

PERFORMANCE

The simulated hung and simulated slider application is a selection of configurations for the Series 1450 / 1450S window. The Series 1450 window and 1450S window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

Fix	ced		Project Out - Awning						
AAMA Rating	AW	'-100	AAMA Rating	AW-100					
Air Infiltration	0.0 C	FM/ft ²	Air Infiltration	0.02 CFM/ft ²					
Water	Over	12 psf	Water	Over 12 psf					
Structural	150	psf	Structural	150 psf					
CRF (AAMA 1503)	6	5	CRF (AAMA 1503)	60					
Center of Glass U-Value	Window l	J-Factor ³	Center of Glass U-Value	Window U-Factor ³					
BTU/Ft ² x F° x Hr	47" x 59" ² 60" x 99" ¹		BTU/Ft ² x F° x Hr	59" x 24" ²	60" x 36" ¹				
0.20	0.34 0.29		0.20	0.49	0.43				
0.24	0.37 0.33		0.24	0.52	0.45				
0.29	0.41 0.37		0.29	0.55	0.49				
0.34	0.45	0.41	0.34	0.58	0.52				
0.47	0.55	0.52	0.47	0.65	0.61				

Project In	- Hopper		Casement						
AAMA Rating	AW	'-100	AAMA Rating	AW-100					
Air Infiltration	0.01 C	FM/ft ²	Air Infiltration	0.08 CFM/ft ²					
Water	Over	12 psf	Water	Over 12 psf					
Structural	150	psf	Structural	150 psf					
CRF (AAMA 1503)	6	8	CRF (AAMA 1503)	60					
Center of Glass U-Value	Window l	J-Factor ³	Center of Glass U-Value	Window U-Factor ³					
BTU/Ft ² x F° x Hr	59" x 24" ² 60" x 36" ¹		BTU/Ft ² x F° x Hr	24" x 59" ²	36" x 60" ¹				
0.20	0.49	0.43	0.20	0.49	0.43				
0.24	0.52 0.45		0.24	0.52	0.45				
0.29	0.55 0.49		0.29	0.55	0.49				
0.34	0.58	0.52	0.34	0.58	0.52				
0.47	0.65	0.61	0.47	0.65	0.61				

This Information is based on current product design, sealed dual glazing, warm edge spacers and testing standards.

Please contact WINCO for project specific information

¹ AAMA 101 Test Size

² NFRC Gateway Test Size

³ Based on NFRC 100



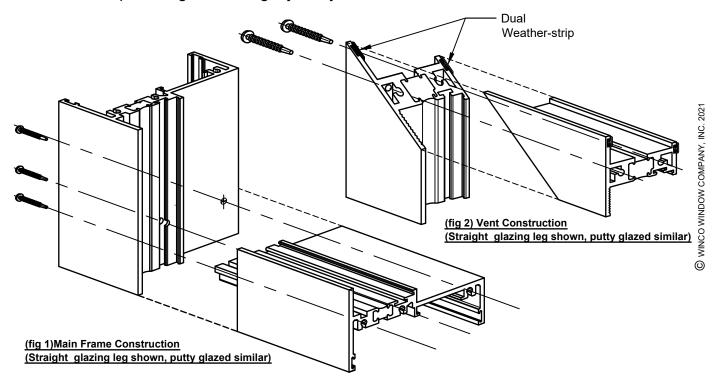
CONSTRUCTION

MATERIAL - The Simulated Hung and Simulated Slider configurations are based on Series 1450 or Series 1450S window, which is a 4" deep frame depth with a nominal wall thickness of .063 inch. All material is extruded from 6063-T6 alloy.

THERMAL BREAK - All framing members of the window system are thermally broken. Winco uses the Azon Azo Brader® process to mechanically condition the surface of the thermal cavity. The process runs the entire length of the extrusion and creates serrations that insure proper adhesion of the structural polymer. The structural urethane is a high density 2 part formula providing optimum thermal performance for the most demanding conditions. The combination of the conditioning of the aluminum surface along with the two part urethane allows Winco to provide a full 10 year warranty against thermal break creep and shrinkage in accordance with AAMA 505-98.

WEATHER-STRIP - All operating ventilators have a double Santoprene®, non-shrinking dual durometer, thermoplastic rubber weather-stripping around the perimeter. One interior and one exterior.

FABRICATION - The main frame corners are coped and mechanically joined using two stainless steel spline screws per corner (fig 1). The vent is a hollow tube shaped extrusion for superior strength and rigidity. Vent corners are fully mitered and mechanically joined using two stainless steel spline screws per corner, aligning the members to form a hairline joint (fig 2). All frame joints are back sealed with small joint seam sealer providing a water tight joinery.



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GLAZING

The windows can be interior or exterior glazed with .050 thick extruded aluminum glazing beads accommodating thicknesses from 1/8" up to 1 1/2" for the straight leg and up to 1" for the putty glazed configurations. Dual or triple glazing is an option utilizing an interior panel sash that can either be hinged with 4-bar stainless steel hinges or a more economical take out sash. Venetian blinds are available with the dual or triple glazed window options. See the quick reference chart below for all glazing options. For actual details refer to the glazing section in the back of the 1450 section for optional glazing and blind details.

Glazing Th	nickness	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/4"	1-3/8"	1-1/2"
Insula	ted	-	-	-	-	-	-	-	-	-	Χ	Χ	X 1	X 1	X 1
Dual	Exterior	-	Χ	Χ	-	-	-	-	Χ	-	-	-	-	-	-
Glazed	Interior	Χ	Χ	Χ	-	Χ	Χ	Χ	•	-	•	-	-	-	-
Triple	Exterior	-	-	-	-	-	-	-	Χ	-	-	Χ	-	-	-
Glazed	Interior	Χ	Χ	Χ	-	Χ	Χ	Χ	-	-	-	-	-	-	-

^{1 -} I.G. in excess of 1" require straight leg frame & sash.

Winco has different gaskets and glazing methods that can accommodate odd thicknesses of glass. If you do not see what you are looking for within this chart please contact your local representative for information regarding your specific project needs.

HARDWARE

All exposed locking hardware, strikes and keepers are solid white bronze alloy with US25D brushed finish. All four bar arms, casement arms, friction arms and key release limit arms are stainless steel conforming to AAMA 904.1. Five knuckle butt hinges are fabricated of 6063-T6 aluminum with nylon bushings and a stainless steel hinge pin.

Window Type	Butt Hinge	4-Bar Arms	Casement Arms	Friction Adjustable	Roto Operator	Cam Lock	Pole Ring Cam Lock	Access Control Lock	Lift Lock	Pole Ring Lift Lock	Pull Handle	Key Release Limit Arm	Fixed Limit Stop	Under Screen Push Bar
PO - Awning	-	Х	-	-	0	Х	0	0	0	0	0	0	0	O 5
PI - Hopper	-	Х	-	-	-	Х	0	0	0	0	-	0	0	-
Casement - Outswing w/ concealed Hinges	-	-	Х	-	O ^{2, 4}	0	O 3	0	0	0	Х	0	0	O ^{2, 5}
Casement - Inswing w/ concealed Hinges	-	-	Х	-	-	0	0	0	Х	0	-	0	0	-

X = Standard Hardware

Note:

- ¹ Not all hardware is compatible with each other, contact your local Winco representative for information
- $^{2}\,$ Size limitations exist on some hardware, contact your local Winco representative for information
- ³ A pole ring pull will be provided on a project out vent is optional pole ring cam locks are required and no screen is furnished
- ⁴ Minimum width requirement for optional roto operators on casement windows with concealed casement arm hinging
- ⁵ Under screen push bars are not recommended by Winco if optimum water performance is a requirement

O = Optional Hardware

4" Thermal Hung Replica and Slider Replica Windows Product Information



SCREENS

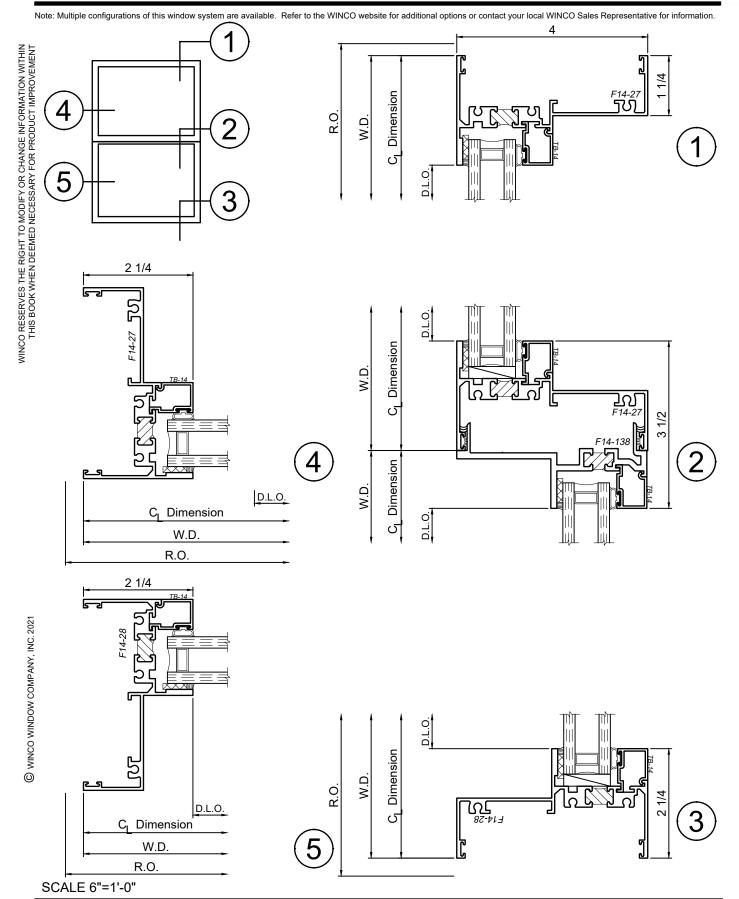
FRAME - frames are fabricated from 6063-T6 extruded aluminum alloy and temper. All screen frames are miter cut and corner keyed. The corners are mechanically crimped together for durability. The screen frame is finished to match the window frame.

MESH - Standard .011 aluminum screen wire mesh is produced from 5154 alloy with 18x16 pattern in Charcoal or Aluminum color. All mesh is applied to the screen frame with a roller spline making for easy and quick replacements. Optional fiberglass or .009 stainless steel mesh is available as an option.

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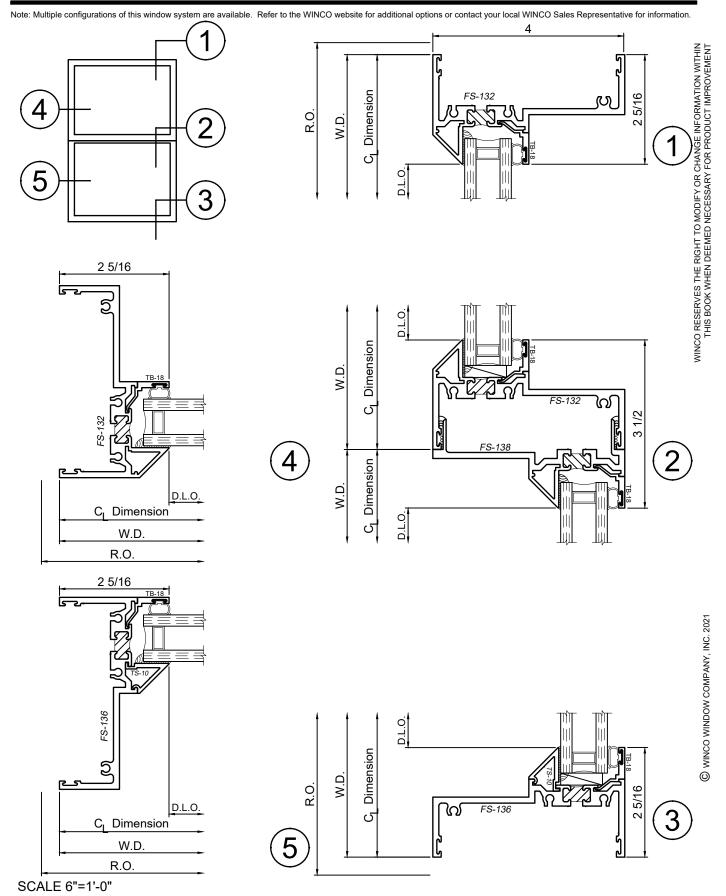
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over Fixed [HR-1]





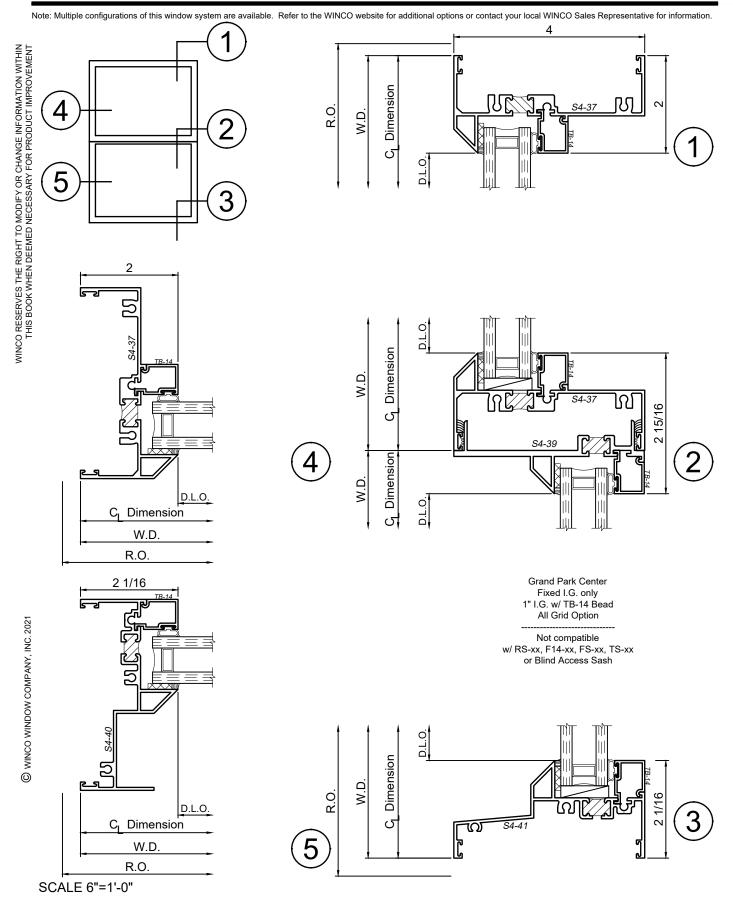
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over Fixed [HR-2]





4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over Fixed [HR-3]

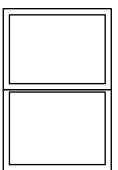




4" Thermal Hung Replica and Slider Replica Windows Product Details -



Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



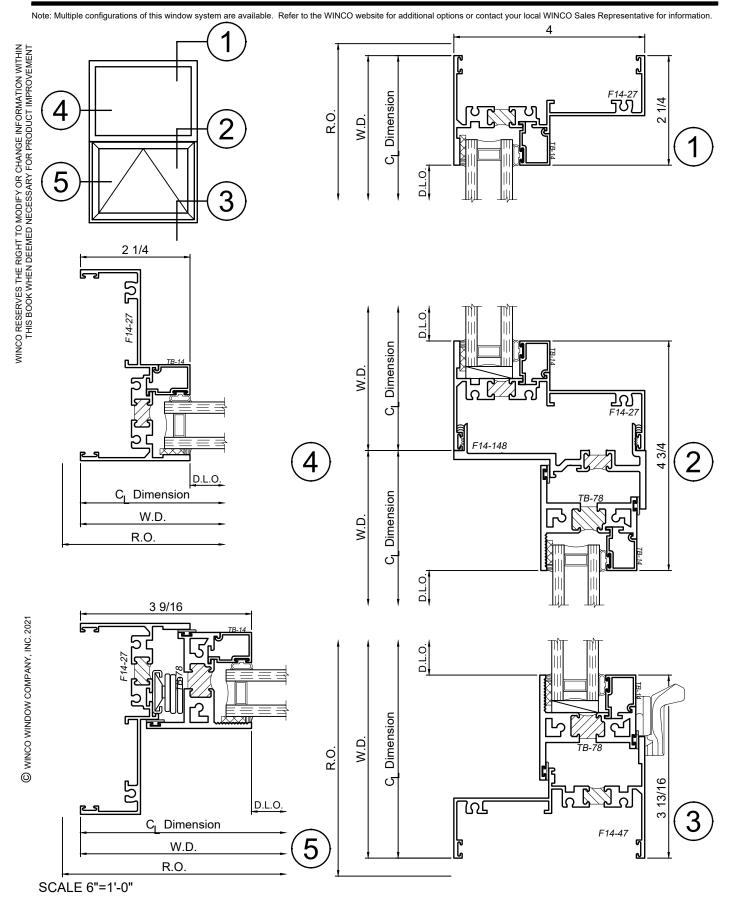
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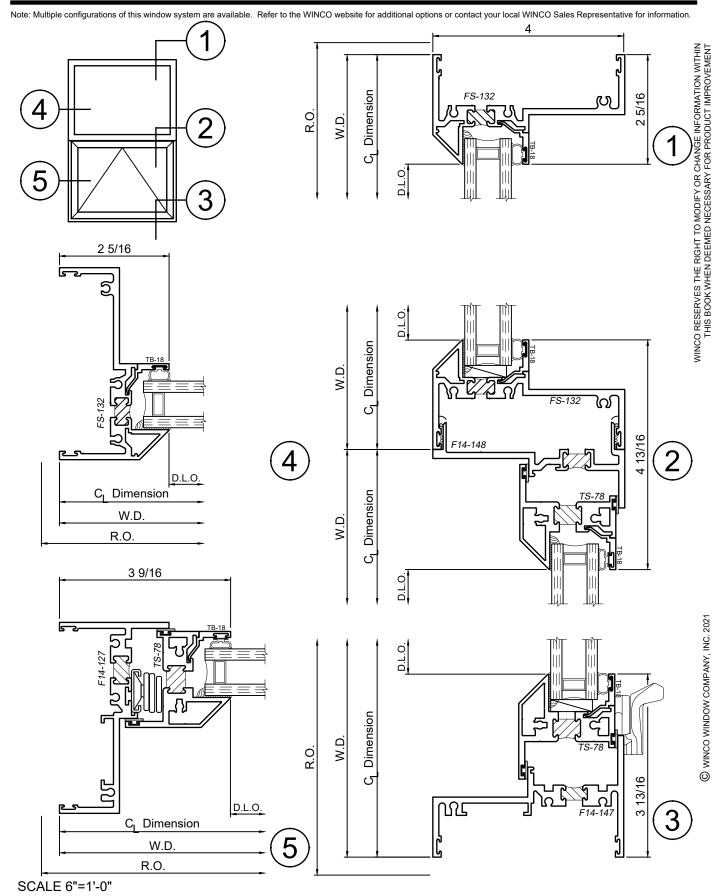
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over PO [HR-5]





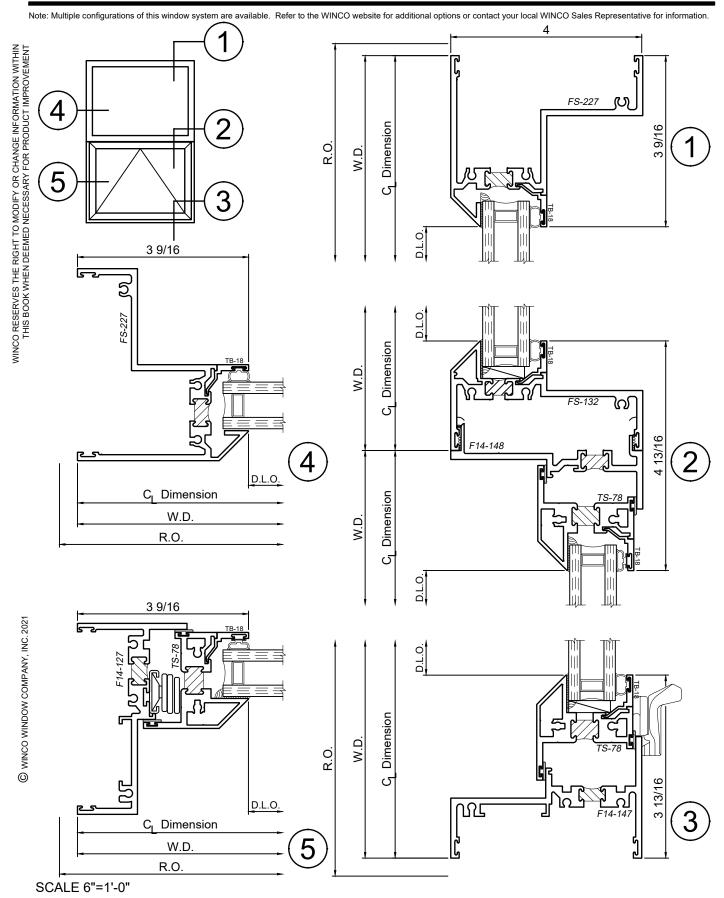
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over PO [HR-6]





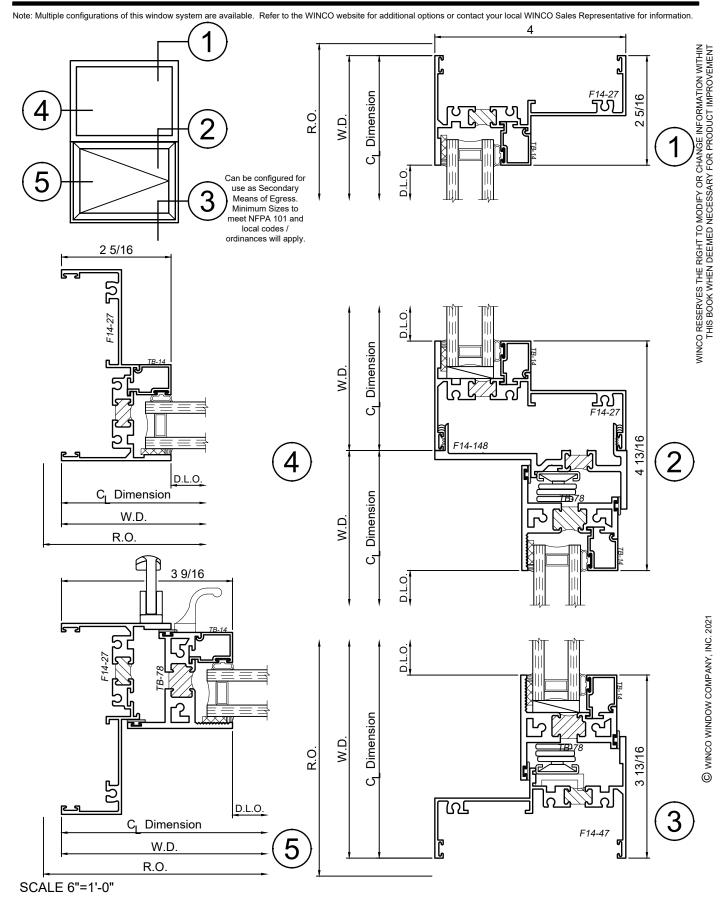
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over PO [HR-7]





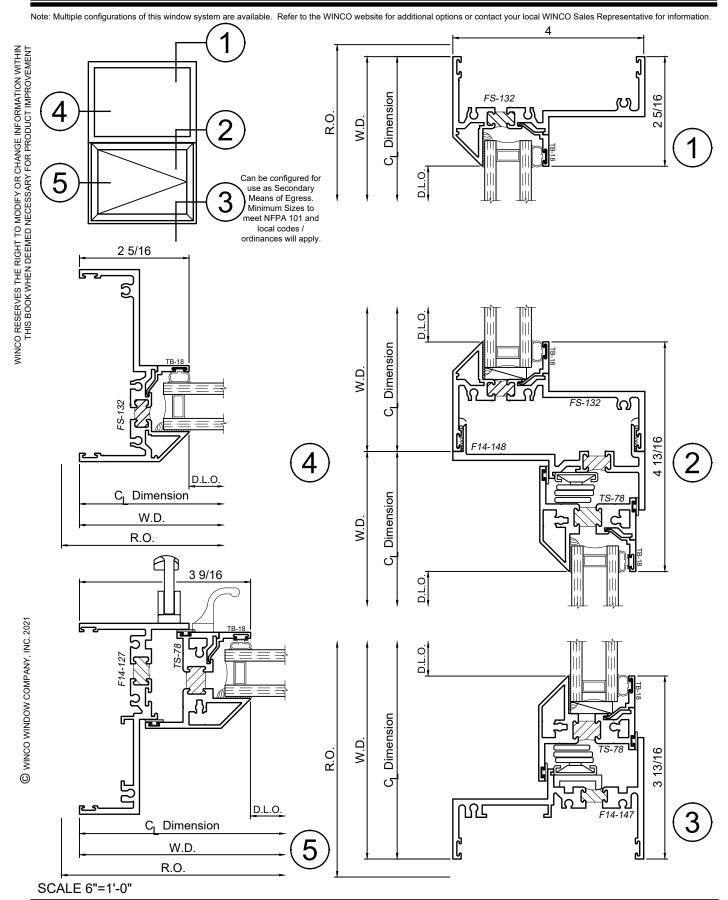
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over Outswing Casement [HR-8]





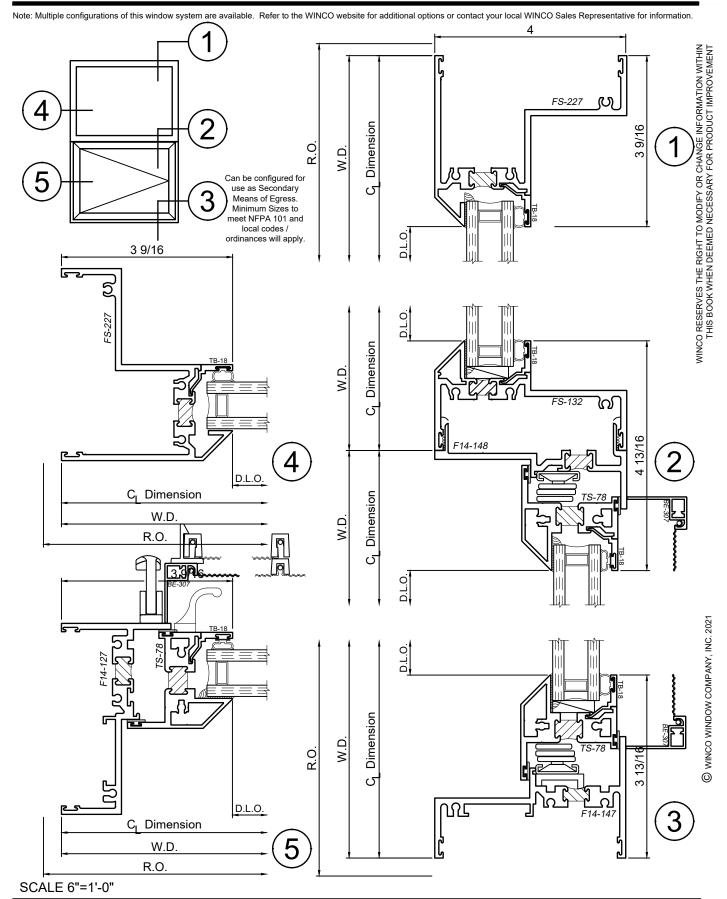
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over Outswing Casement [HR-9]





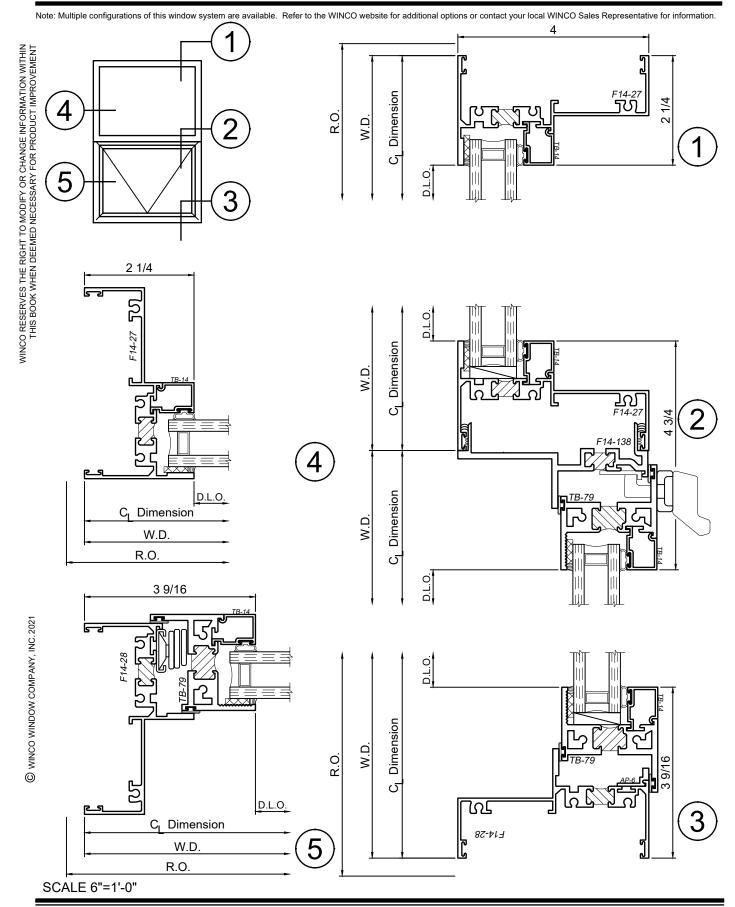
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over Outswing Casement [HR-10]





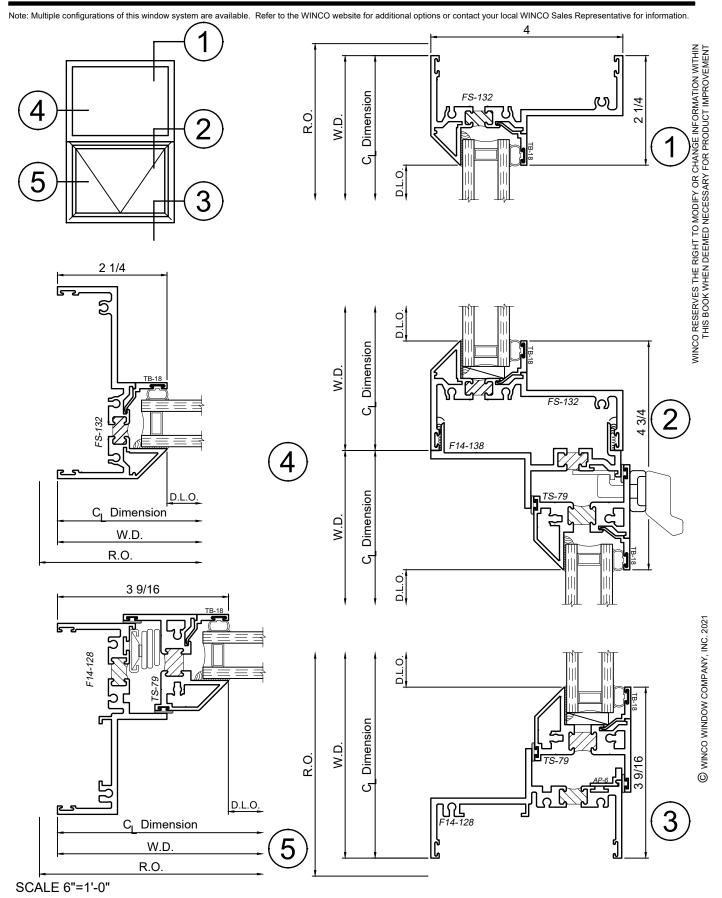
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over PI [HR-11]





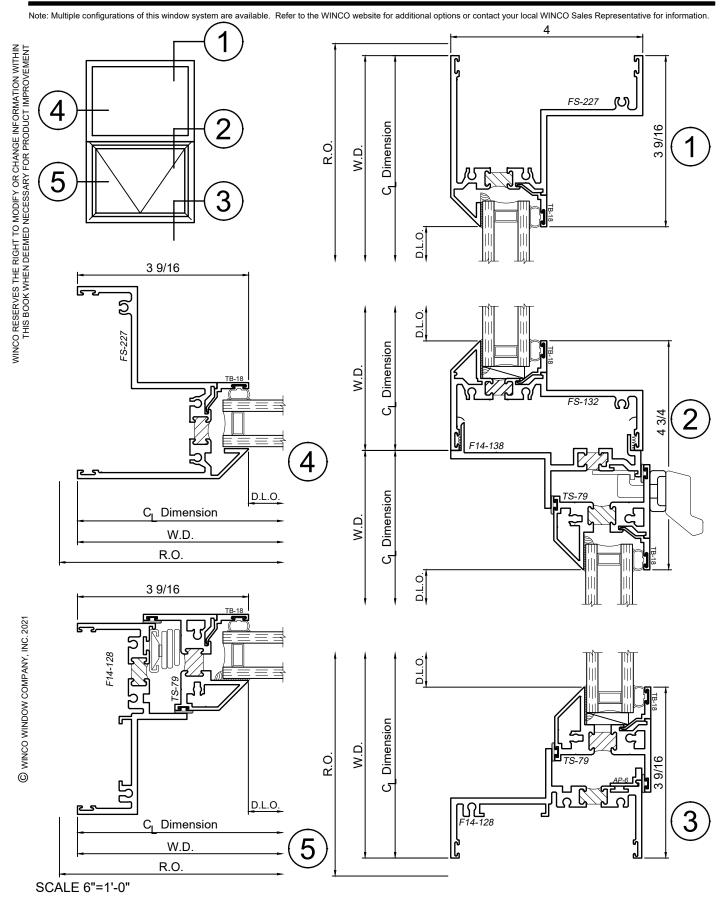
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over PI [HR-12]





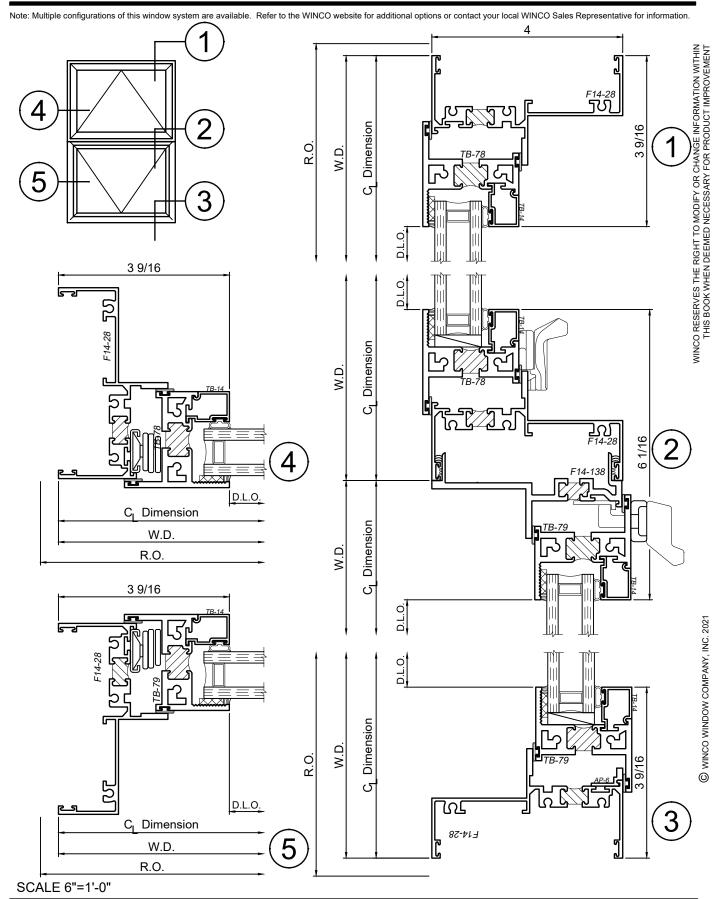
4" Thermal Hung Replica and Slider Replica Windows Product Details - Fixed over PI [HR-13]





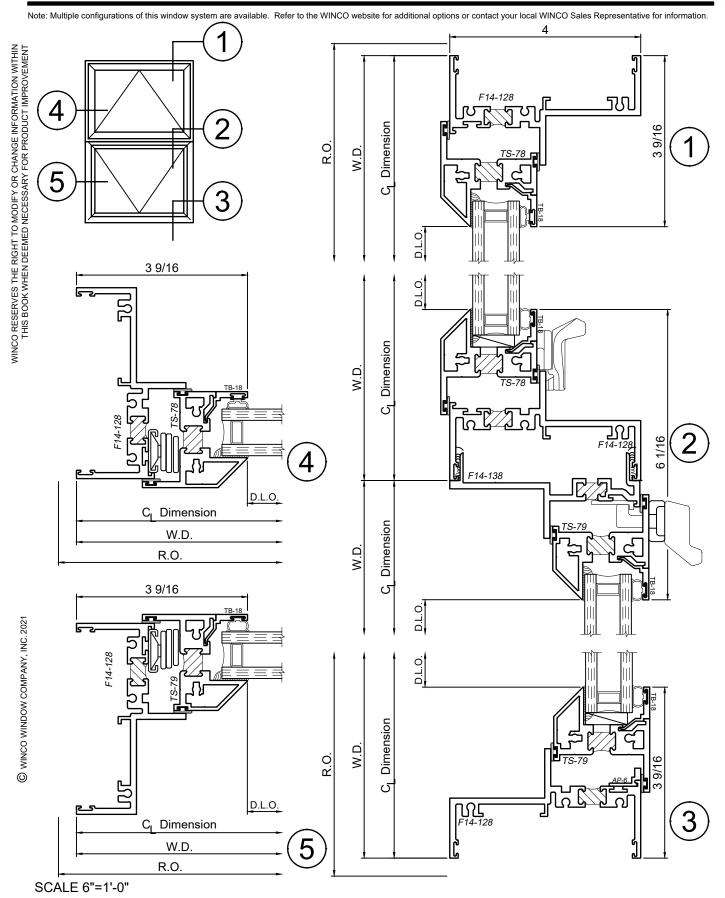
4" Thermal Hung Replica and Slider Replica Windows Product Details - PO over PI [HR-14]





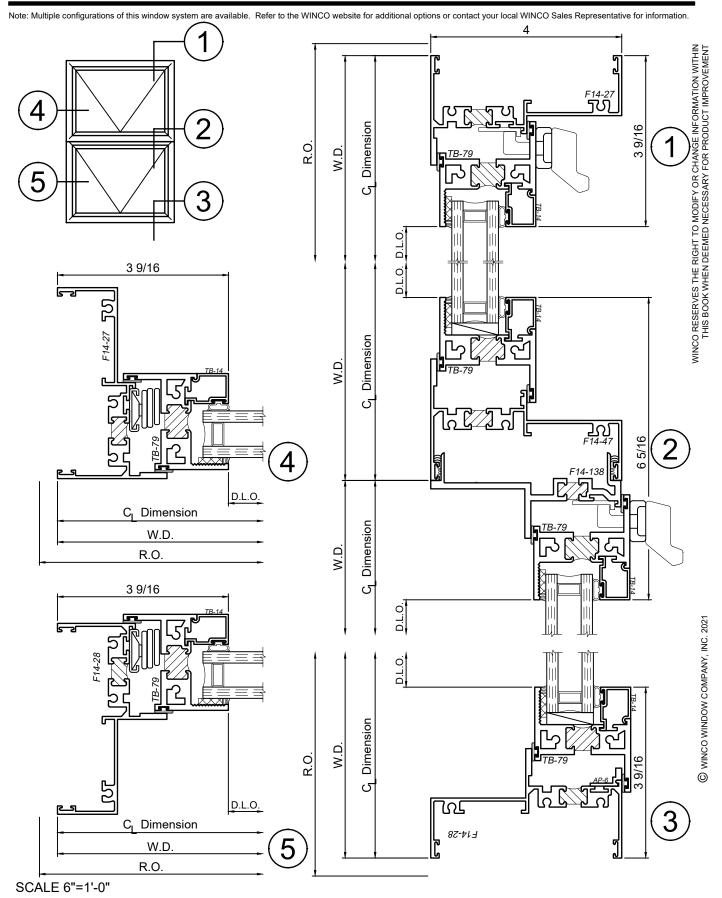
4" Thermal Hung Replica and Slider Replica Windows Product Details - PO over PI [HR-15]





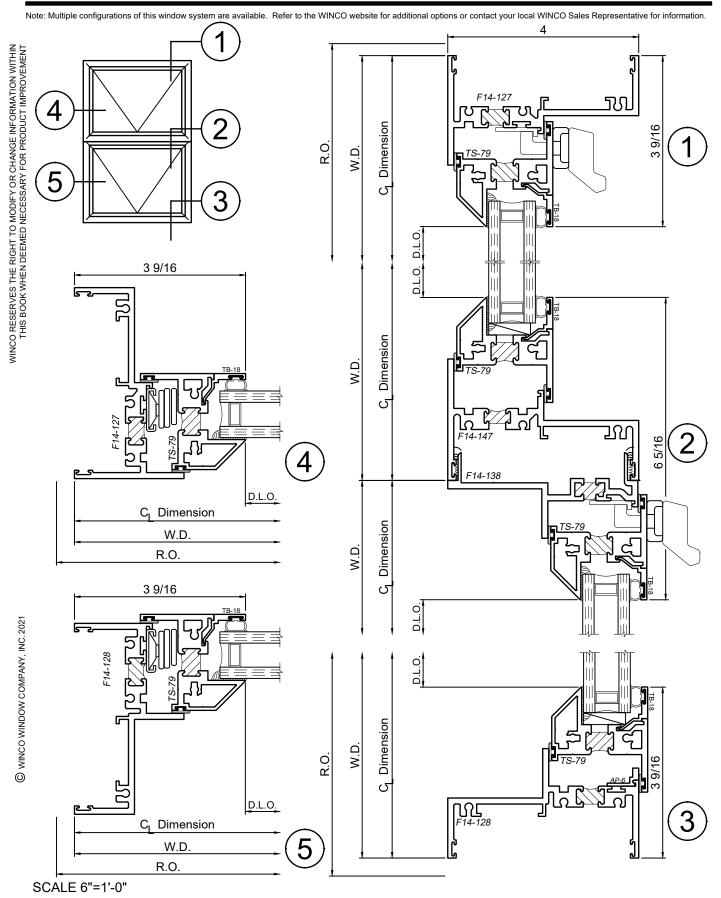
4" Thermal Hung Replica and Slider Replica Windows Product Details - PI over PI [HR-16]





4" Thermal Hung Replica and Slider Replica Windows Product Details - PI over PI [HR-17]

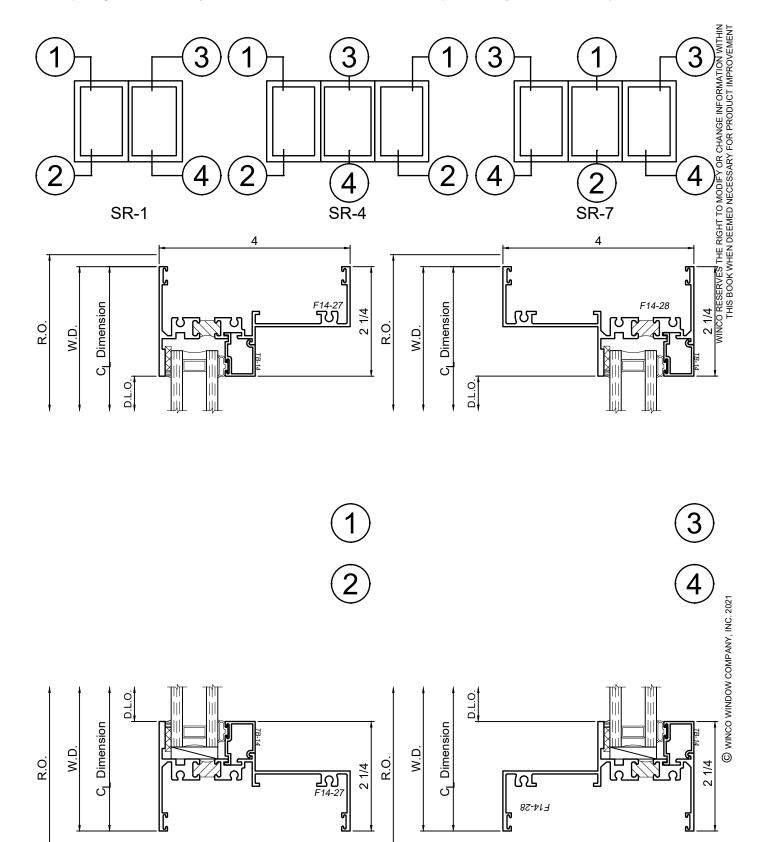




4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-1,4 & 7]



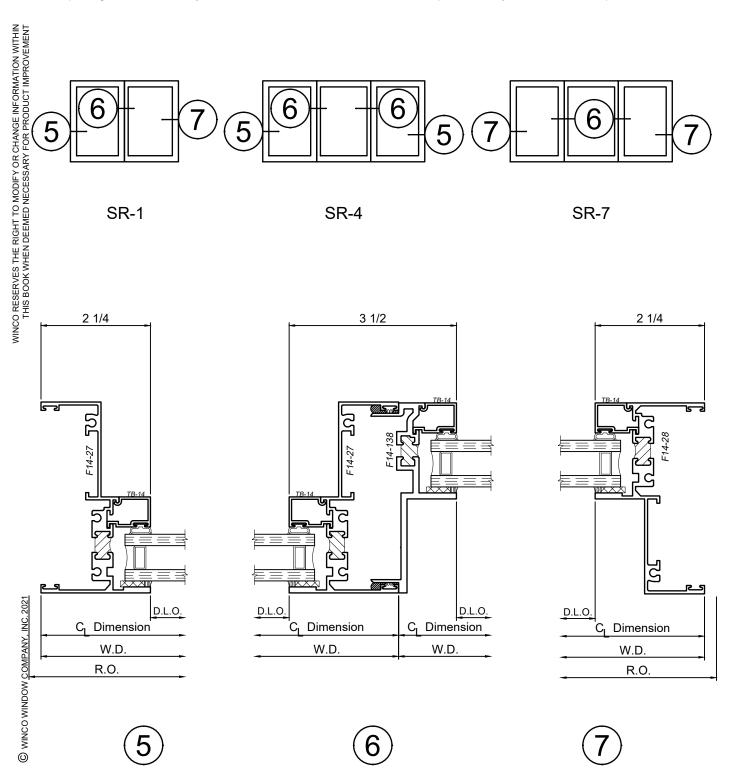
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-1,4 & 7]



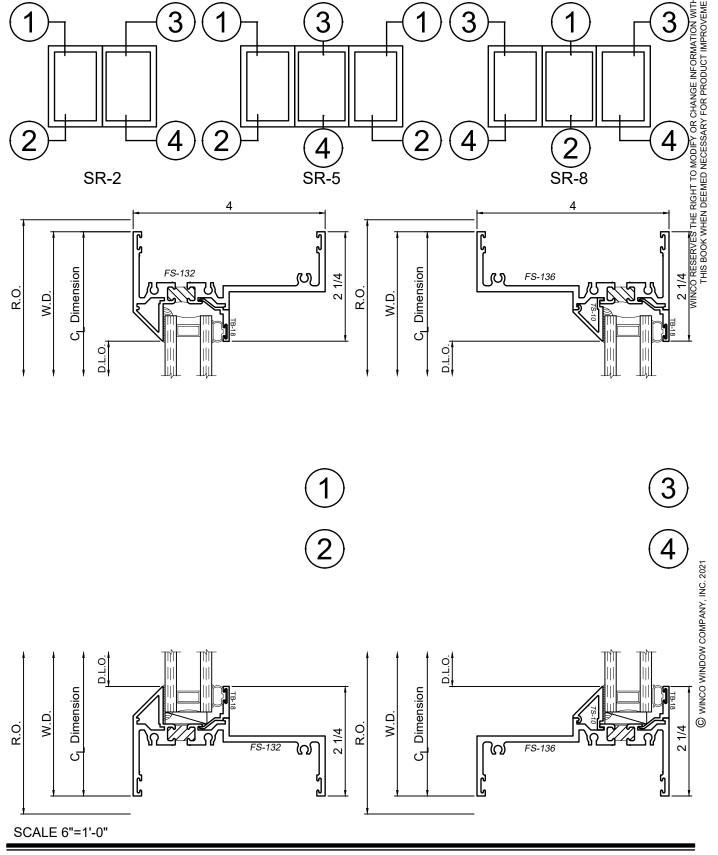
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-2,5 & 8]



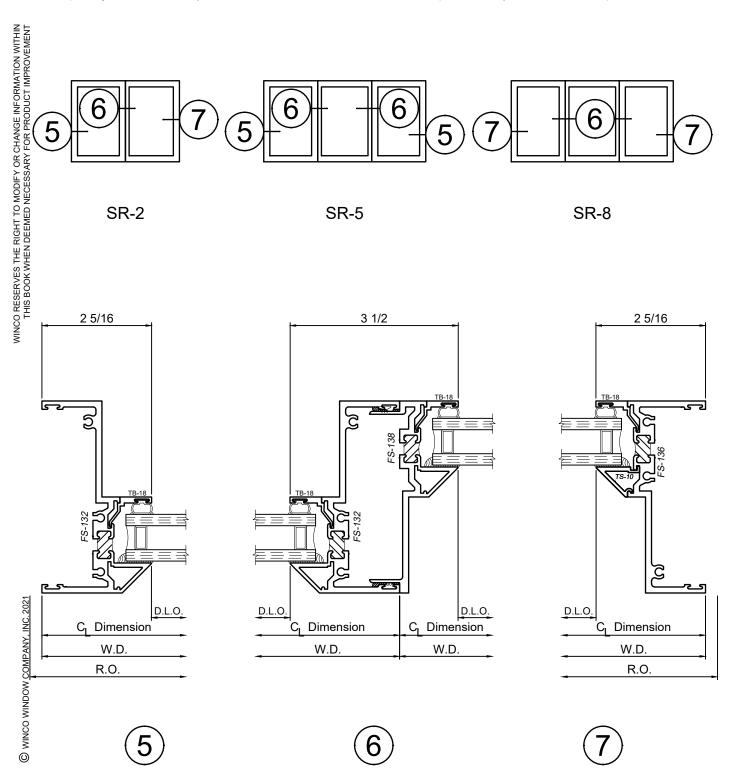
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-2,5 & 8]



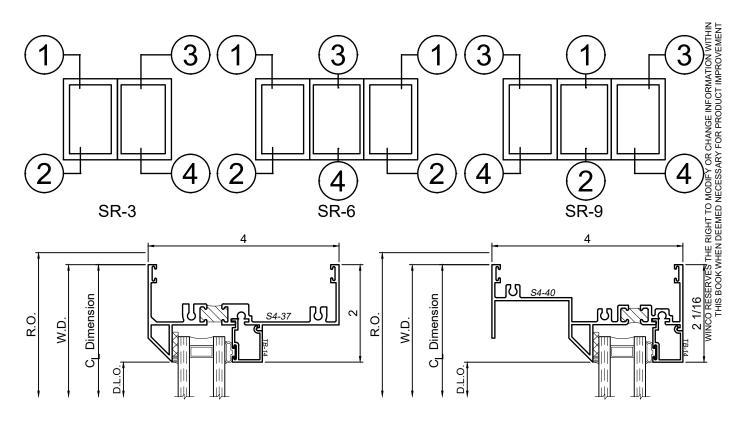
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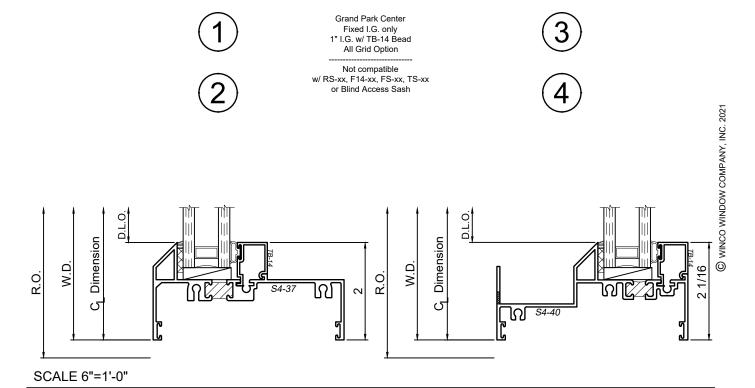


4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-3,6 & 9]



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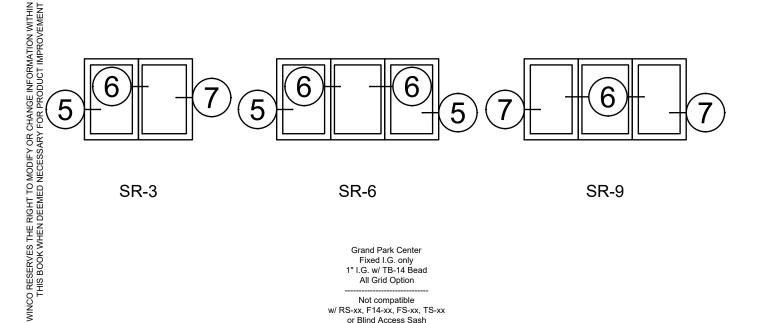




4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-3,6 & 9]

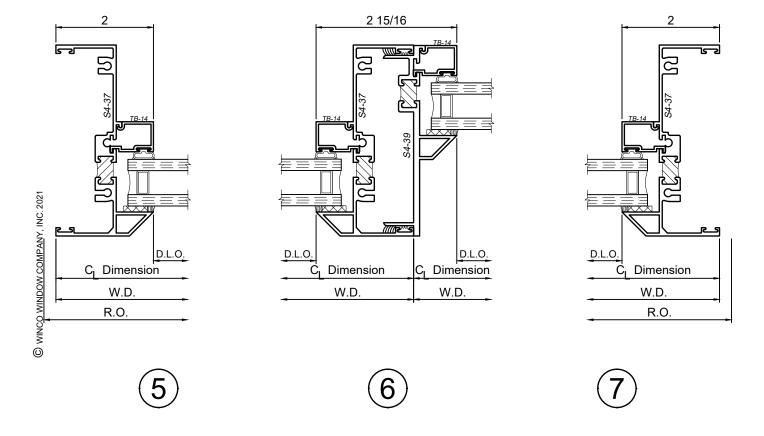


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Not compatible

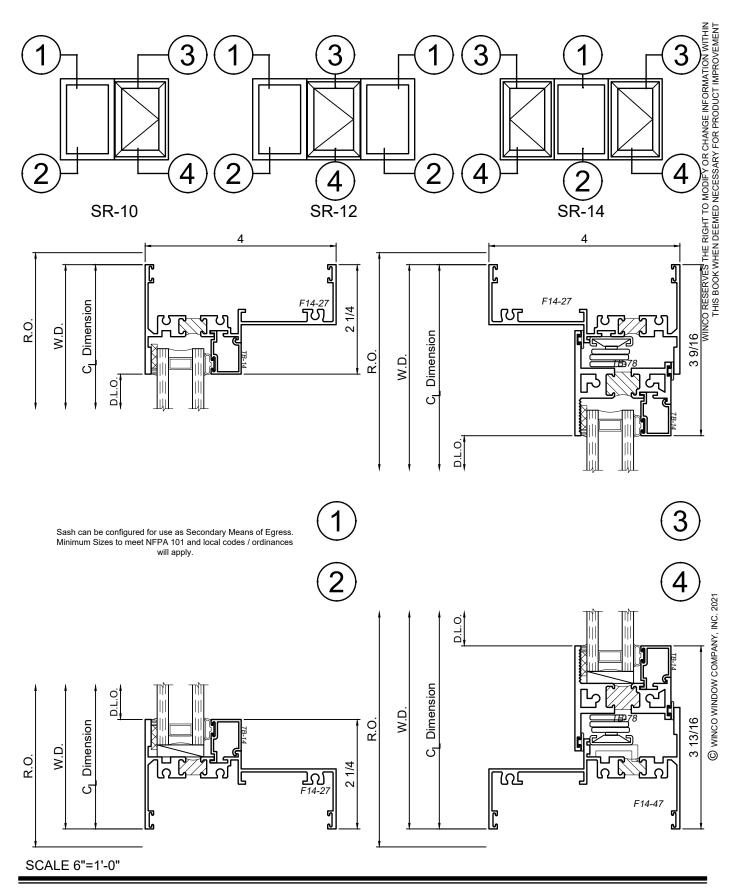
w/ RS-xx, F14-xx, FS-xx, TS-xx or Blind Access Sash



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-10,12 & 14]



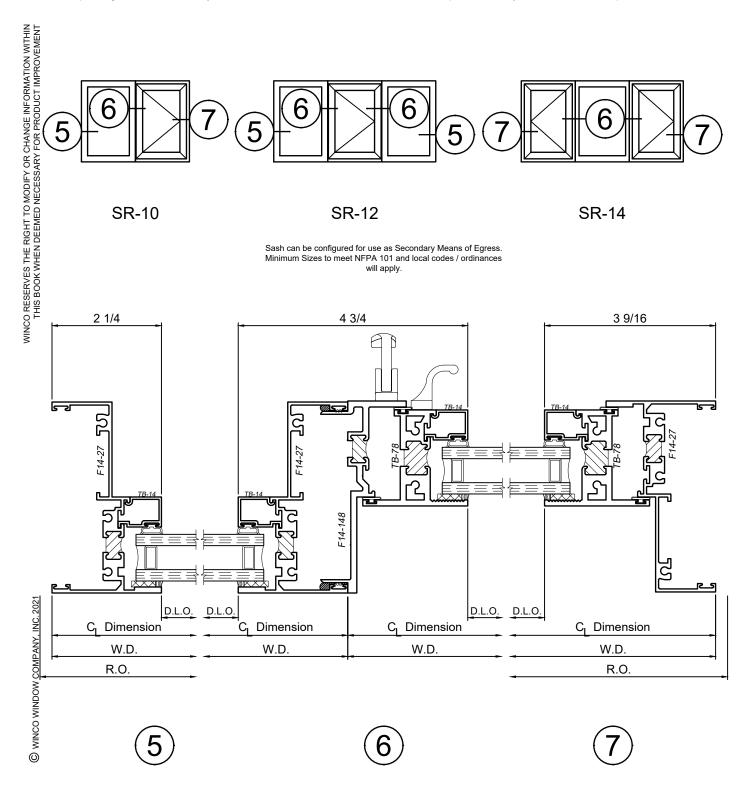
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-10,12 & 14]



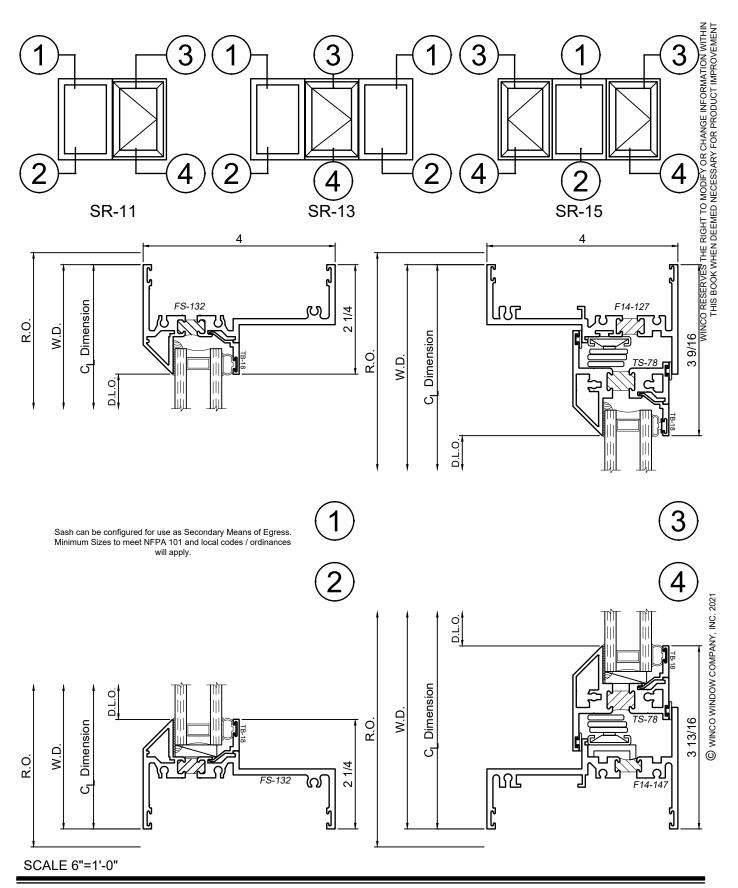
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4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-11,13 & 15]



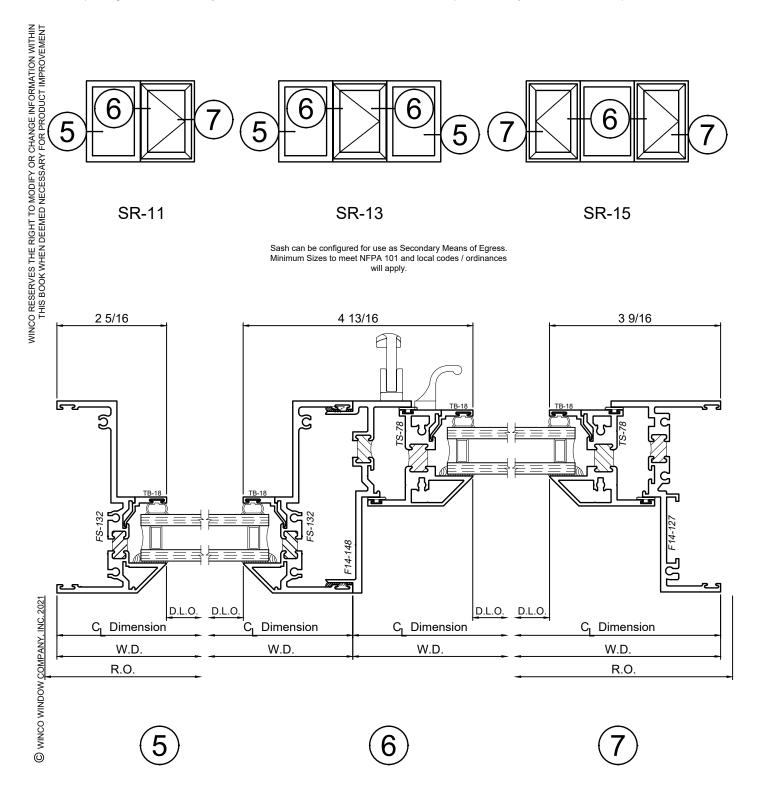
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4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-11,13 & 15]



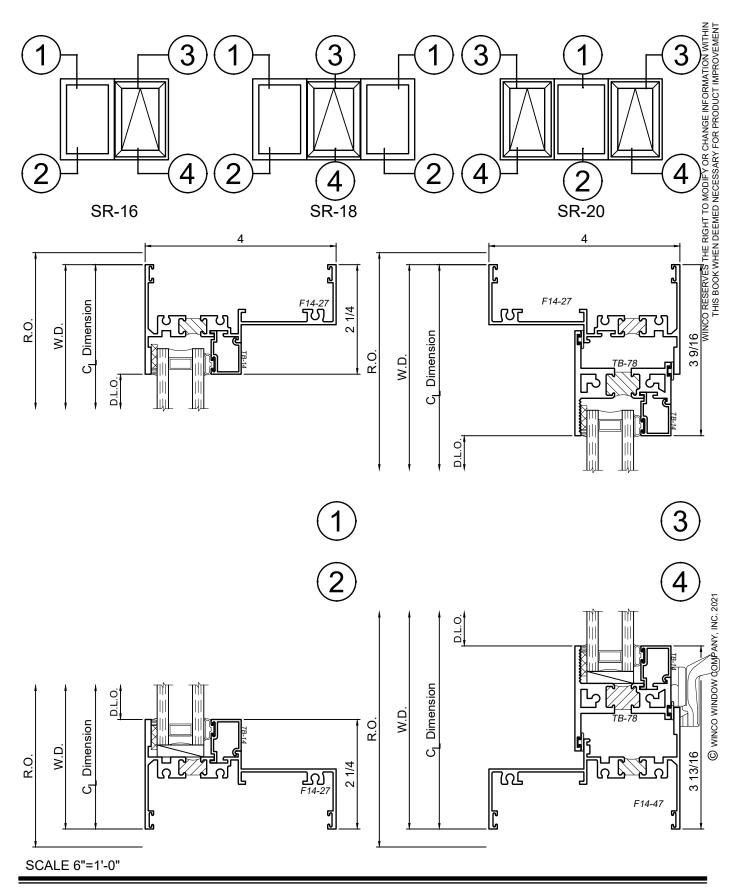
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-16,18 & 20]



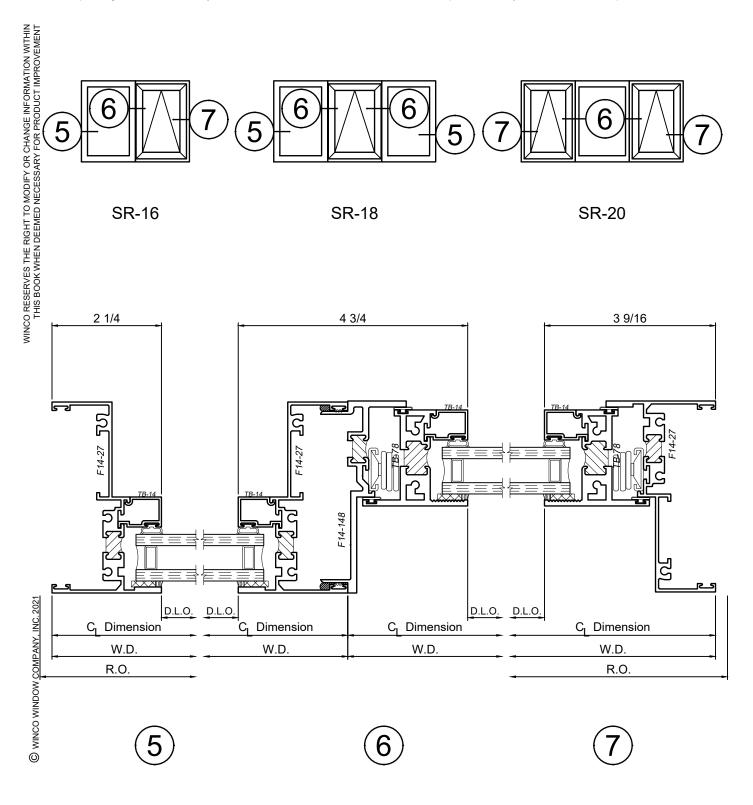
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-16,18 & 20]



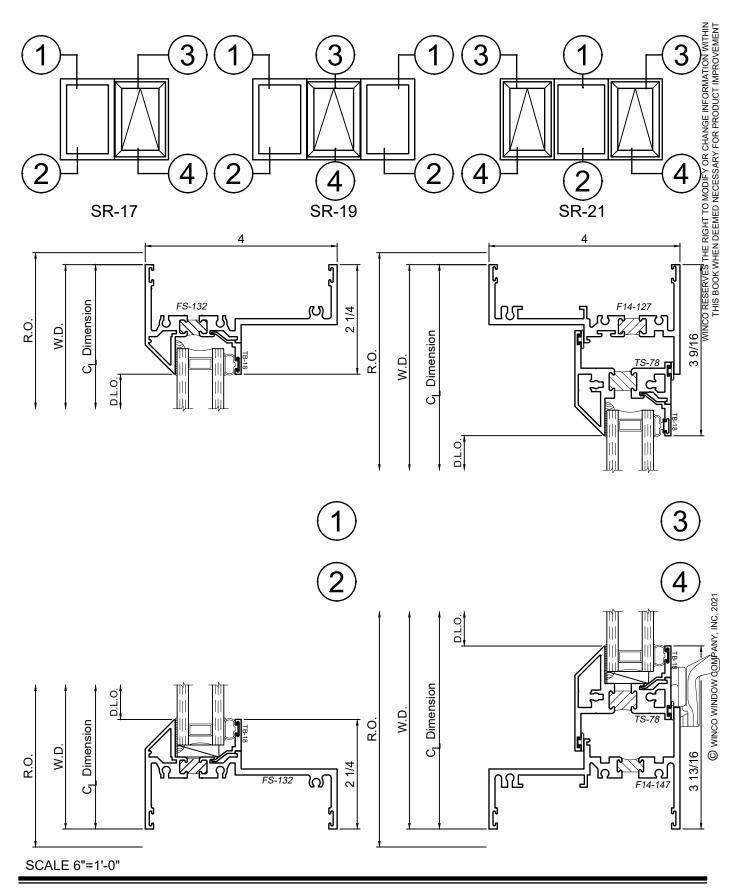
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-17,19 & 21]



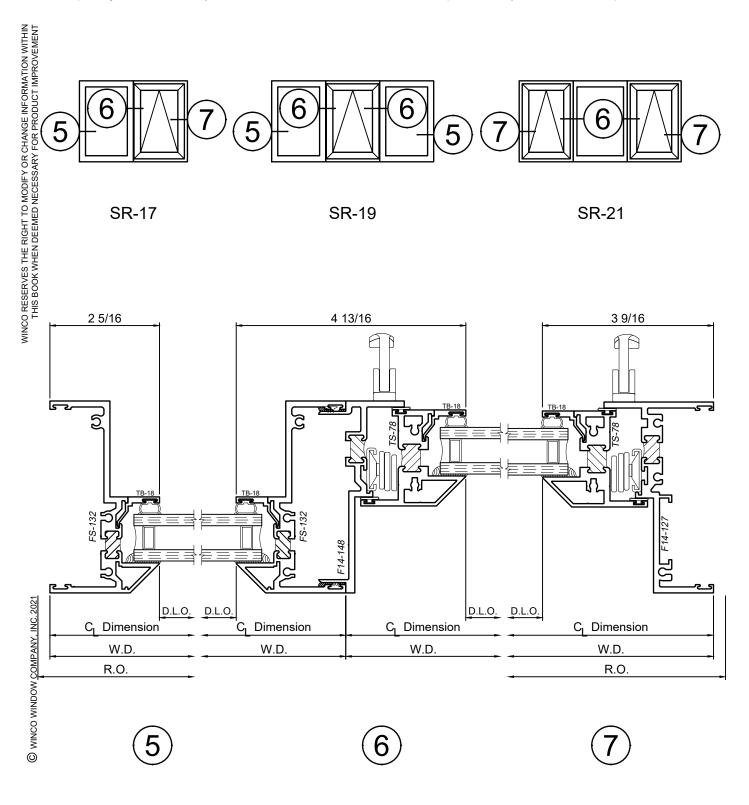
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-17,19 & 21]



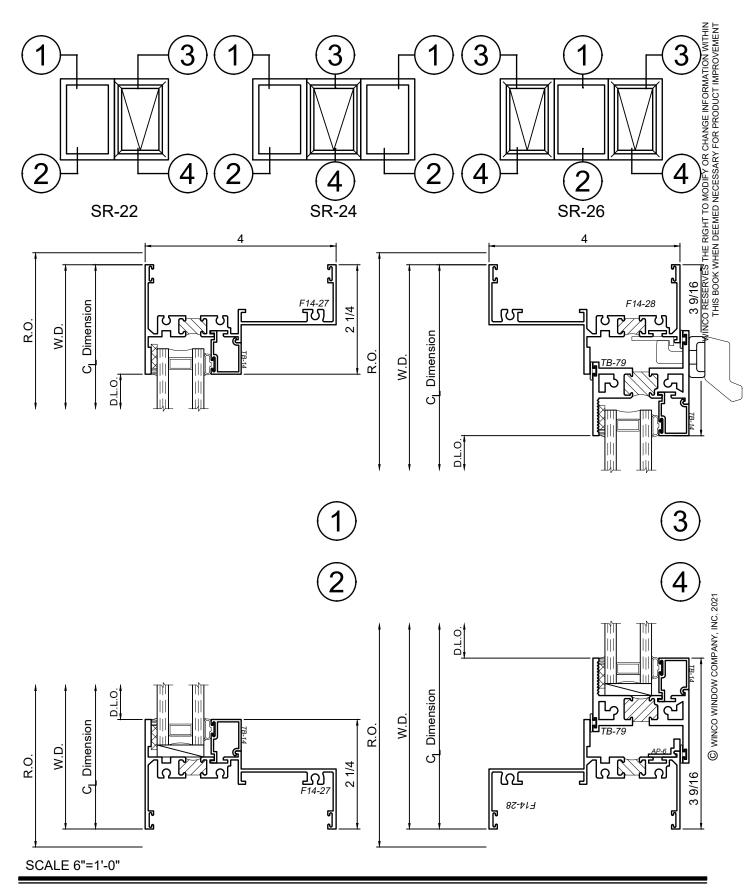
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4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-22,24 & 26]



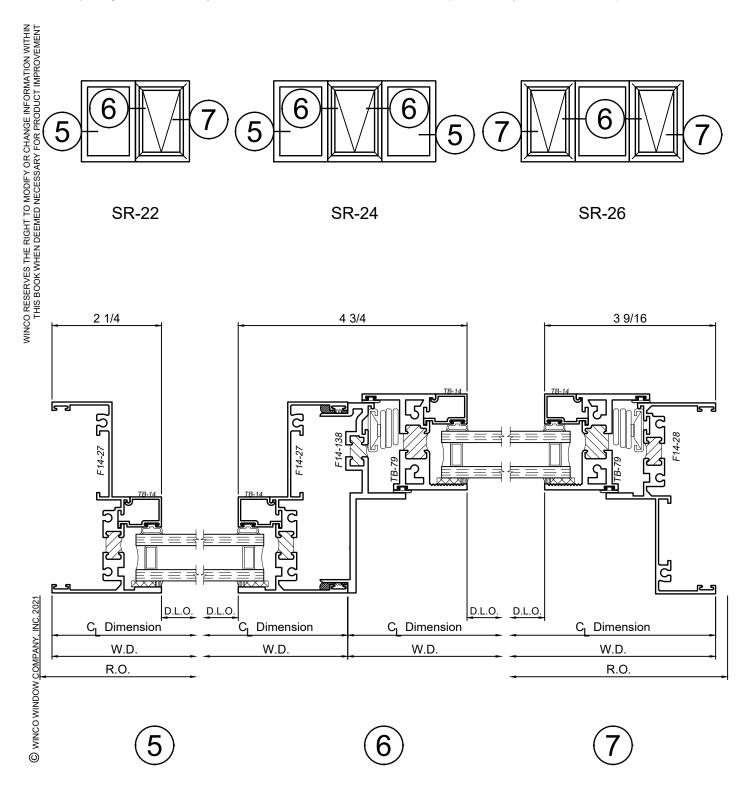
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4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-22,24 & 26]



Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

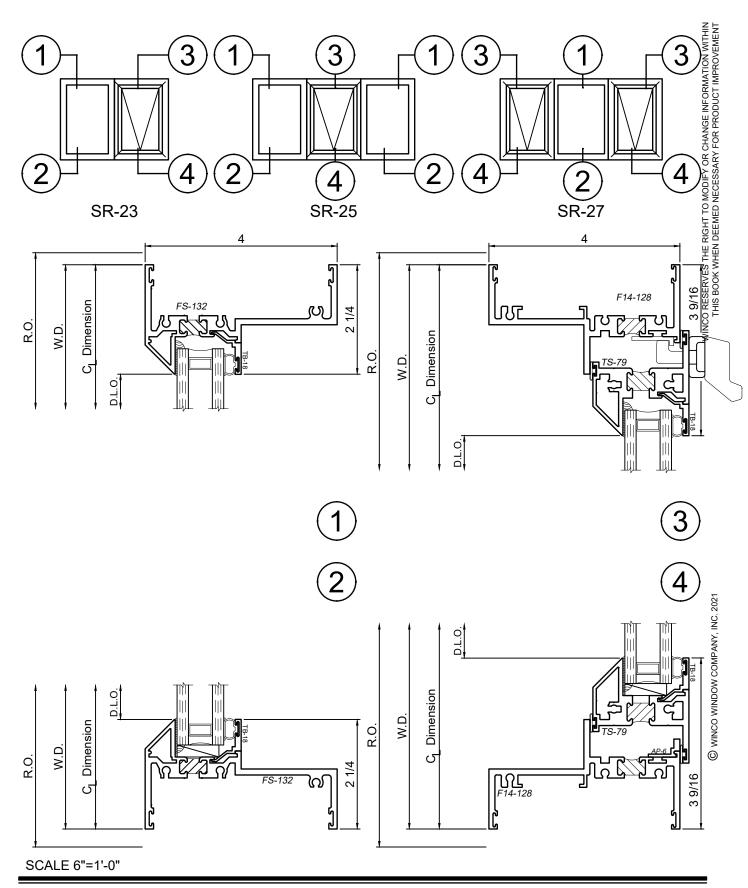


SCALE 6"=1'-0"

4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Head & Sill Details [SR-23,25 & 27]



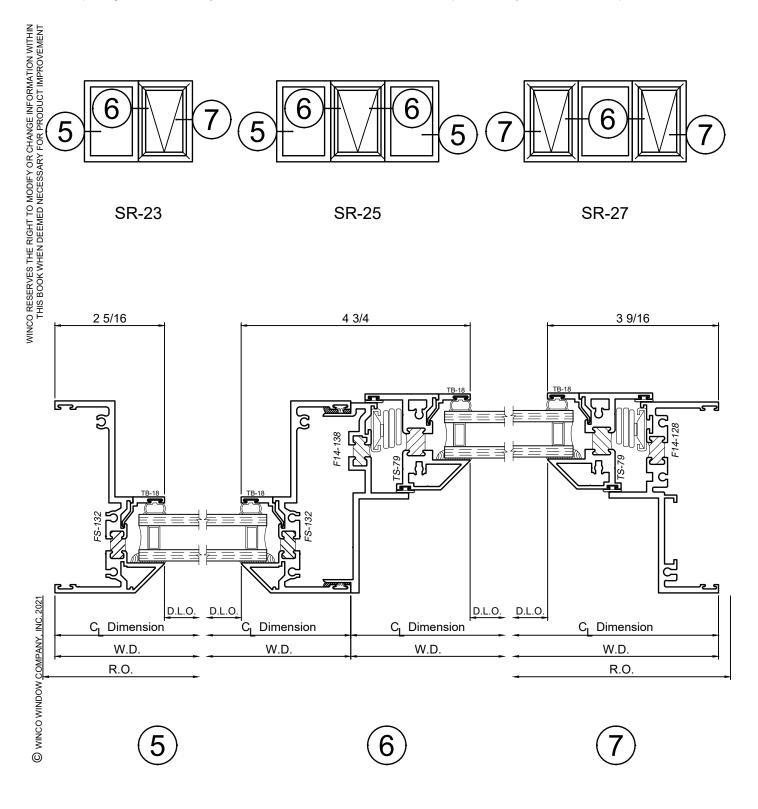
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Simulated Slider Jamb Details [SR-23,25 & 27



Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



SCALE 6"=1'-0"



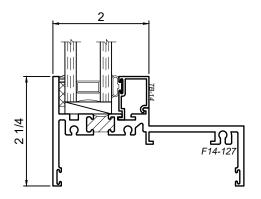
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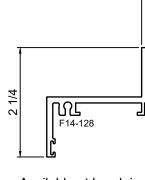


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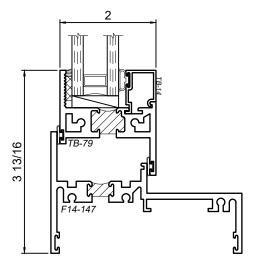
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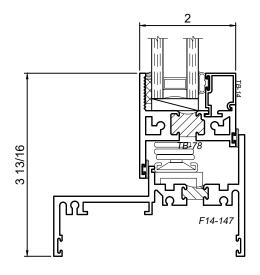
Available at head, jamb, and sill



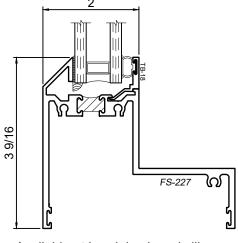
Available at head, jamb, and sill



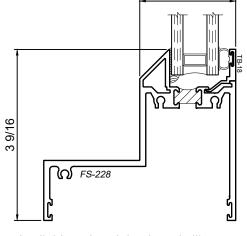
Available at sill



Available at sill



Available at head, jamb and sill Fixed Lite Only



Available at head, jamb and sill Fixed Lite Only

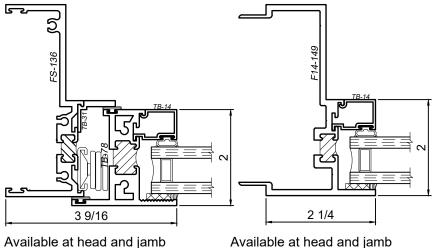
SCALE 6"=1'-0"

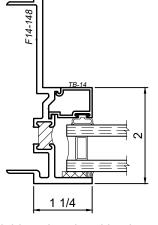
4" Thermal Hung Replica and Slider Replica Windows Product Details - Frame Options



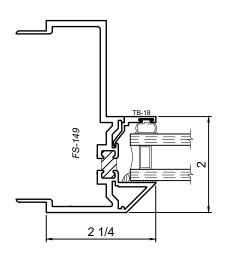
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Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

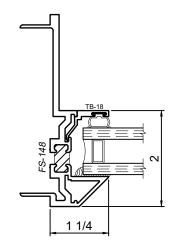




Available at head and jamb



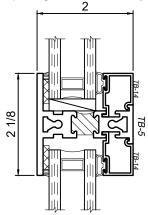
Available at head and jamb



Available at head and jamb

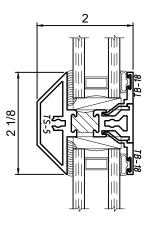


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

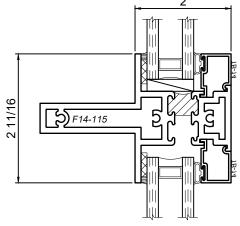


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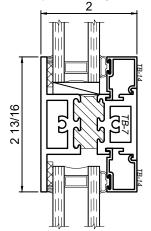
Standard 2 Inch T - Rail (only compatible w/ F14-xx frame, Fixed or PI configuration)



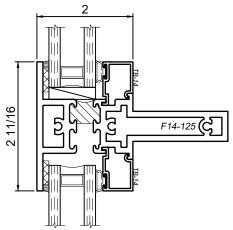
Standard 2 Inch T - Rail (only compatible w/ F14-xx frame, Fixed configuration)



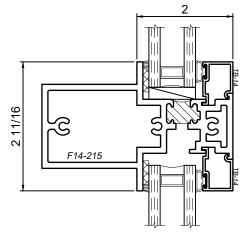
Standard 4 Inch T - Rail for Bottom Unit (only compatible w/ F14-28 or F14-128 frame, Fixed or PI configuration)



Heavy Duty 2 Inch T - Rail (only compatible w/ F14-xx frame, Fixed or PI configuration)



Standard 4 Inch T - Rail for Upper Unit (only compatible w/ F14-27 or F14-127 frame, Fixed or PI configuration)



Heavy 4 Inch T - Rail for Bottom Unit (only compatible w/ F14-28 or F14-128 frame Fixed or PI configuration)

SCALE 6"=1'-0"



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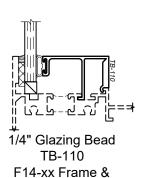
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4" Thermal Hung Replica and Slider Replica Windows Product Details - Glazing Options

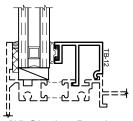


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

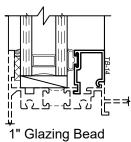
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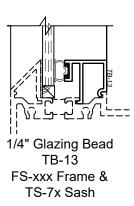
TB-7x Sash

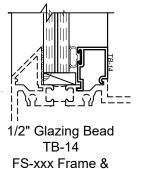


5/8" Glazing Bead **TB-12** F14-xx Frame & TB-7x Sash



TB-14 F14-xx Frame & TB-7x Sash

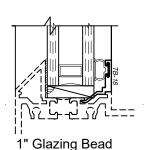




TS-7x Sash

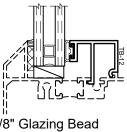


TS-7x Sash

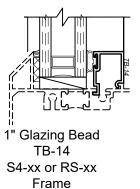


TB-18 FS-xxx Frame & TS-7x Sash





5/8" Glazing Bead TB-12 S4-xx or RS-xx Frame



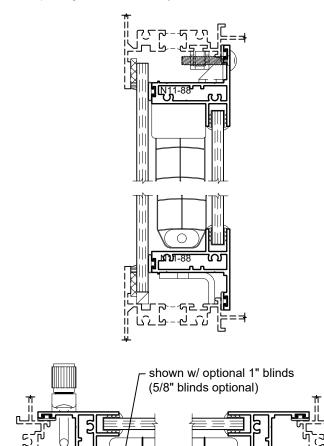
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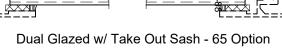
Frame

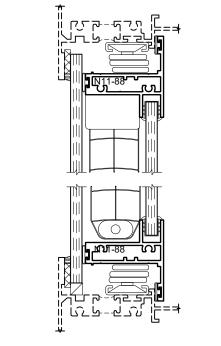
4" Thermal Hung Replica and Slider Replica Windows Product Details - Dual Glazed w/ Interior Sash -1450 Configuration

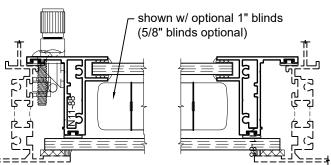


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



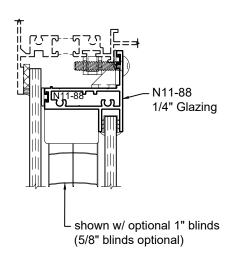






Dual Glazed w/ Hinged Sash - 75 Option

Dual Glazed Sash Options



S4-xx [Grand Park Center] is incompatible with Blind Access Sash design.

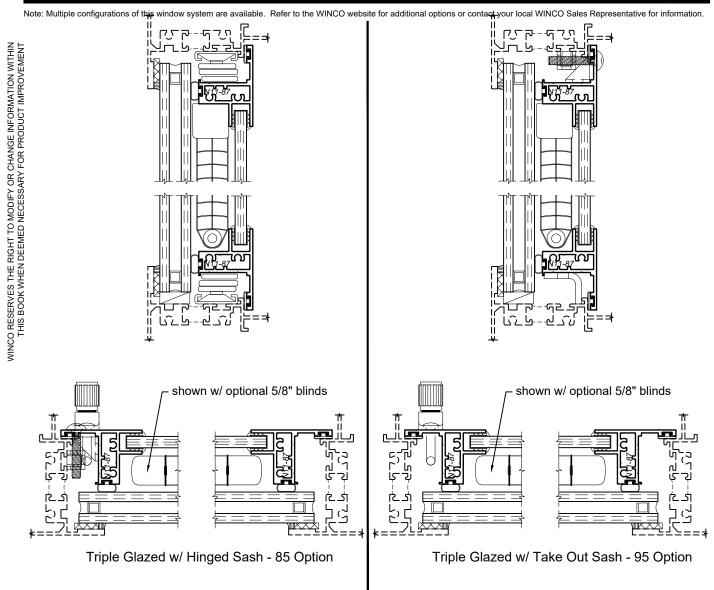
The options shown on this page only apply to F14-xx and RS-xx based window configurations.

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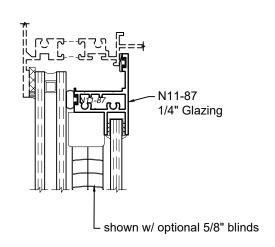
SCALE 6"=1'-0"

4" Thermal Hung Replica and Slider Replica Windows Product Details - Tripple Glazed w/ Interior Sash -1450 Configuration





Triple Glazed Sash Options



S4-xx [Grand Park Center] is incompatible with Blind Access Sash design.

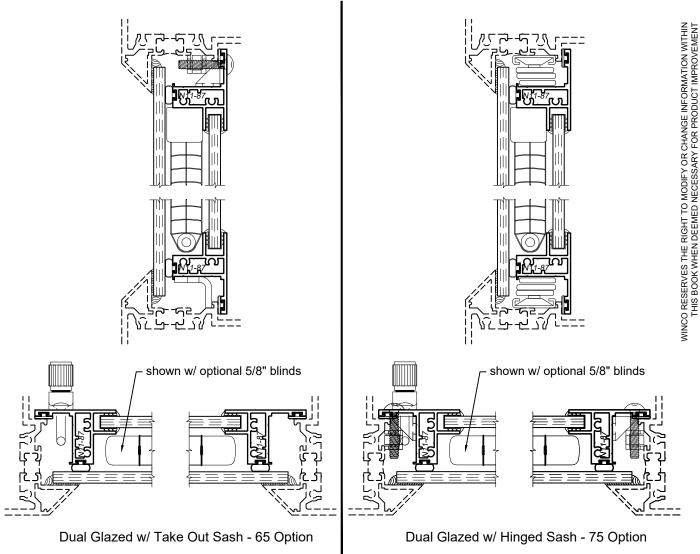
The options shown on this page only apply to F14-xx and RS-xx based window configurations.

SCALE 6"=1'-0"

4" Thermal Hung Replica and Slider Replica Windows Product Details - Dual Glazed w/ Interior Sash -1450S Configuration



Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



S4-xx [Grand Park Center] is incompatible with Blind Access Sash design.
The options shown on this page only apply to FS-xx based

window configurations.

4" Thermal Hung Replica and Slider Replica Windows Product Details - Grid Options for Putty Glazed Configurations



Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information. Profile Grid Muntins are only available for sloped (putty) glazed frame & sash configurations.

D.L.O. D.L.O. D.L.O. 13/16 13/16 13/16 D.L.O. DL 1/4 1/4 1/4 D.L.O. D.L.O., D.L.O. D.L.O. D.L.O. D.L.O. 3/4 3/4 3/4 D.L.O. D.L.O. D.L.O.

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4" Thermal Hung Replica and Slider Replica Windows Product Details - Screen Options - PO - Awning [Flat Glazed]



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

Note: Dashed lines on screen elevations depict operable sash type. All screen frames are fixed. F14-27 1 1/4 "B" Optional D8-90 Muntin Bar Section "A" - "A' Winco reserves the right to add the D8-90 muntin bar to any aluminum mesh screen for wicket support if the vent becomes too wide. All Fiberglass screen mesh will receive the support rail regardless of width. Top hinged Wicket (1) per cam lock W #8 X 1 5/8" Fastener H5000-29 Screen Clip (2) per side Z Section "B" - "B" SCALE 6"=1'-0"

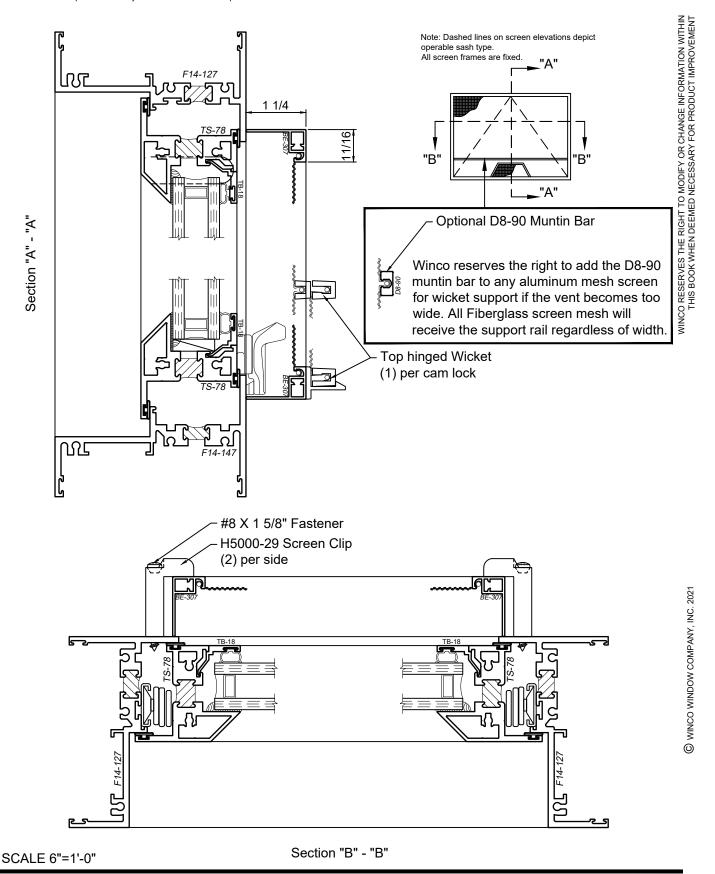
COC

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4" Thermal Hung Replica and Slider Replica Windows Product Details - Screen Options - PO - Awning [Putty Glazed]



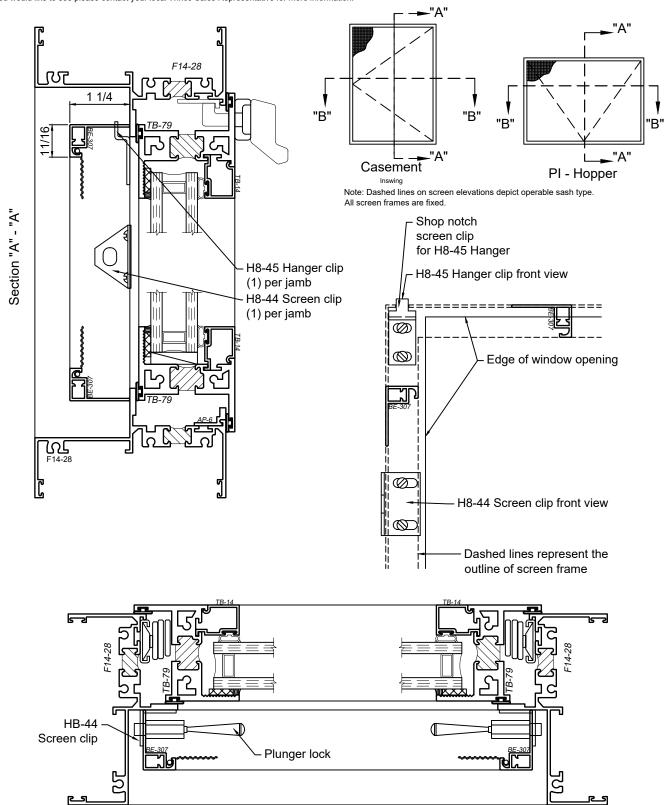
Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.



4" Thermal Hung Replica and Slider Replica Windows Product Details - Screen Options - PI Hopper [Flat Glazed]



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.



Section "B" - "B"

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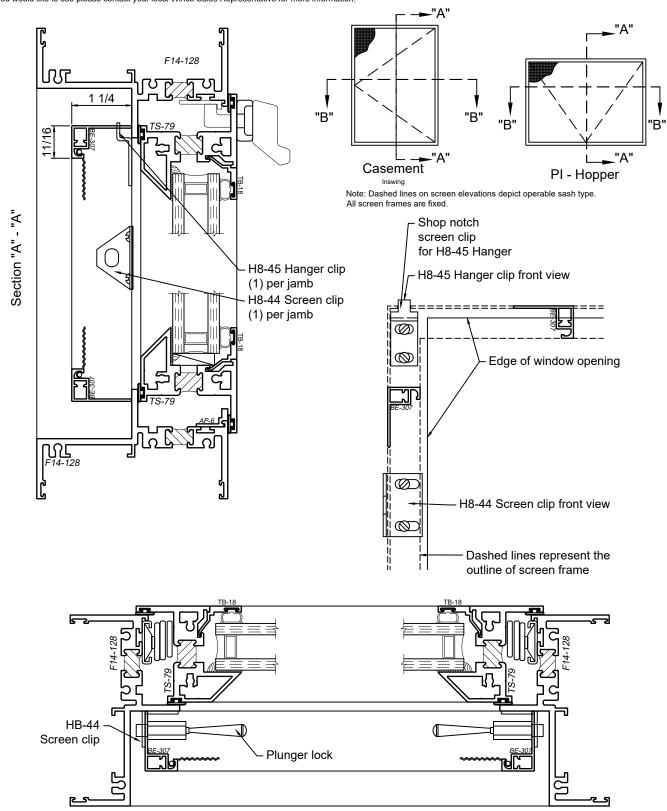
4" Thermal Hung Replica and Slider Replica Windows Product Details - Screen Options - PI Hopper [Putty Glazed]



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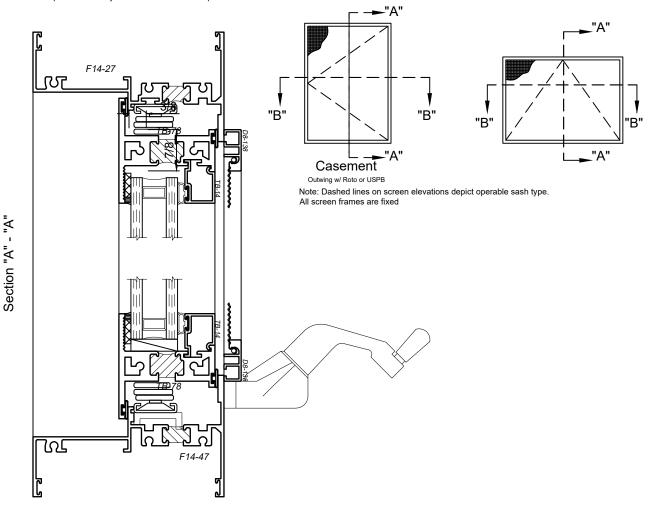
Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

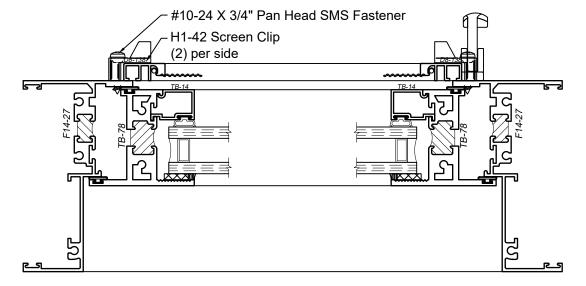


Section "B" - "B"



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.





Section "B" - "B"

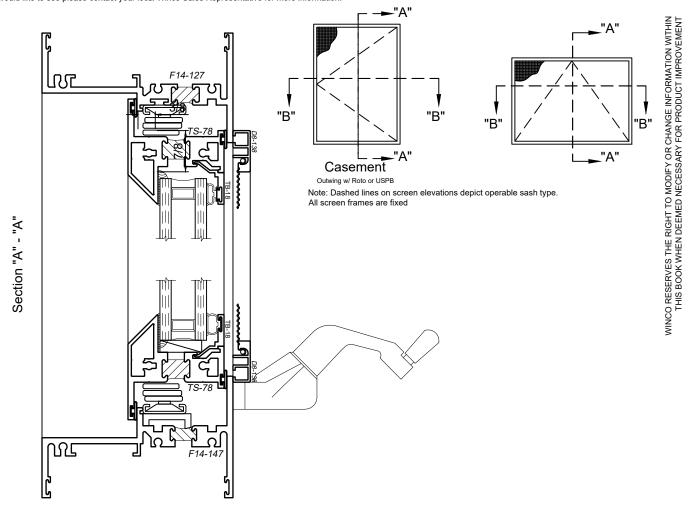
SCALE 6"=1'-0"

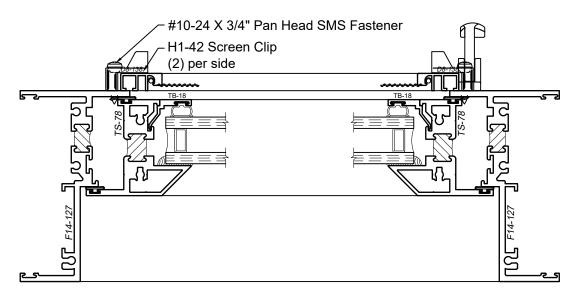
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Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

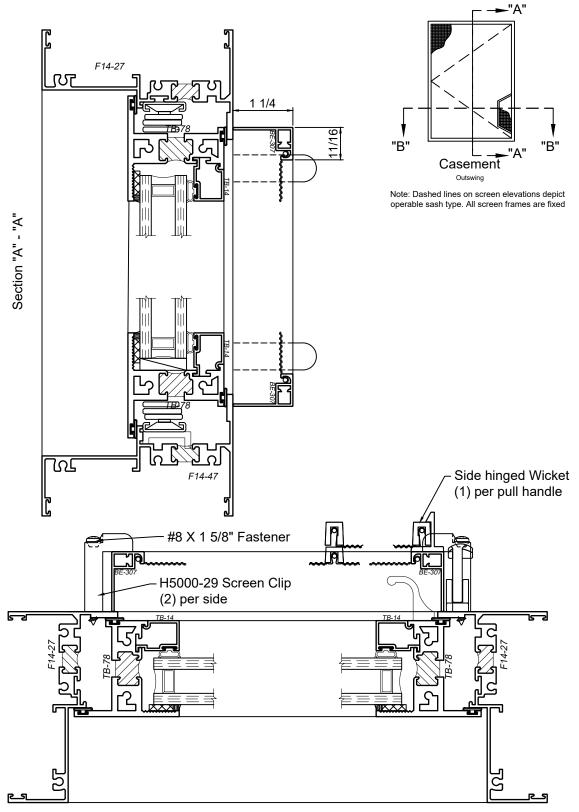




Section "B" - "B"



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.



Section "B" - "B"

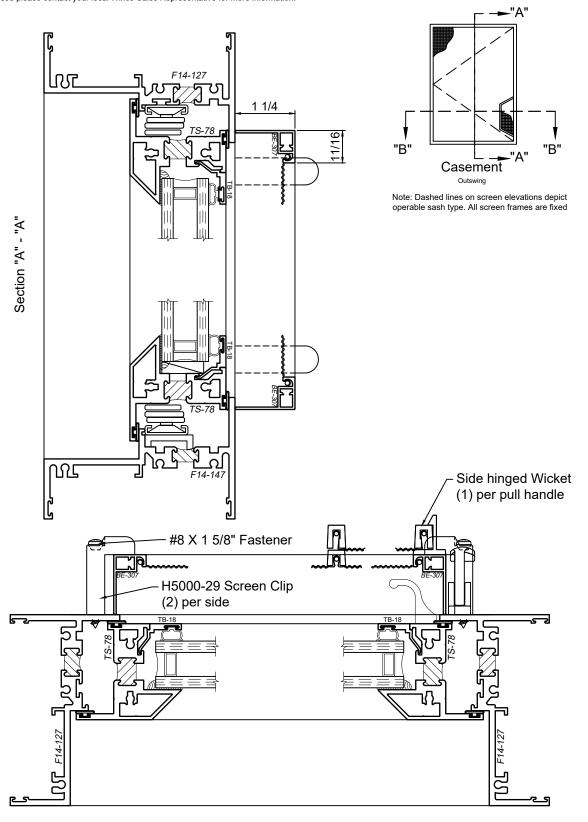
4" Thermal Hung Replica and Slider Replica Windows Product Details - Screen Options - Outswing Casement [Putty Glazed]



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Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

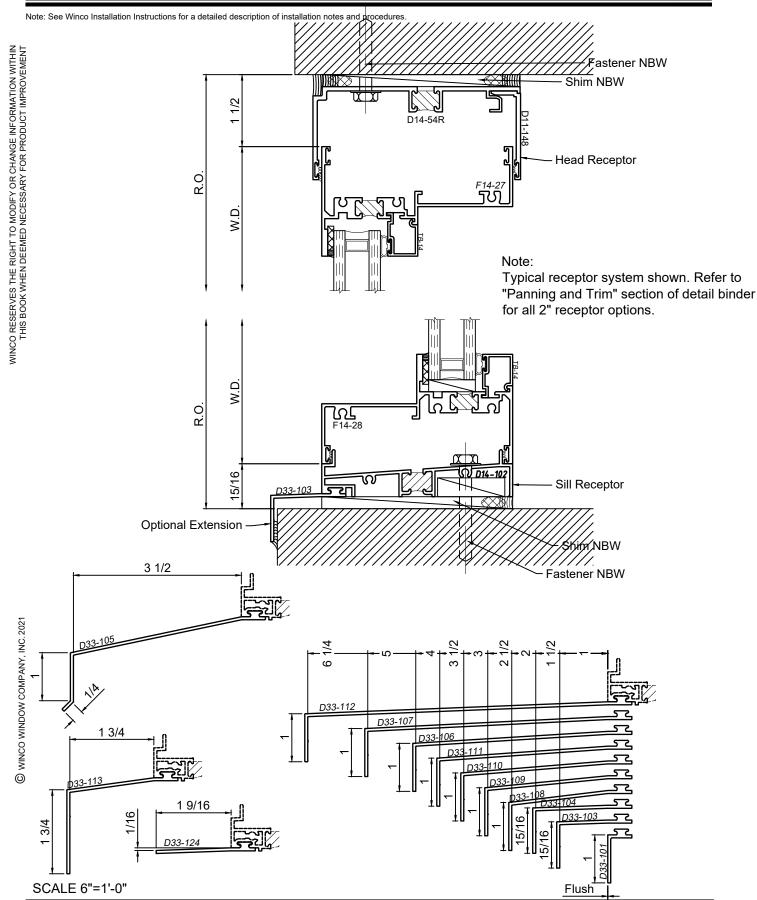


Section "B" - "B"

SCALE 6"=1'-0"

4" Thermal Hung Replica and Slider Replica Windows Product Details - Trim - Receptor Installation

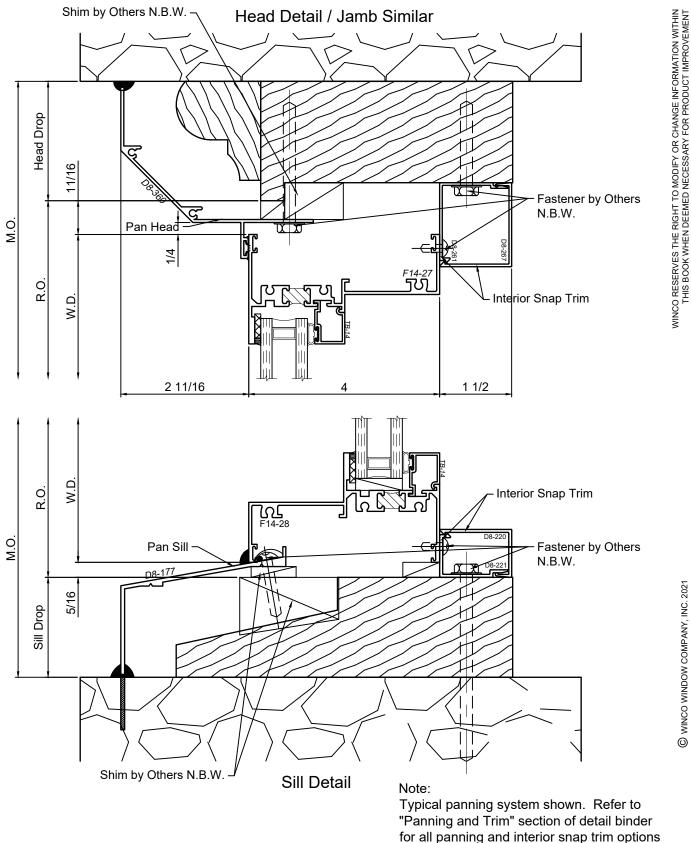




4" Thermal Hung Replica and Slider Replica Windows Product Details - Trim - Panning Installation

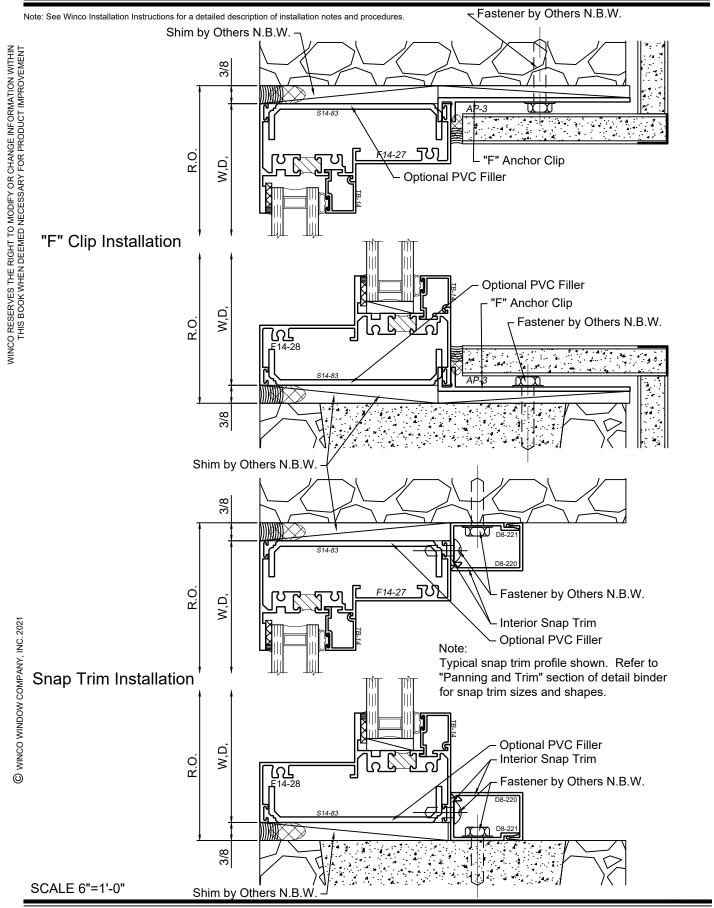


Note: See Winco Installation Instructions for a detailed description of installation notes and procedures



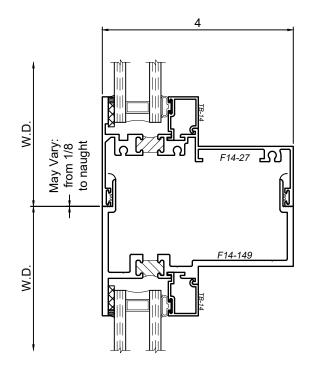
4" Thermal Hung Replica and Slider Replica Windows Product Details - Trim - F-Anchor and Snap Trim Installation

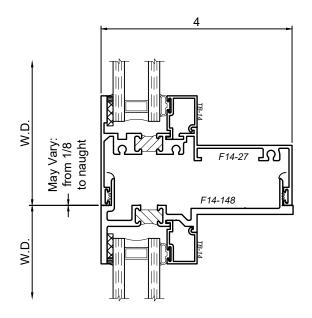






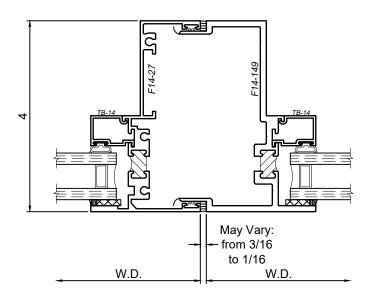
Hung Replicas can only be horizontally stacked

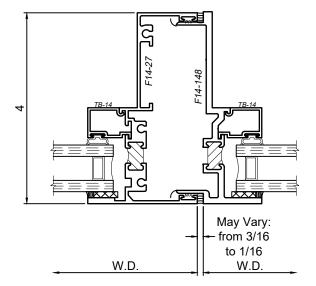




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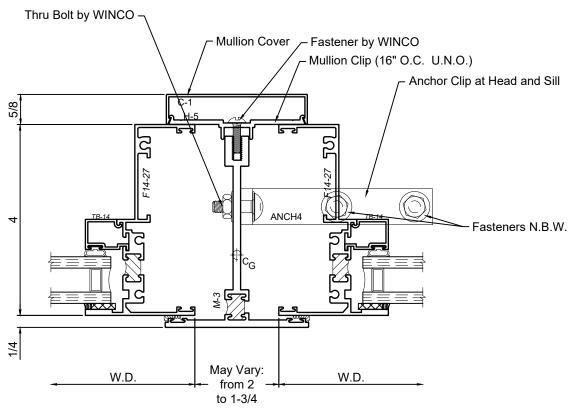
Slider Replicas can only be side stacked



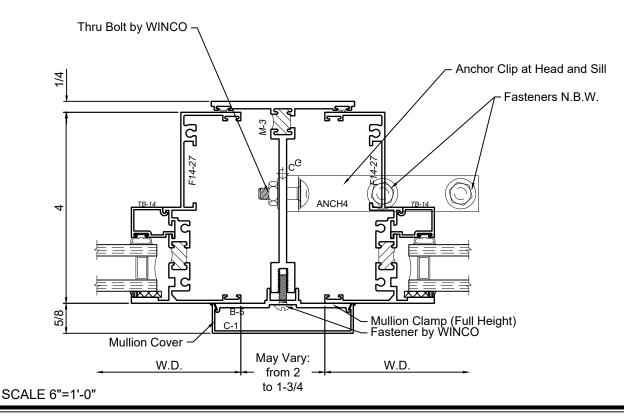




M-3 Mullion set from Building Interior



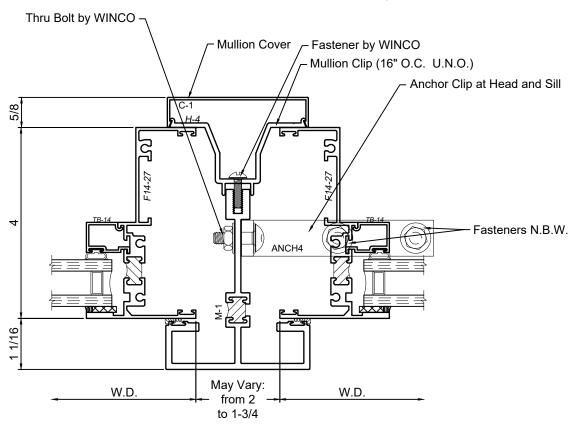
M-3 Mullion set from Building Exterior



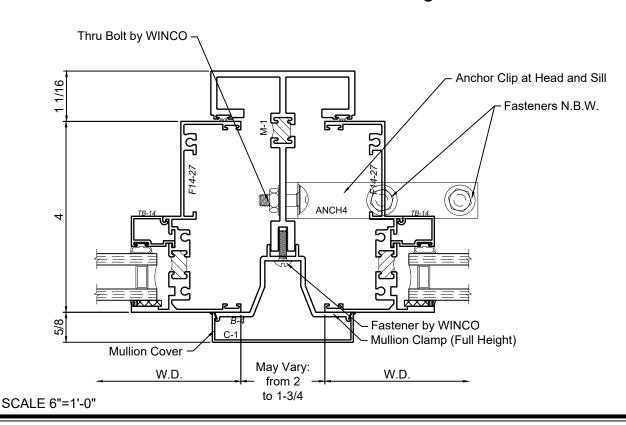


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M-1 Mullion set from Building Interior

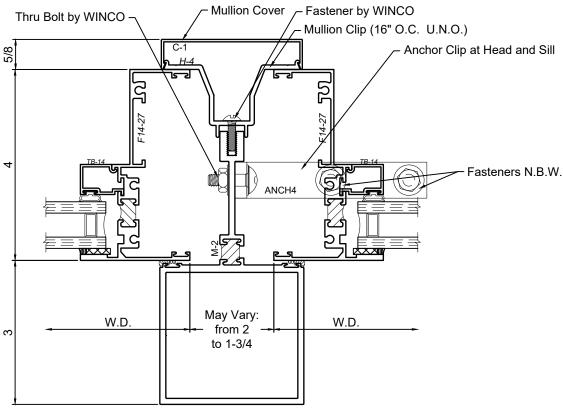


M-1 Mullion set from Building Exterior

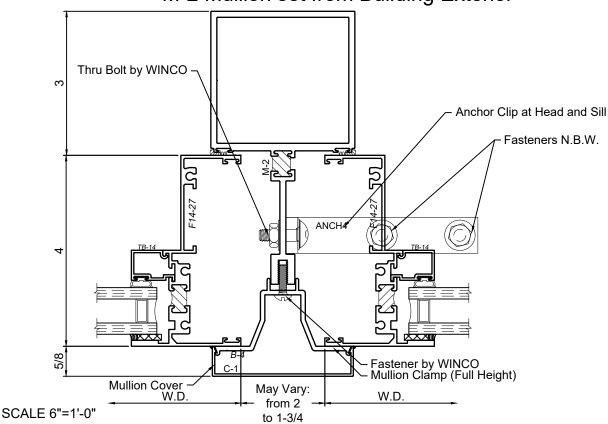




M-2 Mullion set from Building Interior

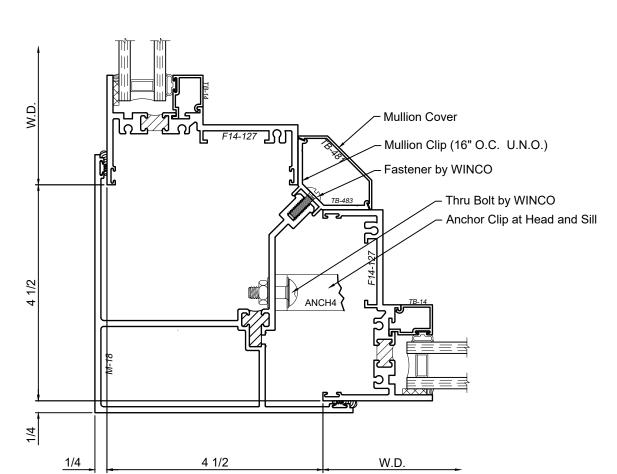


M-2 Mullion set from Building Exterior





M-18 90° Corner Mullion

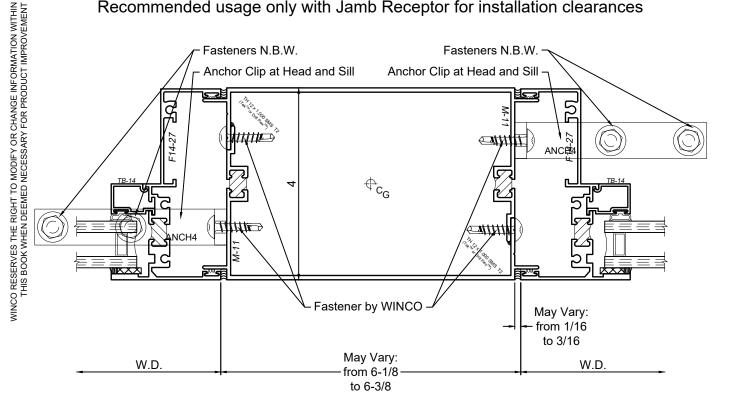


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M-11 Mullion

Recommended usage only with Jamb Receptor for installation clearances





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