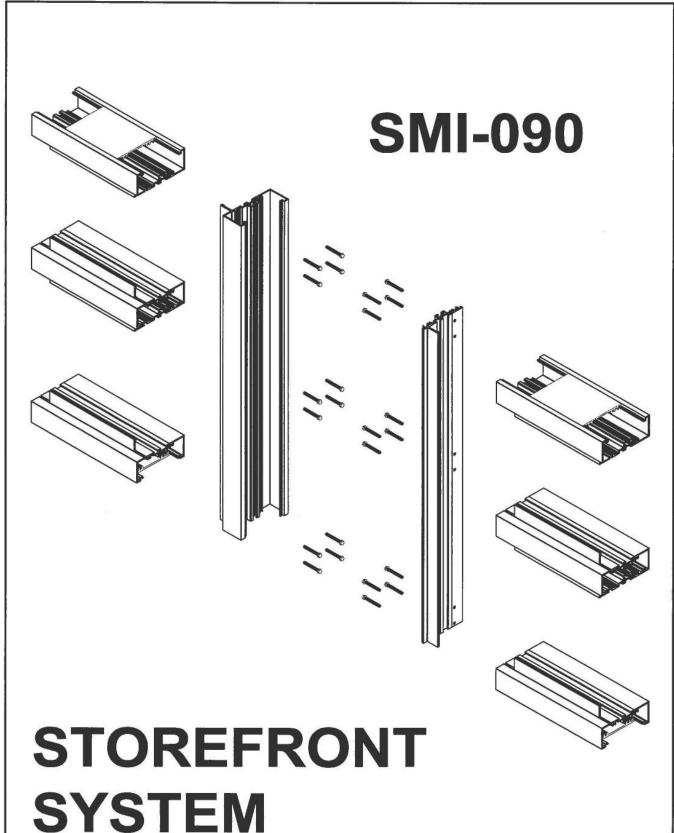
NSTALLATION INSTRUCTIONS





NSTALLATION INSTRUCTIONS

CONTENTS

PAGE

GENERAL INSTALLATION NOTES	3	
PARTS IDENTIFICATION	4 -	5
TYPICAL WINDOW DETAILS	6 -	11
TYPICAL SIDELITE DETAILS	12	
FABRICATION: ASSEMBLY SCREW	13	
FABRICATION: SPECIAL NOTCHES	14	
SYSTEM ASSEMBLY (TYPICAL)	15	- 16
INSTALLATION	17	- 19
GLAZING: 9/16" THK. LAM. GLASS	20	
GLAZING: 1 5/16" THK. LAM./ INSUL.GL.	21	
GLAZING: 1 5/16" THK. LAM./INSUL. GL. THERMAL BARRIER	22	
GLAZING: 1/4" THK. TMP. GLASS	23	
GLAZING: 1" THK. INSUL. GL.	24	
GLAZING: 1" THK. INSUL. GL. THERMAL BARRIER	25	
STEEL & ALUMINUM REINFORCEMENT	26	



-ALLATION INSTRUCTIONS

GENERAL INSTALLATION NOTES

- Safety- Safety should be the primary concern throughout the installation process. Keep the installation areas
 clear of debris and obstructions. Lift and carry products carefully using proper lifting procedures. Always wear
 safety gear as determinated by products and or jobsite conditions.
- Building Code- The Building Code determines the requirements of products to be used on a project. Aldora
 manufactures products to the installer's specifications; however, Aldora does not assume any responsibility for
 the suitability of its products for any project. Its is the responsibility of the glazier to ensure each product meets
 the project requirements.
- Openings- Measure the openings to determinate if they match the building plans. Notify the General Contractor immediately to correct any deviance.
- Shop drawings- Review shop drawings to ensure all materials have been manufactured in accordance with the shop drawings.
- Receiving- Inspect all products upon receipt. Do not install any damage or deficient products. Return to Aldora immediately for correction.
- Protection- Protect all materials from damage including cement, stucco, paint, mud or other abrasives or chemicals. Materials need to be protected properly before, during and after installation.
- Fields testing- Glaziers must fully understand all sealing procedures in advance of installation. If installed
 correctly and properly sealed, Aldora's products will achieve satisfactory results during field test. Aldora will not
 accept any responsibility for installation deficiencies.

Pre-installation

- 1. Checklist- Working from a checklist, bring all necessary documents, tools, equipment and supplies to the jobsite.
- Products- Review all products versus the shop drawings to ensure everything is at the jobsite. Examine mark numbers to verify proper products per opening.
- Pre-glazed units- With multiple panel openings, identify the panel with two jambs for the opening, this is typically the starting panel for the left hand side of the opening (outside looking in).
- 4. Sealants- Ensure compatibility of the sealant with all products involved.
- 5. Anchors- Verify anchors supplied match shop drawings.
- 6. Opening preparation- Clean opening of all debris and examine for level and plumb.
- Aluminum surfaces in contact with lime-mortar, concrete or other masonry materials, shall be protected with alkali resistant-coating.

Note: Perimeter sealing of the product to the substrate is not covered under this document. Please refer to the product's notice of acceptance or Florida building code approval for specifics.

All perimeter caulking and waterproofing should comply with the above mentioned documents and sealant compatibility and performance should be designed for specific job conditions.

Failure to have an adequate barrier will lead to water intrusion.



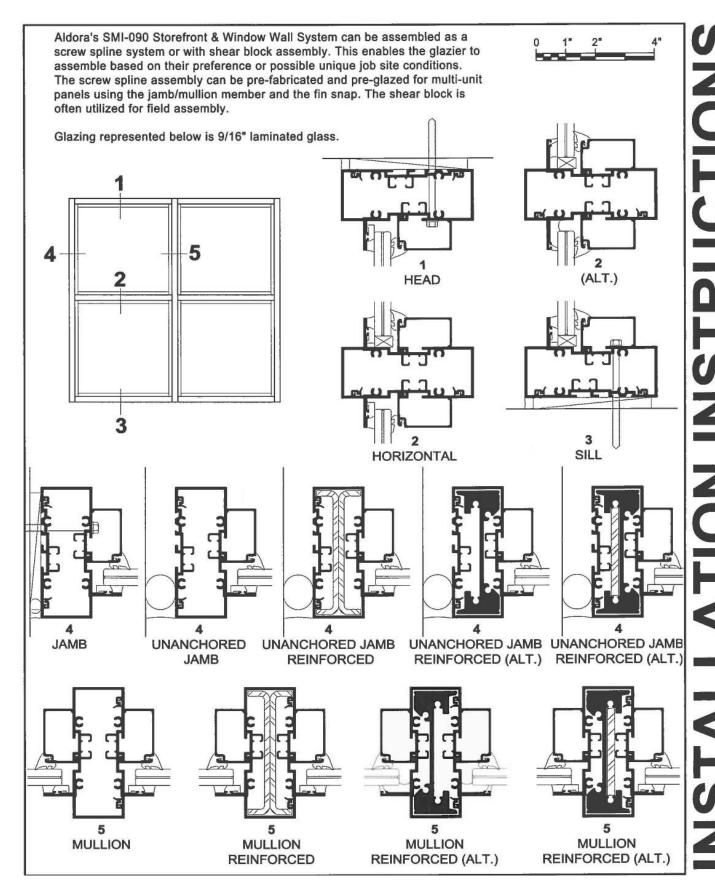
		Ť	1			1
PROFILE	PART#	DESCRIPTION	PROFILE	PART#	DESCRIPTION	
[megn]	SMI-091	HEAD/SILL/JAMB/MULLION & INTERM. HORIZONTAL	رمريمه	SMI-903T	FIN SNAP (POURED & DEBRIDGE)	ONS
[SMI-092	GLASS STOP	रक कर	SMI-004	PLAIN SNAP	
, , , , , , , , , , , , , , , , , , ,	SMI-093	FIN SNAP				UCTI
7 01 2 30 1 1	SMI-094	PLAIN SNAP				5
F 4	SMI-095	ALUM. REINFORCEMENT & SHEAR BLOCK				T Y
٢	SMI-097	OUTER GLASS STOP		ST-090a	VERTICAL STEEL REINFORCEMENT	S
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	SMI-098	OUTSIDE GLAZED HEAD, INTERM., JAMB & SILL		ST-090c	VERTICAL STEEL REINFORCEMENT	Z
	SMI-099	CORNER POST				Z
	SMI-091T	HEAD/SILL/JAMB/MULLION & INTERM. HORIZONTAL (POURED & DEBRIDGE)				2
40-200	SMI-093T	FIN SNAP (POURED & DEBRIDGE)				4
₹ <del>012.7</del> 07	SMI-094T	PLAIN SNAP (POURED & DEBRIDGE)				
[]	SMI-901	HEAD/SILL/JAMB/MULLION & INTERM. HORIZONTAL				NSTAL
<del></del>	SMI-903	FIN SNAP				ST
	SMI-901T	HEAD/SILL/JAMB/MULLION & INTERM. HORIZONTAL (POURED & DEBRIDGE)		7,000		Z



	5
г	Ż
	0
D.	CT
	TR
	S
	<b>4</b>
	Z
	$\Xi$
	A
	Z
	S
	Z

PROFILE	PART#	DESCRIPTION	PROFILE	DADT#	DESCRIPTION
FROFILE	FARI#	DESCRIPTION	PROFILE	PART#	DESCRIPTION
1	SMI-G01	INTERIOR GLAZING GASKET	-		ASSEMBLY SCREW #12 X 1 1/2" LG. HX. WASHER SMS. ST/ST
<b>4</b>	SMI-G07	SPACER/ OUTER GASKET	-	Ot.	ASSEMBLY SCREW #12 X 1 1/2" LG. FT. HD. SMS. ST/ST
T	SMI-G08	INTERIOR GLAZING GASKET			MULLION SCREW 1/4-20 X 2 1/4" LG. FT. HD. MACHINE BOLT ST/ST
A	SMI-G13	SPACER/ RETAINER OUTER GASKET			NUTS 1/4-20 HEX. ST/ST
	SMI-SB04	SETTING BLOCK 3/8" X 1 1/4" X 4" LG.			
	SMI-SB06	SETTING BLOCK 3/8" X 5/8" X 4" LG.			
7	SMI-P03	TEMPORARY GLASS STOP			
7	SMI-P08	TEMPORARY GLASS STOP			
				92	





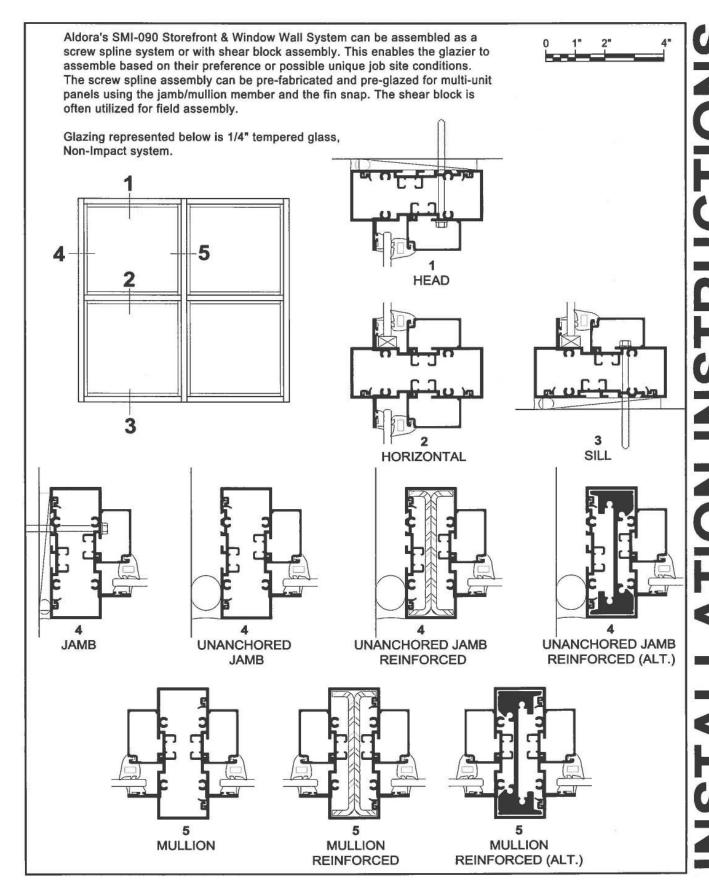


## ON INSTRUCTIONS Aldora's SMI-090 Storefront & Window Wall System can be assembled as a screw spline system or with shear block assembly. This enables the glazier to assemble based on their preference or possible unique job site conditions. The screw spline assembly can be pre-fabricated and pre-glazed for multi-unit panels using the jamb/mullion member and the fin snap. The shear block is often utilized for field assembly. Glazing represented below is 1 5/16" laminated-insulated glass. 2 1 (ALT.) **HEAD** 3 2 3 SILL **HORIZONTAL UNANCHORED JAMB JAMB** UNANCHORED UNANCHORED JAMB UNANCHORED JAMB REINFORCED (ALT.) REINFORCED (ALT.) **JAMB** REINFORCED 5 5 5 5 MULLION MULLION MULLION MULLION REINFORCED (ALT.) REINFORCED REINFORCED (ALT.)



## Aldora's SMI-090 Storefront & Window Wall System can be assembled as a screw spline system or with shear block assembly. This enables the glazier to assemble based on their preference or possible unique job site conditions. The screw spline assembly can be pre-fabricated and pre-glazed for multi-unit panels using the jamb/mullion member and the fin snap. The shear block is often utilized for field assembly. Glazing represented below is 1 5/16" laminated-insulated glass in the thermally broken variation of the SMI-090. (ALT.) HEAD 3 2 3 SILL HORIZONTAL UNANCHORED JAMB UNANCHORED JAME **JAMB UNANCHORED UNANCHORED JAMB** REINFORCED (ALT.) REINFORCED (ALT.) **JAMB** REINFORCED 5 5 5 5 MULLION MULLION MULLION MULLION REINFORCED (ALT.) REINFORCED (ALT.) REINFORCED







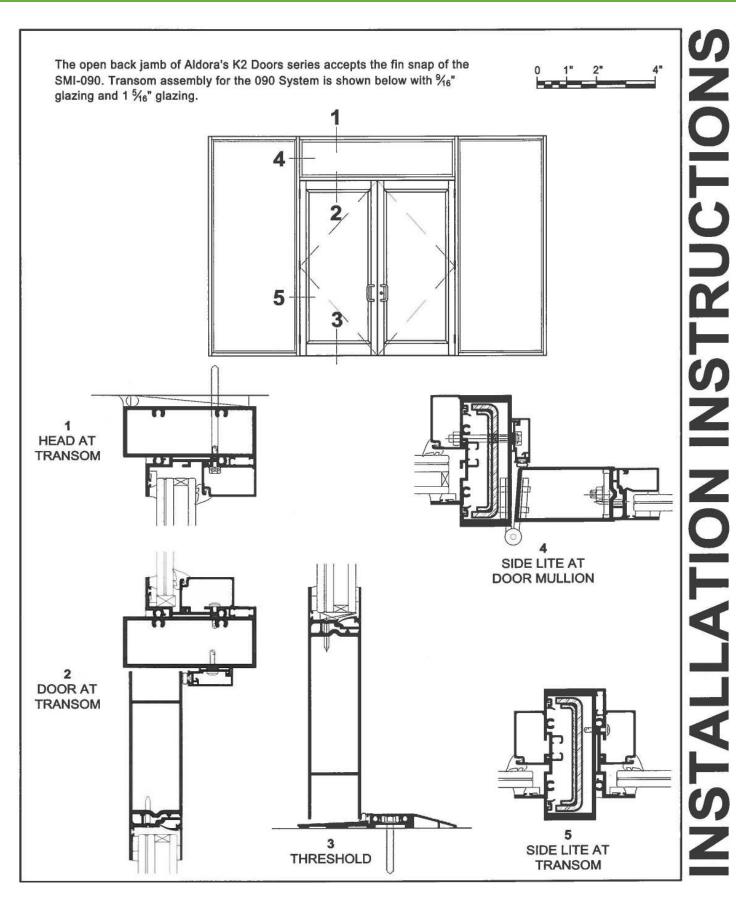
## Aldora's SMI-090 Storefront & Window Wall System can be assembled as a screw spline system or with shear block assembly. This enables the glazier to assemble based on their preference or possible unique job site conditions. The screw spline assembly can be pre-fabricated and pre-glazed for multi-unit panels using the jamb/mullion member and the fin snap. The shear block is often utilized for field assembly. Glazing represented below is 1" I.G. tempered glass, Non-Impact system. 1 **HEAD** 3 SILL HORIZONTAL UNANCHORED JAMB **JAMB** UNANCHORED UNANCHORED JAMB REINFORCED (ALT.) **JAMB** REINFORCED 5 5 5 MULLION MULLION MULLION REINFORCED (ALT.) REINFORCED



ON INSTRUCTIONS

## Aldora's SMI-090 Storefront & Window Wall System can be assembled as a screw spline system or with shear block assembly. This enables the glazier to assemble based on their preference or possible unique job site conditions. The screw spline assembly can be pre-fabricated and pre-glazed for multi-unit panels using the jamb/mullion member and the fin snap. The shear block is often utilized for field assembly. Glazing represented below is 1" I.G. tempered glass, Non-Impact system in a thermally broken variation of the SMI-090. HEAD 3 3 HORIZONTAL SILL **JAMB UNANCHORED UNANCHORED JAMB UNANCHORED JAMB** REINFORCED (ALT.) **JAMB** REINFORCED 5 5 5 MULLION MULLION MULLION REINFORCED (ALT.) REINFORCED



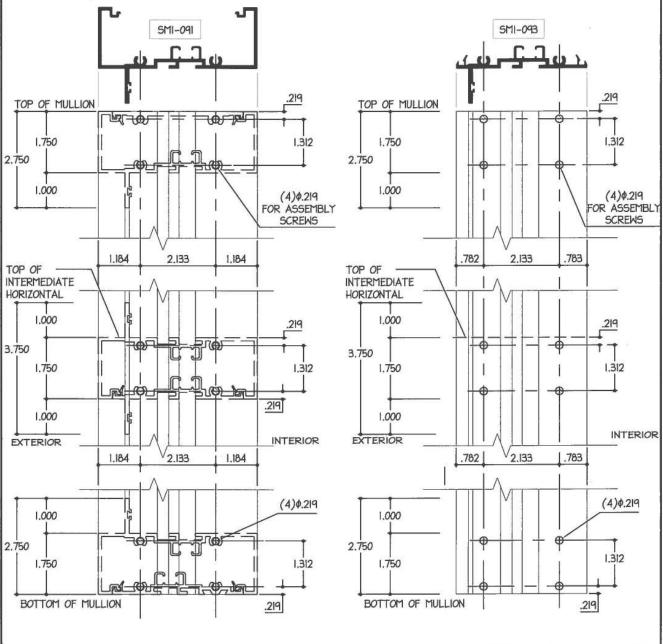


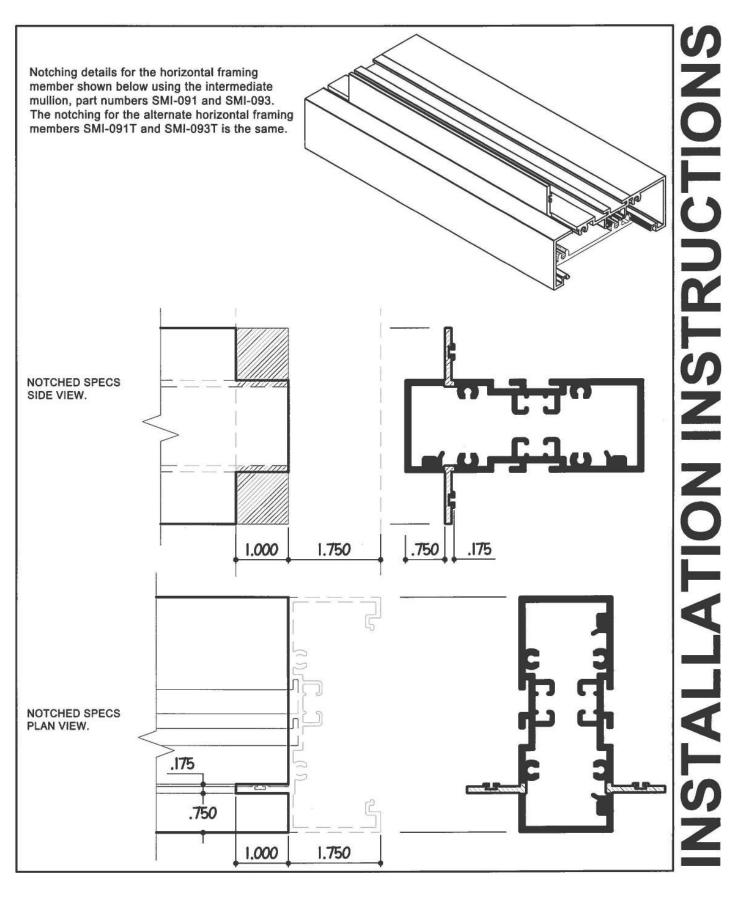


## ATION INSTRUCTIONS

Determine opening dimensions by measuring width and height and reduce each by 3/8" on all sizes. This allows for shim spacing and perimeter sealant. If the opening is not square, use the smallest dimension for each measurement before deducting for shim space.

Vertical members are cut at the frame height dimension. Horizontal members are cut to fit within vertical members. Where intersecting with the verticals members, the fin of the horizontal must be notched (see details on page 14). Assembly holes are drilled in the verticals framing member wherever horizontals are adjoined.







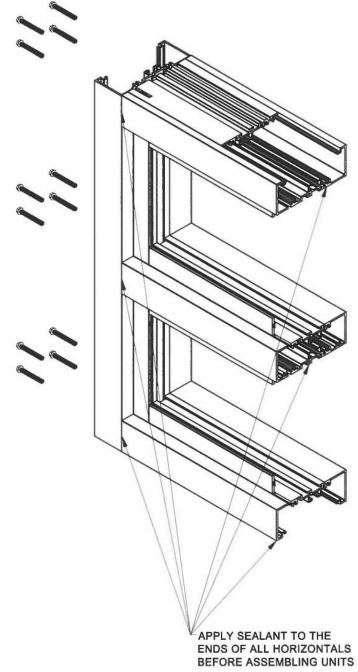
## STALLATION INSTRUCTIONS

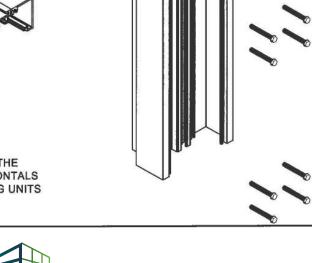
## Assembly Instructions

Apply sealant to the ends of the horizontal framing members prior to fastening to the vertical jambs or mullions. This will provide the joint seal necessary to prevent water penetration.

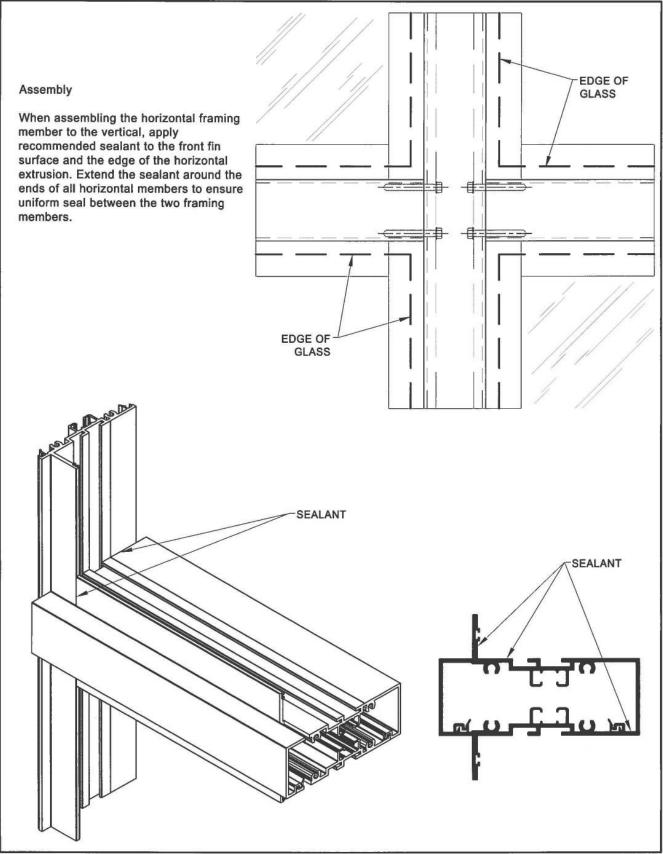
Affix the horizontal members to the vertical framing member by screwing four (4) # 12 X 1  $\frac{1}{2}$ " S.S. hex head screws into each joint location as shown below.

The fabricated frame can be pre-glazed prior to shipping.





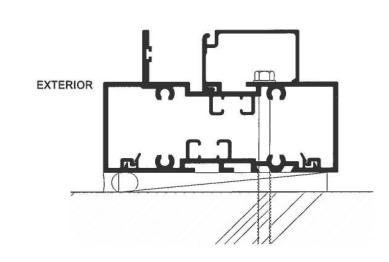
# **NSTALLATION INSTRUCTIONS**

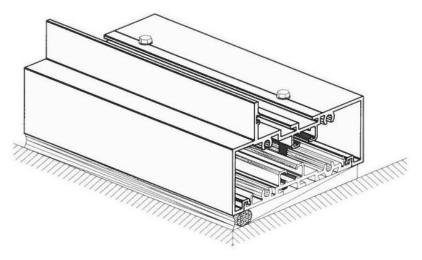


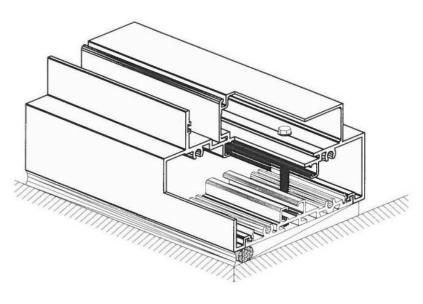
## STALLATION INSTRUCTIONS

## Installation Instructions

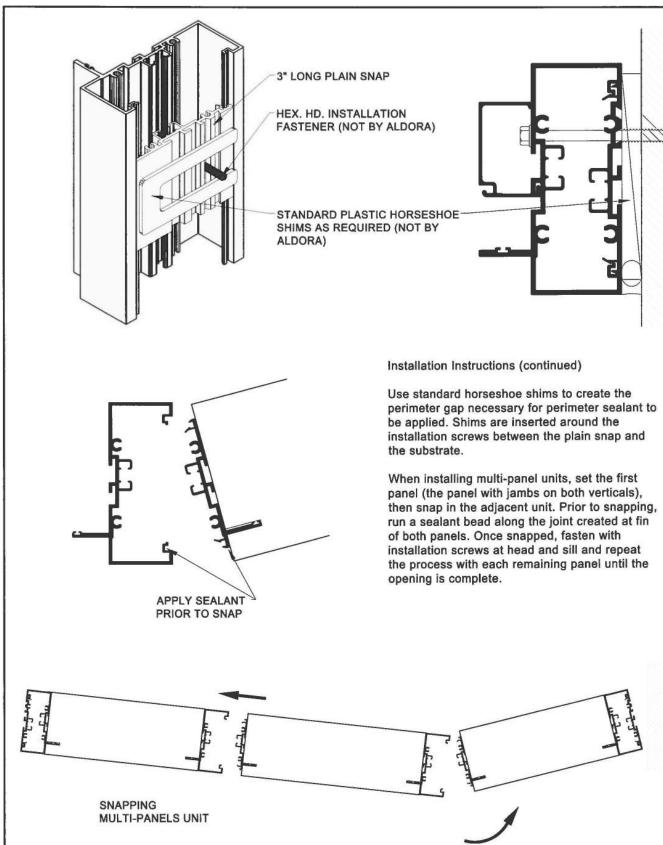
When setting the sill member, create a perimeter seal gap by shimming the sill ¼" above the substrate. Installation screws are spaced per the shop drawings and are located behind the glazing pocket. The installation screw is fastened through the sill and the plain snap and into the substrate. The screws will be covered by the glass stop after the unit has been glazed.







# ATION INSTR



## TALLATION INSTRUCTIONS

## Installation Instructions (continued)

The SMI-090 System can be glazed with four (4) different glass types; non-impact 1/4" tempered, non-impact 1" IG, impact 9/16" laminated, or impact 1 5/16" laminated insulated. Depending upon the glass type (impact or non-impact), the system is glazed two different ways.

## Option 1- Impact

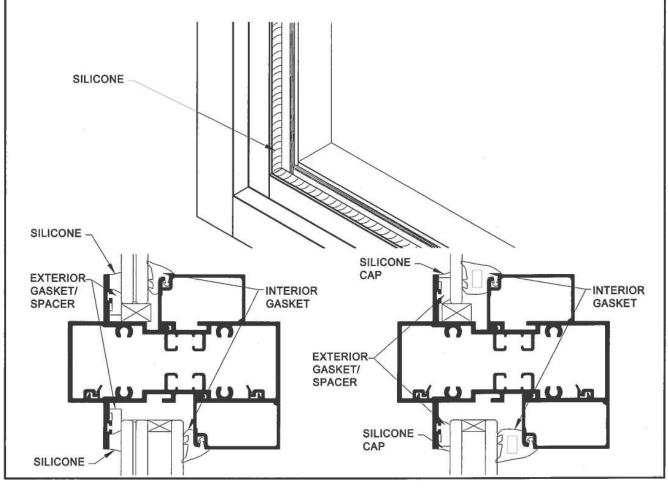
Run the gasket into the groove located on the fin of the framing member. Be sure to have the angled part of the gasket towards the top of the fin, This will create the pocket for the proper amount of structural silicone. Place the setting blocks and set the glass in the pocket. Pump silicone into the pocket from the gasket to the top of the fin. Tool the silicone so that it channels water away from the glass. Insert the glass stop in the stop guide and wedge the glazing gasket between the glass and glass stop.

Temporary glass stops may be used where screw inspections are required.

## Option 2- Non-impact

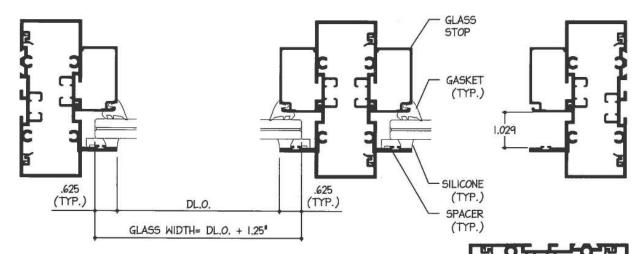
Work the gasket into the groove located on the fin of the framing member. The angled portion should be facing down with the flat surface of the gasket facing up towards the top of the fin. This will create a small pocket. Place the setting blocks and set the glass in the pocket. Pump silicone into the pocket from the gasket to the top of the fin. Tool the silicone so that it channels water away from the glass. Insert the glass stop in the stop guide and wedge the glazing gasket between the glass and glass stop.

Temporary glass stops may be used where screw inspections are required.



The SMI-090 has two variable glass stop locations. When glazing with 9/16" laminated hurricane resistant glass, use the front glass stop setting. With this setting, the glazing pocket measures approximately 1 1/16" in width.

TYPICAL GLASS SIZE IS DAYLITE OPENING (DL.O.) + 1.25"



GLAZING CHART FO	R SMI-090 STORE	EFRONT SYSTEM
NOMINAL INFILL THICKNESS	EXTERIOR GASKET	INTERIOR GASKET
9/16"	SMI-G07	SMI-G01
9/16"	SMI-G13	SMI-G01

**EXTERIOR GLAZING GASKETS:** 

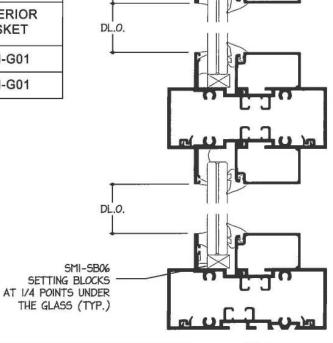


SMI-G07



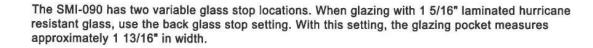
INTERIOR GLAZING GASKET:

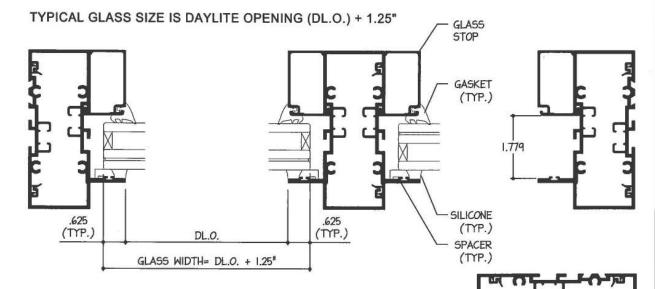




.625 (TYP.)







GLAZING CHART FO	OR SMI-090 STORE	EFRONT SYSTEM
NOMINAL INFILL THICKNESS	EXTERIOR GASKET	INTERIOR GASKET
1 5/16"	SMI-G07	SMI-G01
1 5/16"	SMI-G13	SMI-G01

## EXTERIOR GLAZING GASKETS:

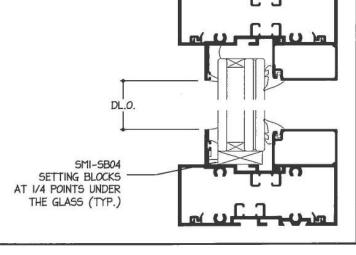


SMI-G07



## INTERIOR GLAZING GASKET:

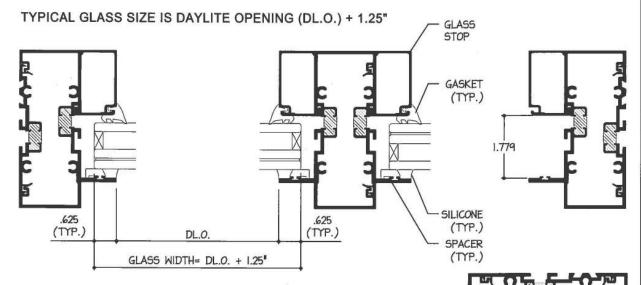




.625 (TYP.)

DL.O.

Aldora's SMI-090 system has an optional thermal break for energy performance. Please specify your thermal break requirement when ordering. The thermal break is most efficient when used with insulated -laminated 1 5/16" hurricane resistant glazing. The glazing pocket measures approximately 1 13/16" in width.



GLAZING CHART FO	OR SMI-090 STORE	EFRONT SYSTEM
NOMINAL INFILL THICKNESS	EXTERIOR GASKET	INTERIOR GASKET
1 5/16"	SMI-G07	SMI-G01
1 5/16"	SMI-G13	SMI-G01

## EXTERIOR GLAZING GASKETS:

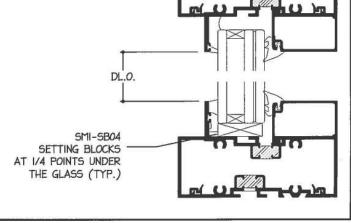


SMI-G07



INTERIOR GLAZING GASKET:



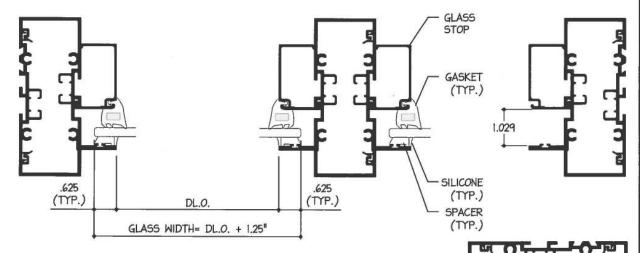


.625 (TYP.)

DL.O.

The SMI-090 system can be glazed using 1/4" tempered glass. Use the front glass stop setting creating 1 1/16" wide glazing pocket. This glass type requires the SMI-G07 gasket on the exterior and the SMI- G08 gasket on the interior.

TYPICAL GLASS SIZE IS DAYLITE OPENING (DL.O.) + 1.25"



GLAZING CHART FO	OR SMI-090 STOR	EFRONT SYSTEM
NOMINAL INFILL THICKNESS	EXTERIOR GASKET	INTERIOR GASKET
1/4"	SMI-G07	SMI-G08

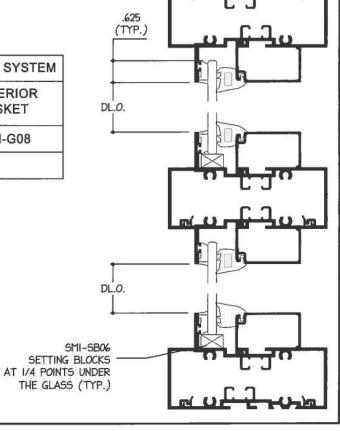
**EXTERIOR GLAZING GASKETS:** 



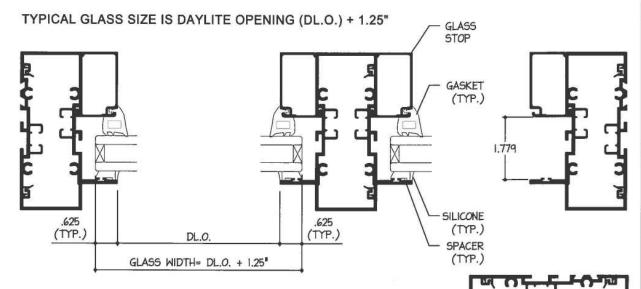
SMI-G07

INTERIOR GLAZING GASKET:





Aldora's SMI-090 system can accept a 1" IGU (Insulated Glass Unit). When glazing with 1" IG, use the back glass stop setting location. This will create a 1 13/16" wide glazing pocket. Use the SMI-G07 (Exterior) and the SMI- G08 (Interior) gaskets to secure the glass in place.



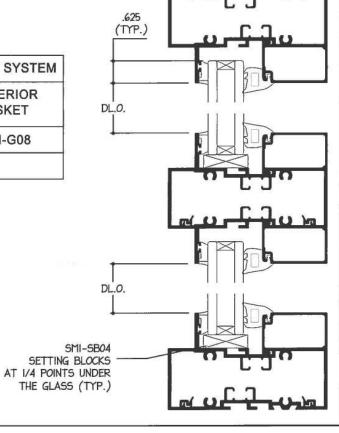
NOMINAL INFILL	EXTERIOR	INTERIOR
THICKNESS	GASKET	GASKET
1"	SMI-G07	SMI-G08

## **EXTERIOR GLAZING GASKETS:**



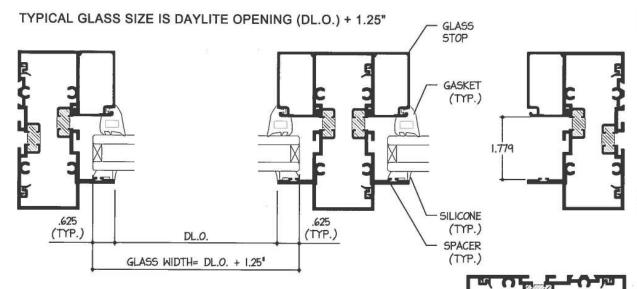
## INTERIOR GLAZING GASKET:





## **UCTIONS**

The SMI-090 system can also be thermally broken for conditions requiring superior energy performance. When glazing with a 1" IGU (Insulated Glass Unit), use the back glass stop setting. This will provide a 1 13/16" glazing pocket. The G7 gasket (exterior) and the G08 (interior) will secure the glass in place.



NOMINAL INFILL	EXTERIOR	INTERIOR
THICKNESS	GASKET	GASKET
1"	SMI-G07	SMI-G08

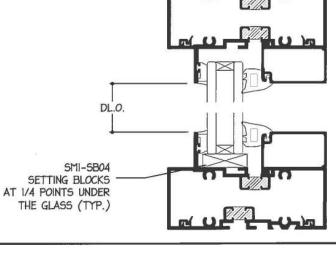
**EXTERIOR GLAZING GASKETS:** 



SMI-G07

INTERIOR GLAZING GASKET:





.625 (TYP.)

DL.O.

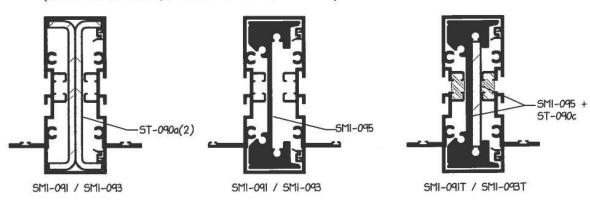
## LATION INSTRUCTIONS ISTAL

The 090 System has multiple reinforcement options depending on the size of the units and the design pressures required. The reinforcements must run the entire length of the vertical member. Please consult with your Aldora representative to ensure you use the proper reinforcement.

All steel must be coated with a corrosion-inhibitor including any cut ends.

ST	EEL REINFORCEMENT O	CHART FOR 090 SY	STEM
PART#	SPECS	MULLION PART #	UNANCHORED JAMB PART #
	ALUMINUM REINFORCEMENT	SMI-091/093	SMI-091/094
SMI-095		SMI-091T/093T	SMI-091T/094T
	3/4" X 4 1/4" X 3/4" 3/16" THK. FORMED STL. CHANNEL	SMI-091/093	SMI-091/094
ST-090a		SMI-091T/093T	SMI-091T/094T
	ST-090c 1/4" X 3" STL. BAR	SMI-091/093	SMI-091/094
21-090C		SMI-091T/093T	SMI-091T/094T

STEEL REINFORCEMENT AT THE STANDARD MULLION (WHEN REQUIRED, REFER TO NOA'S CHARTS)



STEEL REINFORCEMENT AT THE UNANCHORED JAMB (WHEN REQUIRED, REFER TO NOA'S CHARTS)

