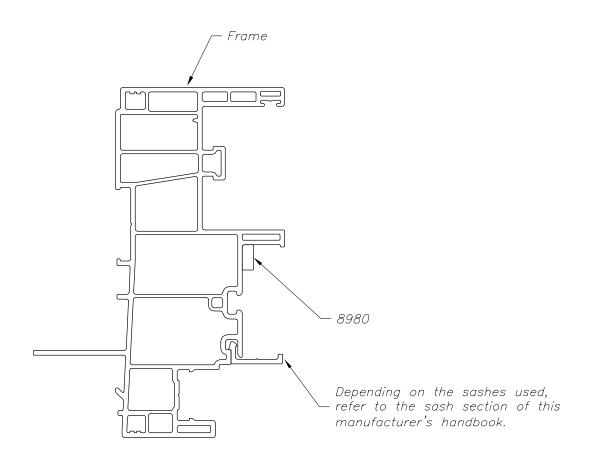
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# 1.3.4 Jamb Assembly Section, Fixed Panel Side

#### Two (2) Panel Patio Door





Section A-A



All P.V.C. Welded Patio Door Frame

2.1 Manufacturing

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2.1.1 Introduction to Manufacturing Instructions

This section describes procedures, step by step, for all P.V.C. welded patio door frame manufacturing. All fabrication procedures that are different from those mentioned in this document may alter performances and/or the quality of finished product.

#### *Note:*

Depending on the sash used, refer to the sash section of this manufacturer's handbook for the manufacturing instructions.

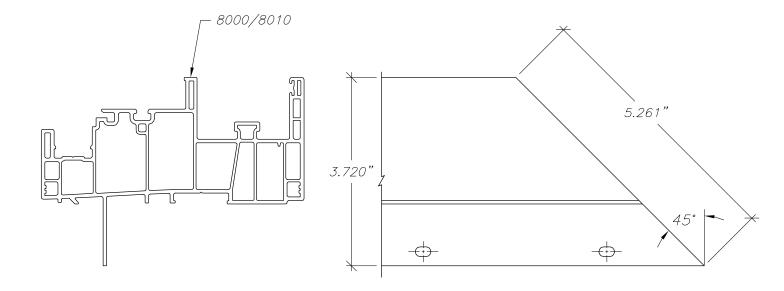


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# 2.1.2 45° Miter Cut of the Frame

- Refer to the Cutting Size section of this manual. (Section 2.4.1 and 2.4.2)
- Adjust the saw to the required cutting dimension.
- Use special jigs to maintain profiles in proper position. Consult P.H. Tech Technical Department if required.
- Firmly hold profiles when cutting.
- Cut two (2) jambs (left and right) and two (2) horizontal (top and bottom) frame profiles to the required dimensions.





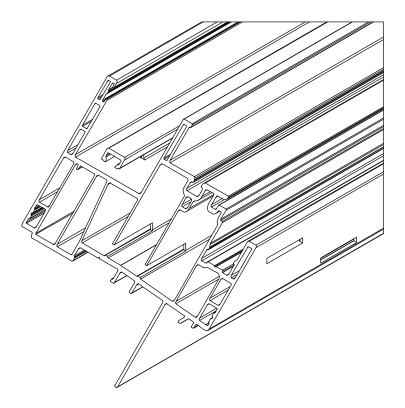
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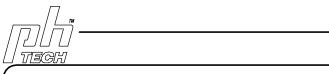
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# 2.1.3 Frame Drainage

- Only the lower profile (sill) of the frame must be machined.
- Machine drain holes on the frame as per drawing specifications on the two (2) next pages.

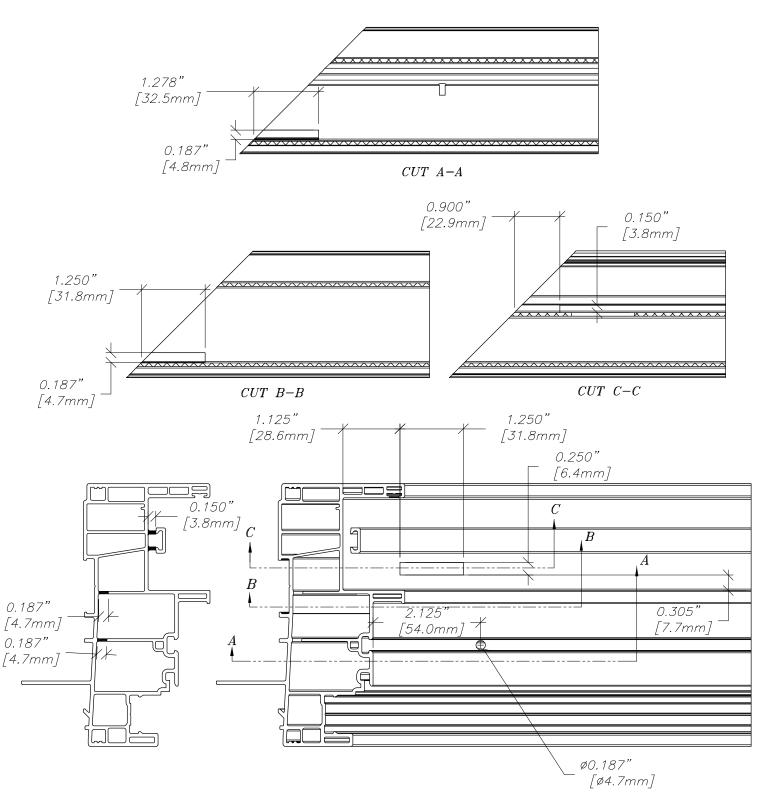




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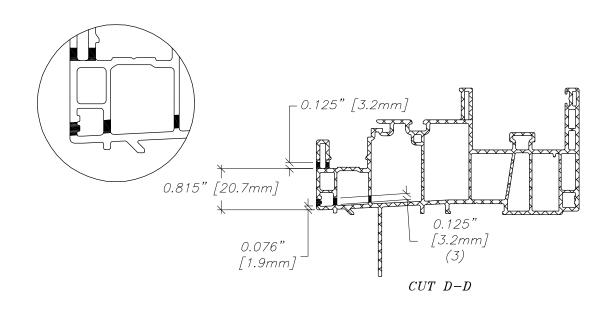
# 2.1.3 Frame Drainage (Continued)

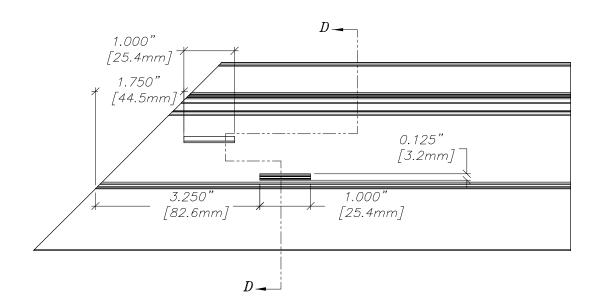




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# 2.1.3 Frame Drainage (Continued)





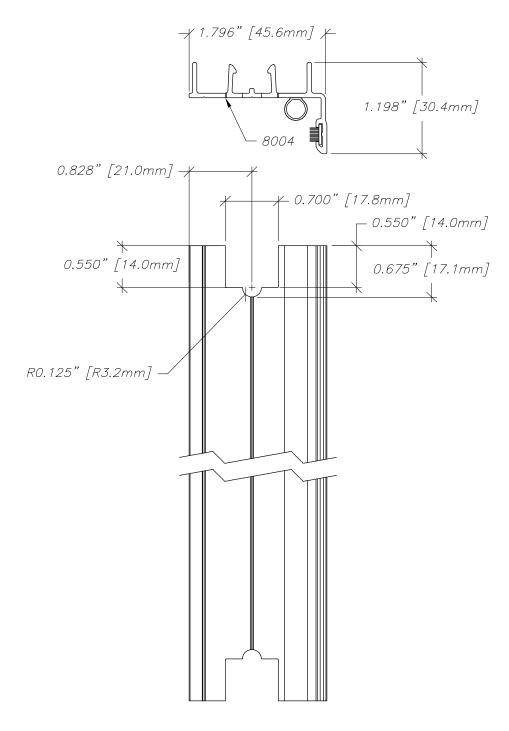


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# 2.1.4 Jamb Track Cut-out

- Cut-out the jamb track as per drawing specifications.



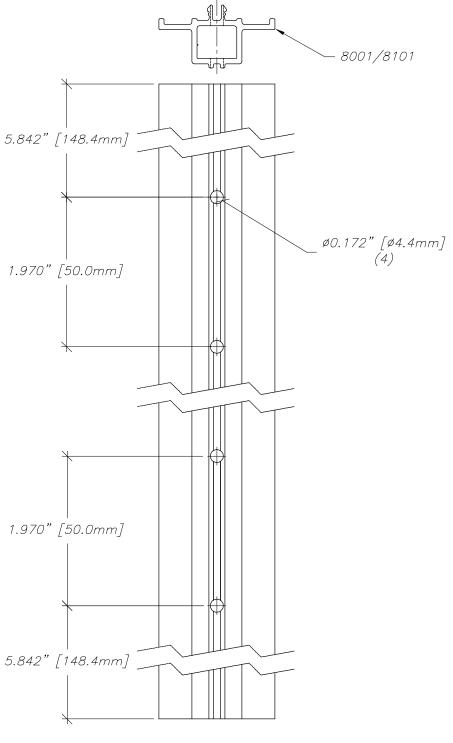


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# 2.1.5 Bottom Fixed Support Panel Cut-out

- Cut-out bottom fixed panel support as per drawing specifications.



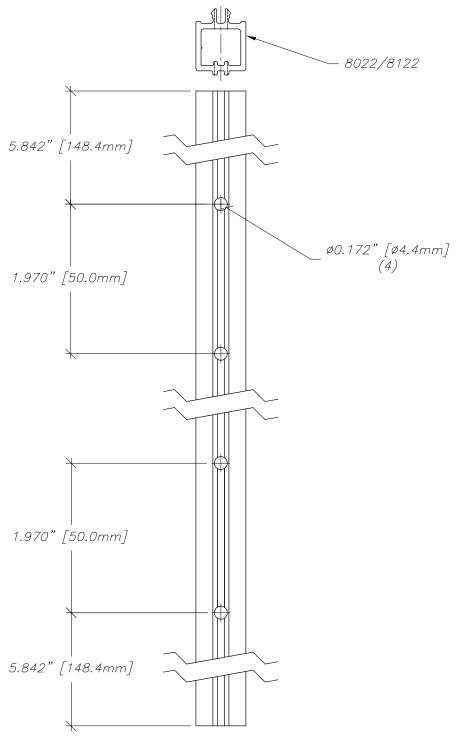


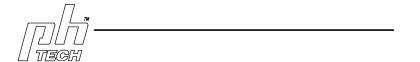
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# 2.1.6 Top Fixed Support Panel Cut-out

- Cut-out the top fixed panel support as per drawing specifications.





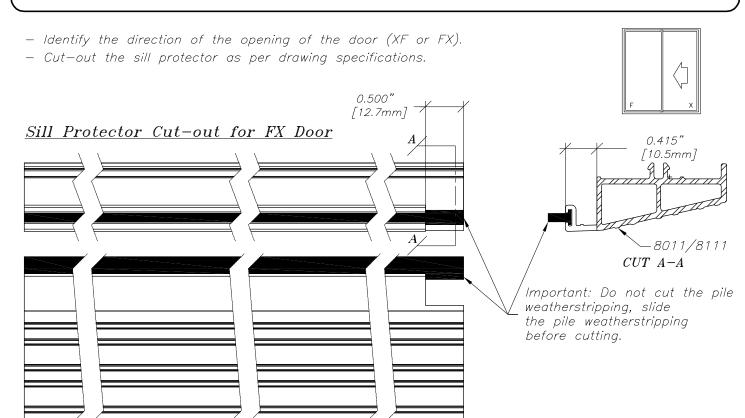
All P.V.C. Welded Patio Door Frame

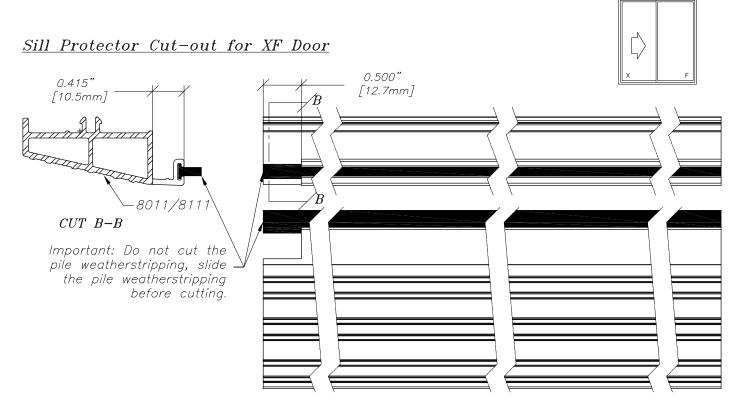
2.1 Manufacturing

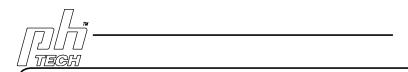
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### 2.1.7 Sill Protector Cut-out







All P.V.C. Welded Patio Door Frame

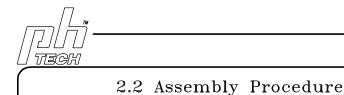
2.2 Assembly Procedure

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# 2.2.1 Introduction to Assembly Procedure

This section describes procedures, step by step, for all P.V.C. welded patio door frame manufacturing. All assembly procedures that are different from those mentioned in this document may alter performances and/or the quality of finished product.



#### All PVC Welded Patio Door Frame

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# 2.2.2 Welding of Profiles

- High-precision jigs are necessary and we recommend using a two (2) or four (4) point welder.
- Weld all four (4) corners of the frame or sash with the inner side on the welding table.
- Remove the welded frame or sash and put it aside for curing prior to the cleaning operation.

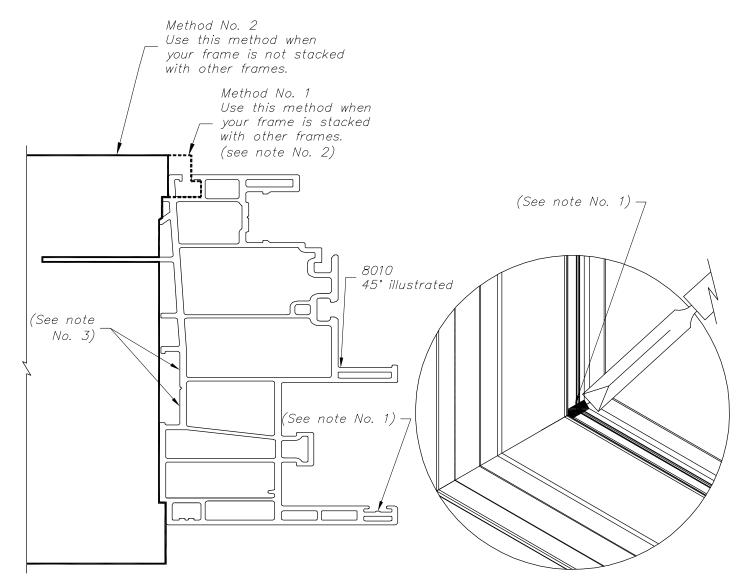
WELDING SETTINGS
TEMPERATURE :
WELDING TIME:
COOLING TIME:
PRESSURE FRONT:
PRESSURE REAR:
$\underline{Note}$ : The clamping pressure should not disturb or allow any slippage.



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# 2.2.3 Corner Cleaning of the Frame Profiles

- After the frame has been welded, insert it into the automatic corner cleaner equipped with a custom cutter and draw knives to remove the exterior weld burrs caused by fusion of PVC. Clean all four (4) corners.
- Internal weld burrs can be removed manually by using a hand chisel or a knife. They can also be removed with an automatic corner cleaning machine.



- $\underline{Note}$   $\underline{No}$ : Clean the pile weatherstripping cavity corner at both ends manually (operating panel side only).
- $\underline{Note} \ No. \ 2$ : This method offers more space under the accessories for the sealant application therefore creating a more adequate joint between the two frames.
- $Note\ No.\ 3$ : If necessary, manually clean with care, if need be only (Never clean bottom frame at this area).



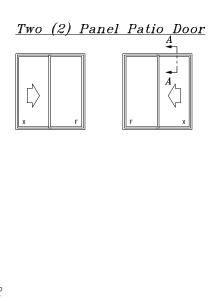
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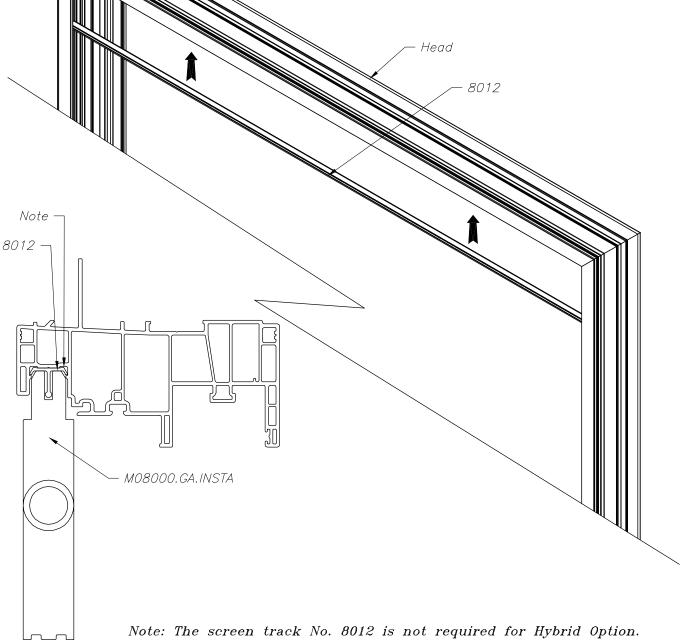
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# 2.2.4 Head Screen Track Installation

#### Assembly Sequence

- Using a jig M08000.GA.INSTA and a rubber mallet, insert No. 8012 screen track in the head.





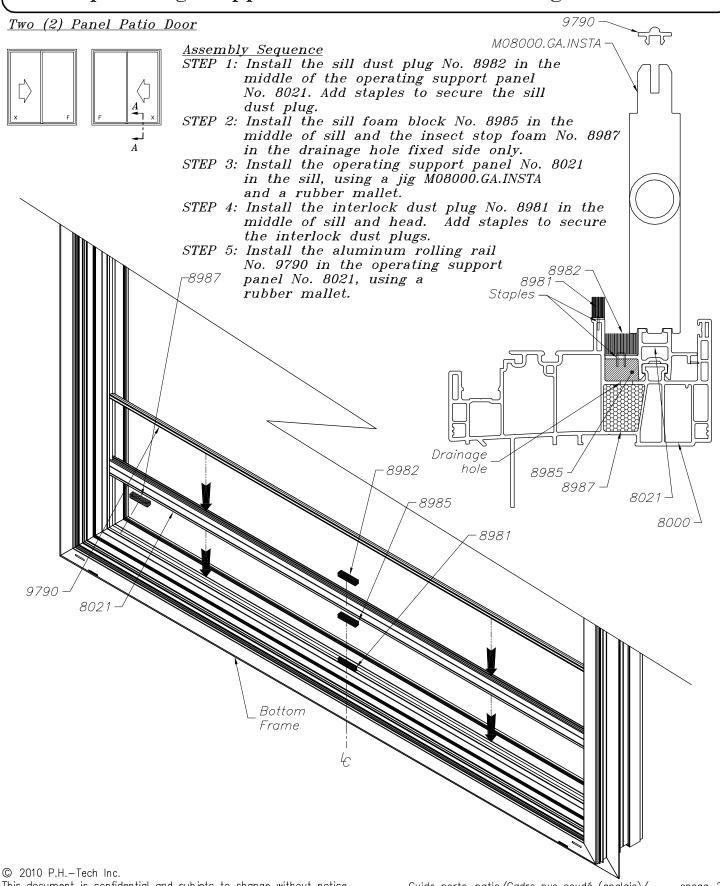
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# 2.2.5 Operating Support Panel and Dust Plugs Installation

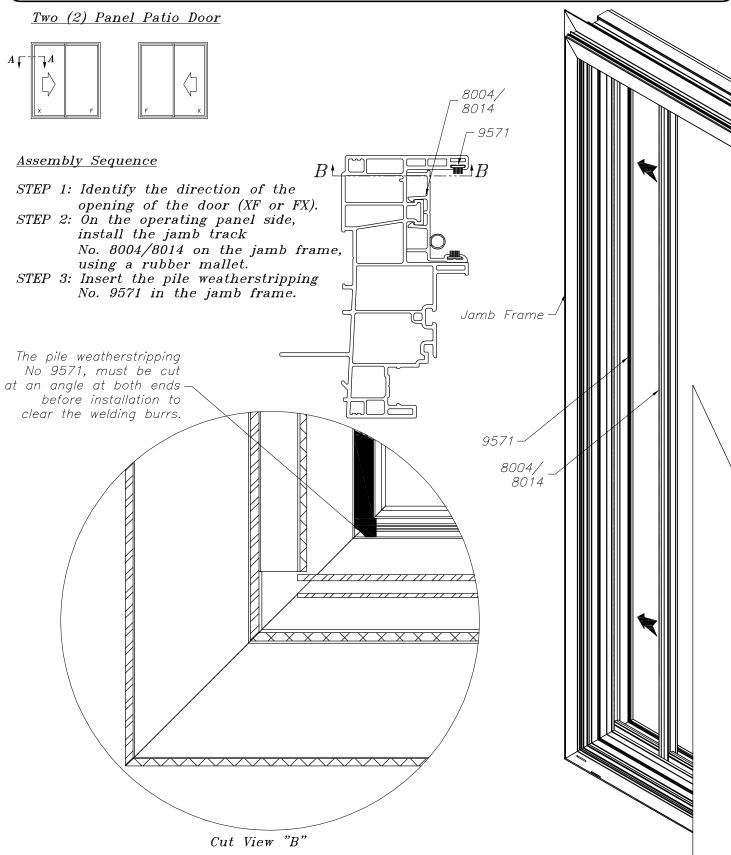




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# 2.2.6 Jamb Track Installation



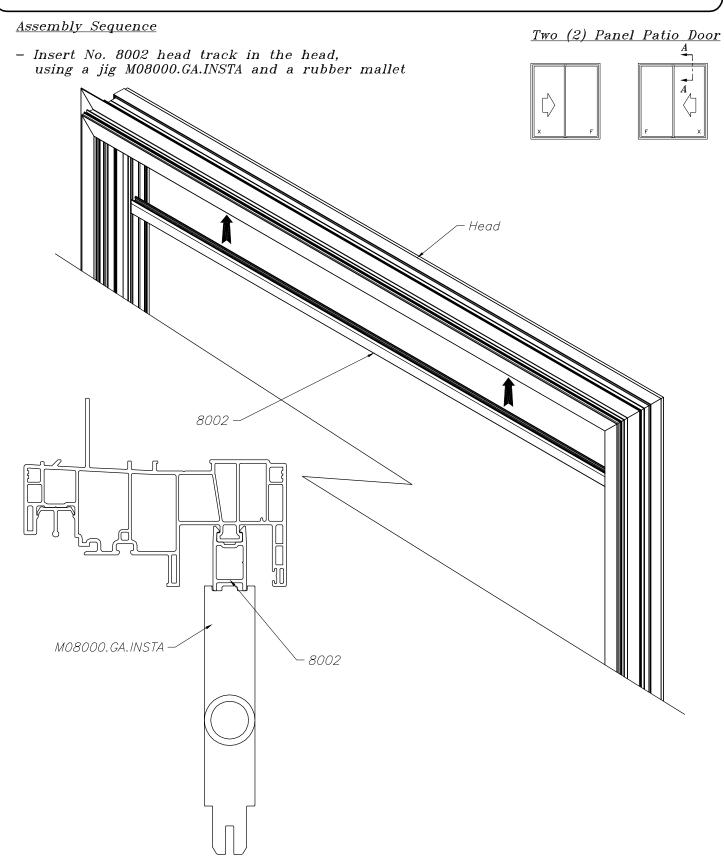


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# 2.2.7 Head Track Installation



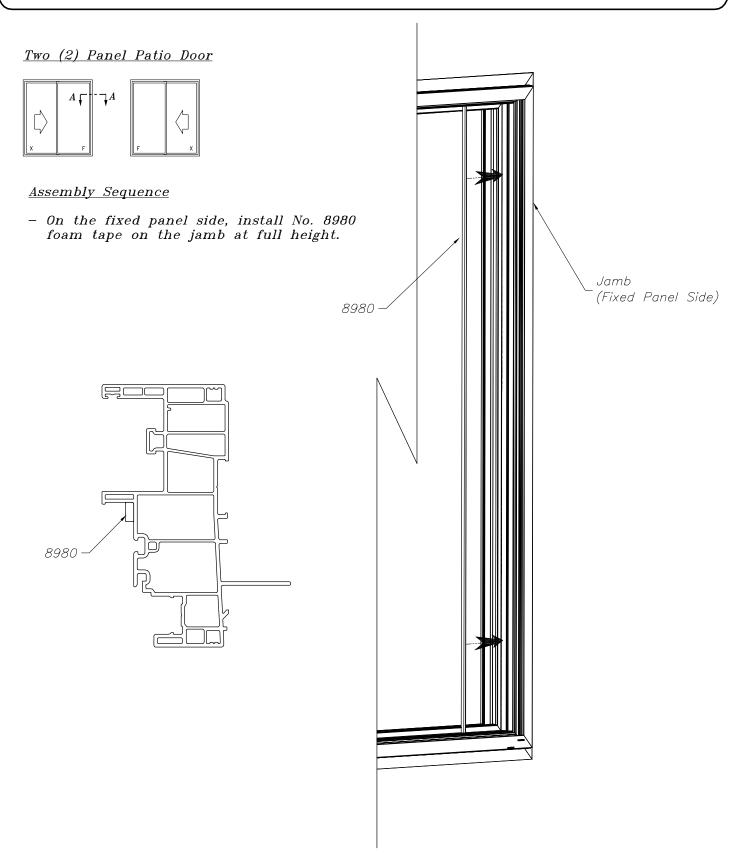


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# 2.2.8 Foam Tape Installation



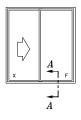


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# 2.2.9 Bottom Fixed Support Panel Installation

#### Two (2) Panel Patio Door

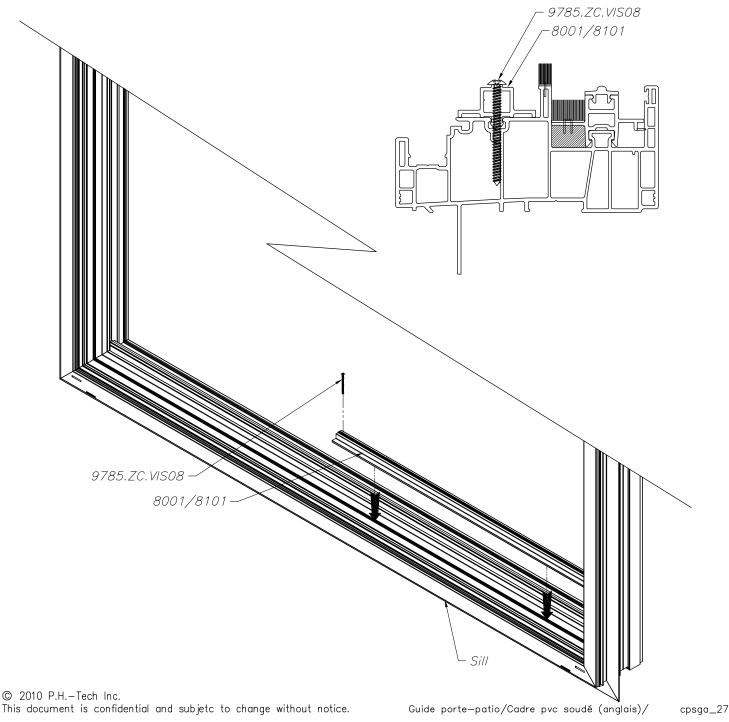




#### Assembly Sequence

STEP 1: On the fixed panel side, install No. 8001 bottom fixed panel support, using a rubber mallet.

STEP 2: Add 1 (one) screw No. 9785.ZC.VIS08 to fasten the bottom fixed support panel No. 8001 to 3/4" [19mm] of the end.



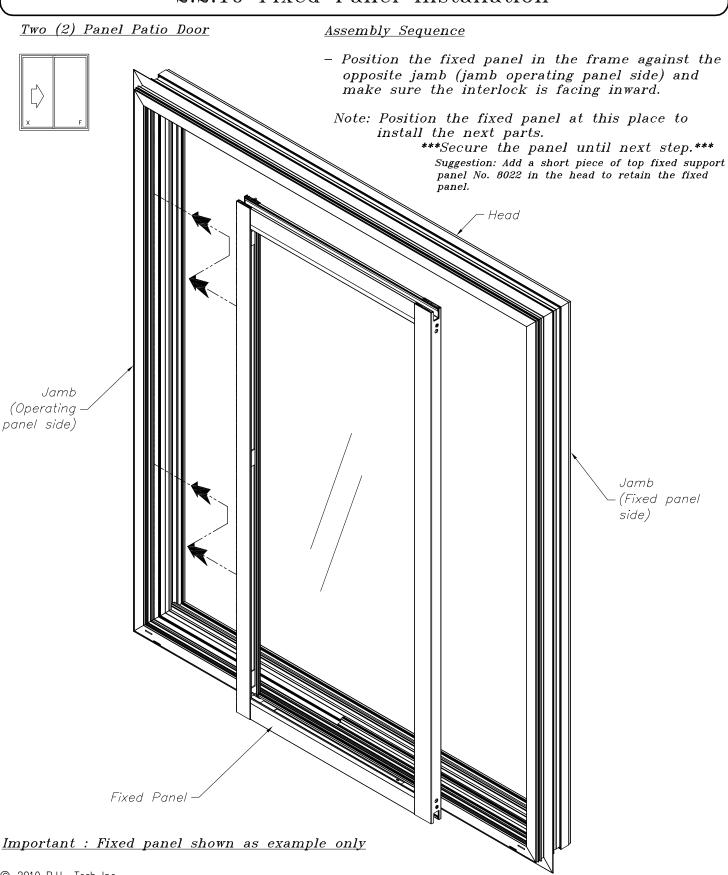


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### 2.2.10 Fixed Panel Installation

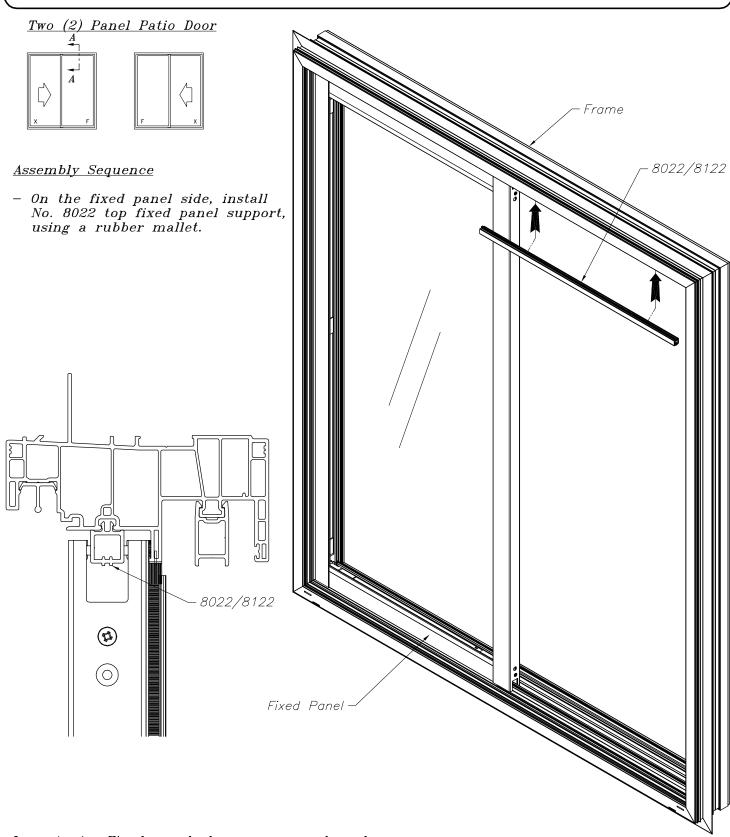




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# 2.2.11 Top Fixed Support Panel Installation



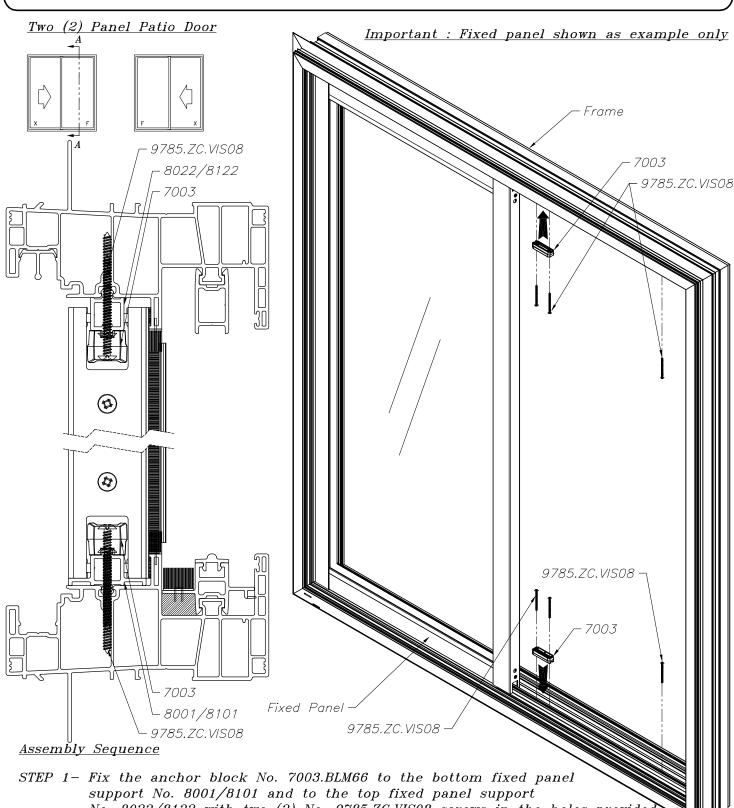
Important : Fixed panel shown as example only



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### 2.2.12 Molded Fixed Panel Anchor Block Installation



No. 8022/8122 with two (2) No. 9785.ZC.VIS08 screws in the holes provided

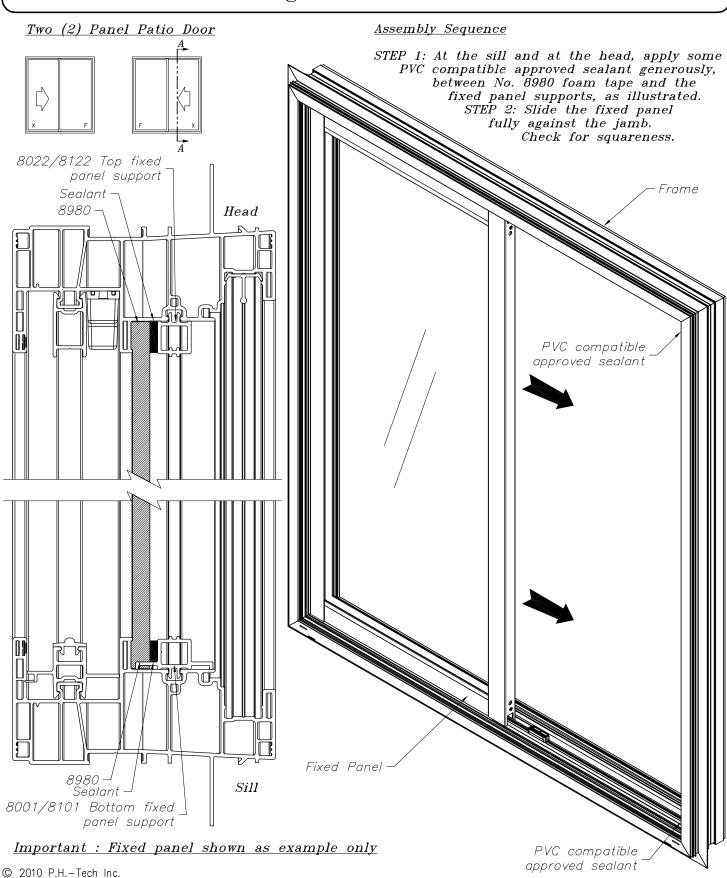
STEP 2- Add one (1) No. 9785.ZC.VIS08 screw in the holes not used at the bottom fixed panel support No. 8001/8101 and top fixed panel support No. 8022, near of jamb.

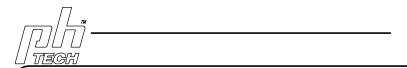


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# 2.2.13 Sealing Jamb, Fixed Panel Side





All P.V.C. Welded Patio Door Frame

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2.2 Assembly Procedure

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2.2.14 Fixed Panel, Final Installation

#### *Note:*

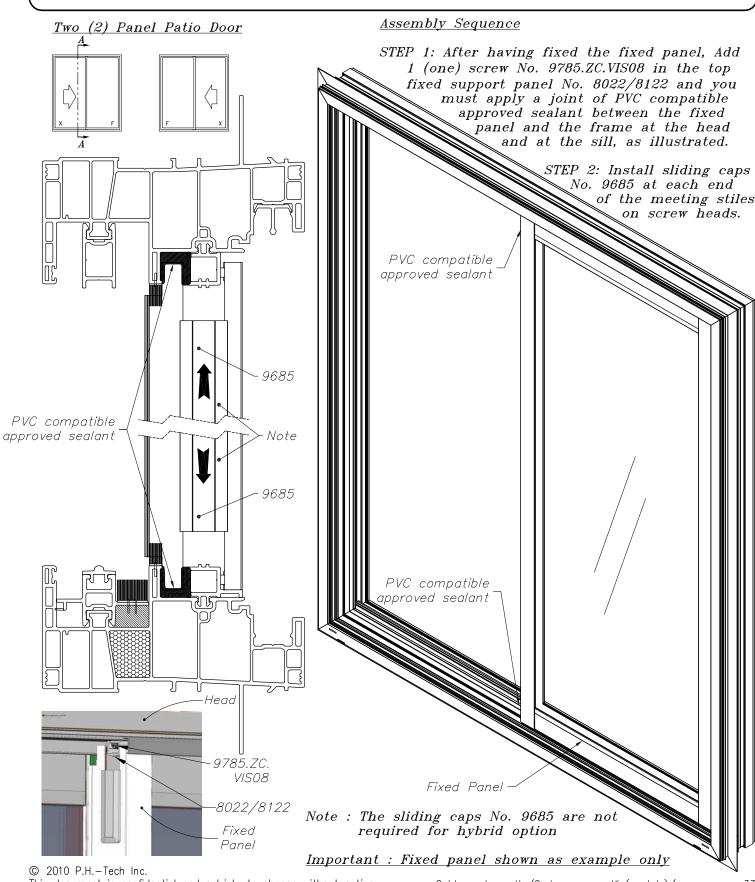
Depending on the sash used, refer to the sash section of this manufacturer's handbook for this step.



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# 2.2.15 Sealing Fixed Panel

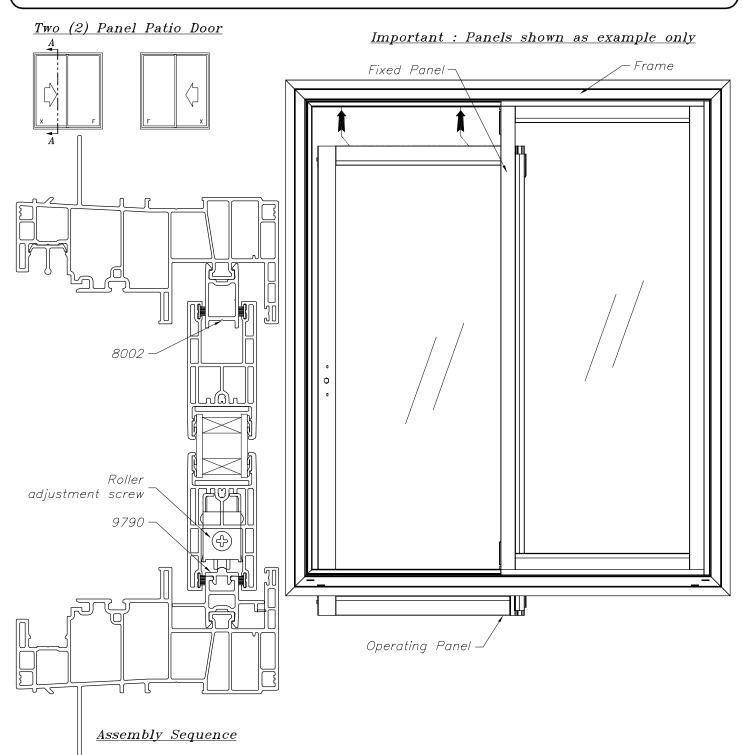




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# 2.2.16 Operating Panel Installation



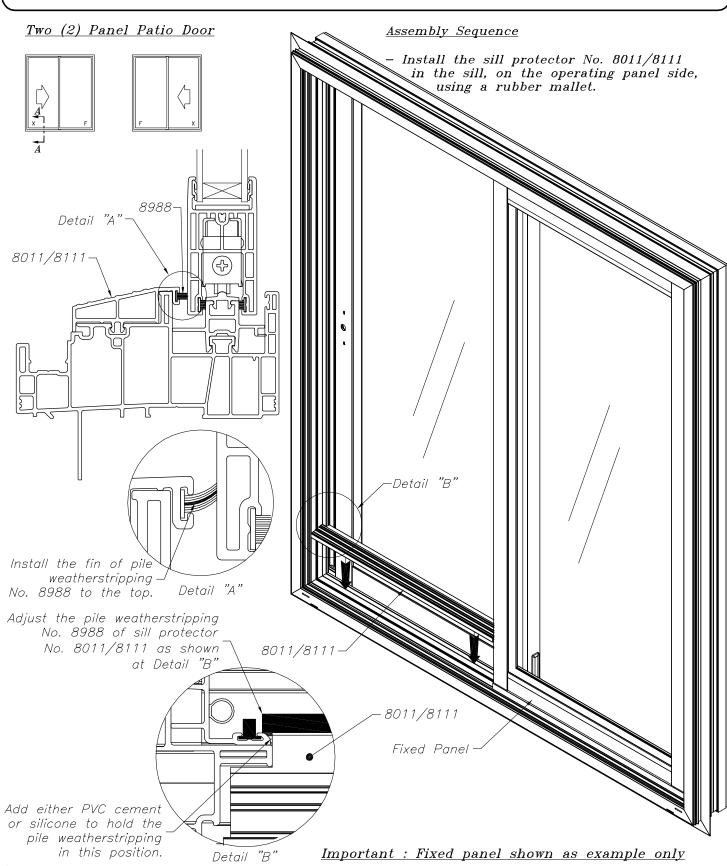
- STEP 1: From the inside, insert the top of the operating panel into the head track No. 8002 making sure the interlock is facing outward.
- STEP 2: Set operating panel onto the rolling rail No. 9790.
- STEP 3: If necessary, adjust height and squareness of the operating panel with adjustment screws (Clockwise to raise /Counter-clockwise to lower).



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# 2.2.17 Sill Protector Installation

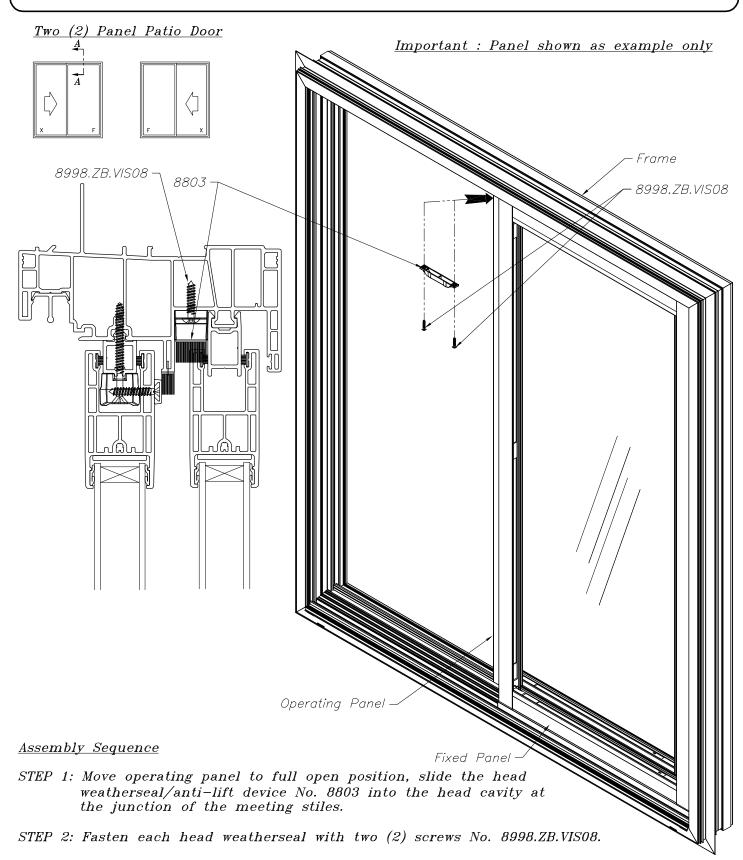




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### 2.2.19 Head Weatherseal Installation

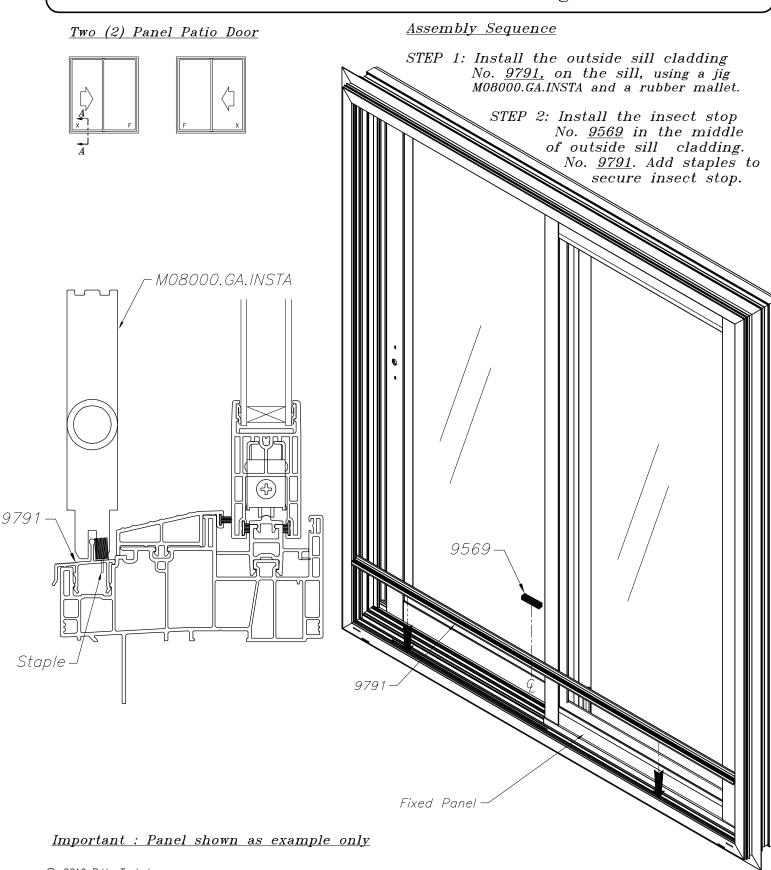




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# 2.2.18 Aluminum Outside Sill Cladding Installation



This document is confidential and subjetc to change without notice.

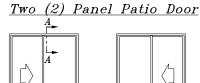


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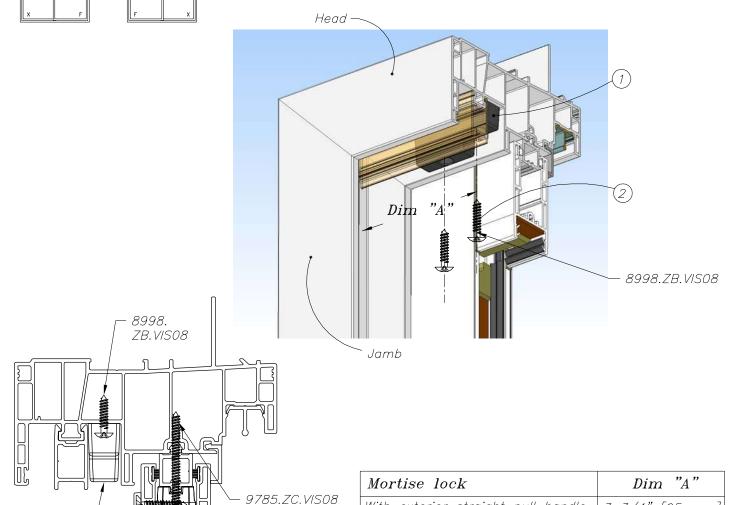
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# 2.2.20 Sash Stopper Installation



Important: Panel shown as example only

Note: Depending on the sashes used, refer to the sash section of the technical manual for installation details regarding the handle.



#### Assembly Sequence

8804

- STEP 1: Locate sash stopper depending on the type of handle chosen. (See table above)
- STEP 2: On the fixed panel side, place the sash stopper at the indicated place. (See drawings above).
- STEP 3: Fasten the sash stopper with (2) screws No. 8998.ZB.VIS08.

With exterior straight pull handle

With exterior brass, black nickel

and brushed chrome handle.

With exterior "C" handle

(white or black)

3 3/4" [95 mm]

5 1/4" [133 mm

4 7/8" [124 mm]



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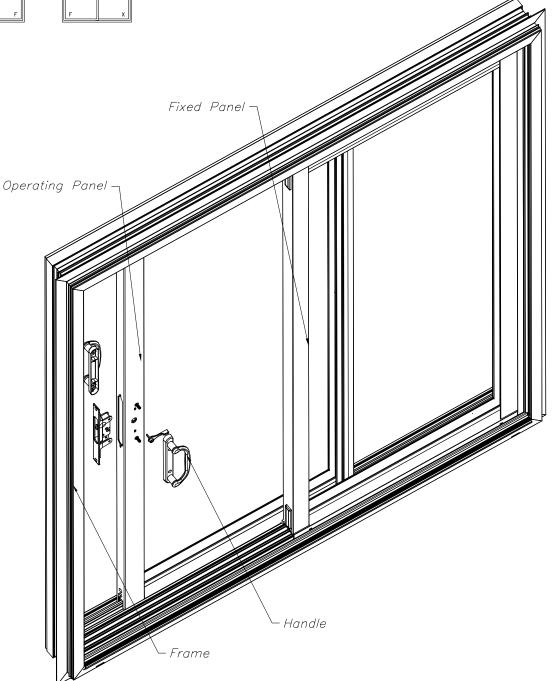
# 2.2.21 Handle and Mortise Lock Installation

#### Two (2) Panel Patio Door





Note: Depending on the sashes used, refer to the sash section of the technical manual for installation details regarding the handle and mortise lock.



Important: Panel shown as example only