

3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Information



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PERFORMANCE

The Series 3600 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

Fixed			Single Slider		
AAMA Rating	AW-80		AAMA Rating	AW-50	
Air Infiltration	0.0 CFM/ft ²		Air Infiltration	0.24 CFM/ft ²	
Water	Over 12 psf		Water	Over 10 psf	
Structural	120 psf		Structural	75 psf	
CRF (AAMA 1503)	No Test		CRF (AAMA 1503)	No Test	
Center of Glass U-Value	Window U-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	47" x 59" ²	99" x 79" ¹
0.20	0.34 ⁴	0.29 ⁴	0.20	0.44	0.34
0.24	0.37 ⁴	0.33 ⁴	0.24	0.46	0.37
0.29	0.41 ⁴	0.37 ⁴	0.29	0.50	0.41
0.34	0.45 ⁴	0.41 ⁴	0.34	0.53	0.45
0.47	0.55 ⁴	0.52 ⁴	0.47	0.62	0.56

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
- ⁴ Estimated performance

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CONSTRUCTION

MATERIAL - The Series 3600 window is a 3-1/2" deep frame depth with a nominal wall thickness of 0.062 inch at the head and jamb members. The sill extrusion has a nominal wall thickness of 0.080 inch. The operable sash member is 1-5/8 inch deep with a nominal wall thickness of 0.062 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 sash have a heavy fin seal wool pile weather strip on the exterior for superior water and air performance. On the interior side of the sash, a rigid vinyl weatherstripping is used for ease of operation.

FABRICATION - The main frame corners are coped and mechanically joined using two stainless steel spline screws per corner (fig 1). The sash utilizes hollow tube shaped extrusions for superior strength and rigidity. The sash corners are coped 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 sealer providing a water tight joinery.

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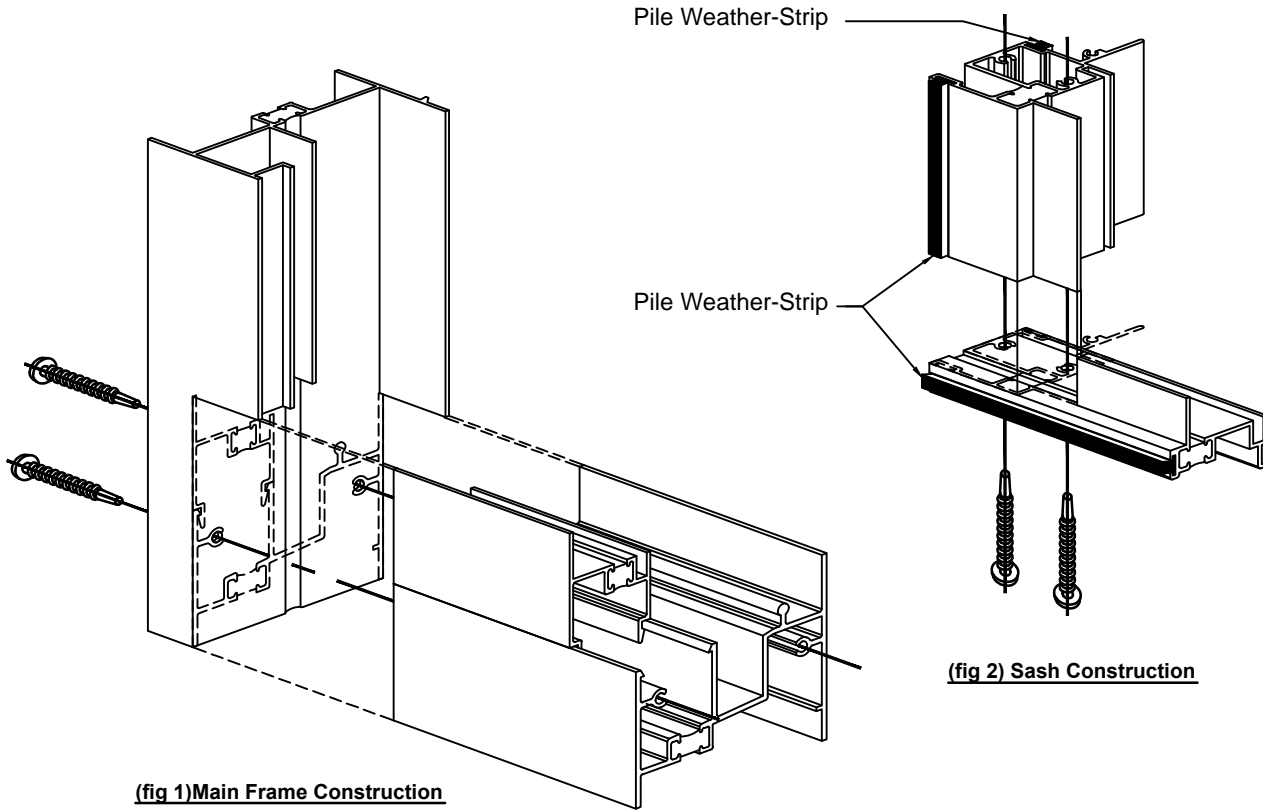
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3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Information



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(fig 1) Main Frame Construction

(fig 2) Sash Construction

GLAZING

The windows can be interior or exterior glazed with .050 thick extruded aluminum glazing beads accommodating thicknesses from 3/16" or 1/4" and 7/8" or 1".

Glazing Thickness	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"
Monolithic	-	X	X	-	-	-	-	-	-	-	-	-	-	-
Insulated	-	-	-	-	-	-	-	-	-	X	X	-	-	-
Dual Glazed	Exterior	-	-	-	-	-	-	-	-	-	-	-	-	-
	Interior	-	-	-	-	-	-	-	-	-	-	-	-	-
Triple Glazed	Exterior	-	-	-	-	-	-	-	-	-	-	-	-	-
	Interior	-	-	-	-	-	-	-	-	-	-	-	-	-

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.

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HARDWARE

All exposed sweep lock hardware and keepers are solid white bronze alloy with US25D brushed finish. All exposed springloaded snap lock hardware is manufactured from extruded aluminum matching the window frame finish.

Window Type	Spring Lock at Jamb	Spring Lock at Head	Spring Lock at Sill	Stainless Steel Wheel w/ SS Bearing	Nylon Wheel w/ Steel Bearing	Stainless Steel Track Cover	Sweep Lock	Access Control Sweep Lock	Class 5 Sash Balance (Ultralift)	Limit Stop (non removable, Extruded)	Limit Stop (Key- Release)			
Horizontal Slider	X	-	-	X	-	X	X	O	-	O	-			

X = Standard Hardware
O = Optional Hardware

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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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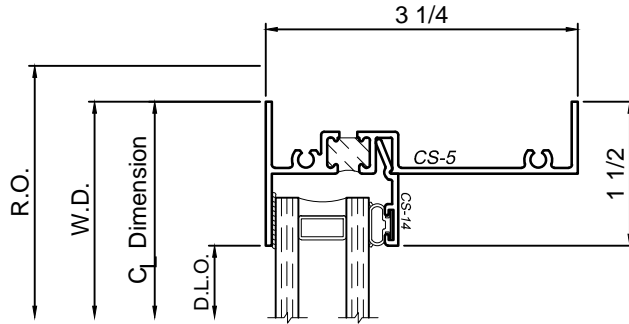
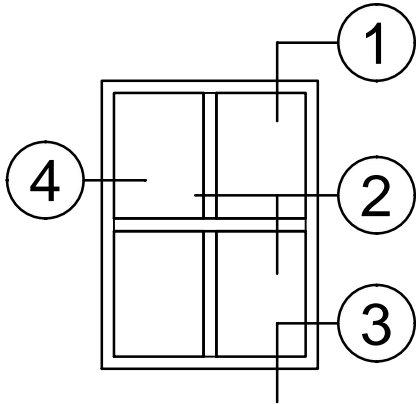
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Fixed - Picture Window

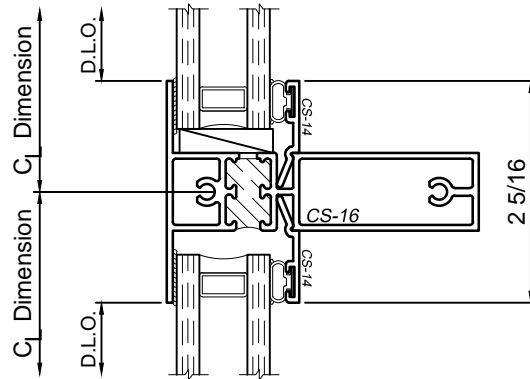


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

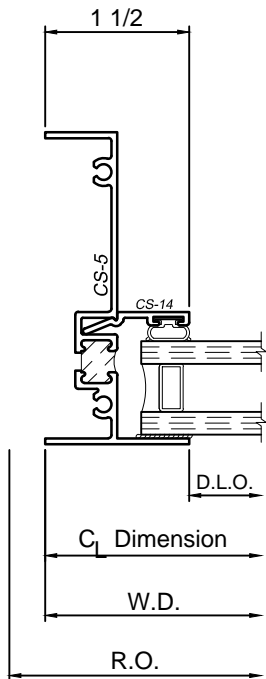
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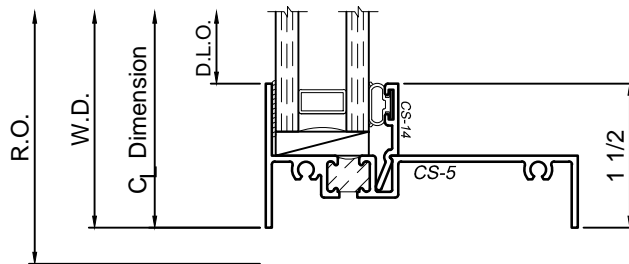
1



2



4



3

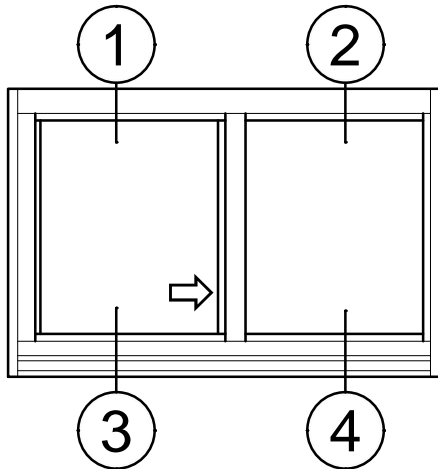
SCALE 6"=1'-0"

3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

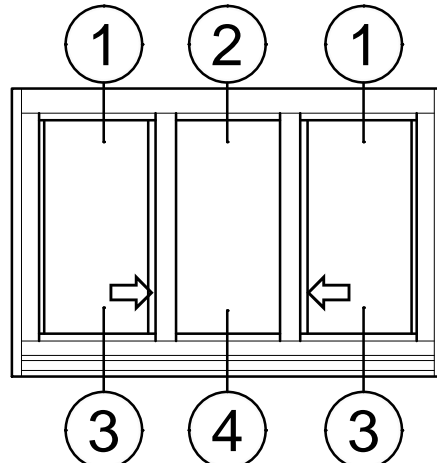
Product Details - Sliding Window Head and Sill Details



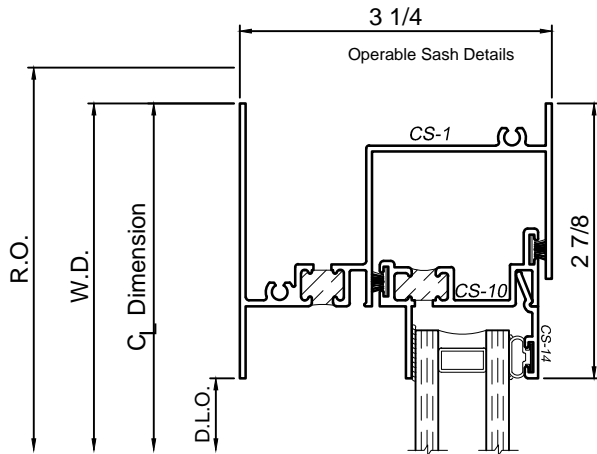
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



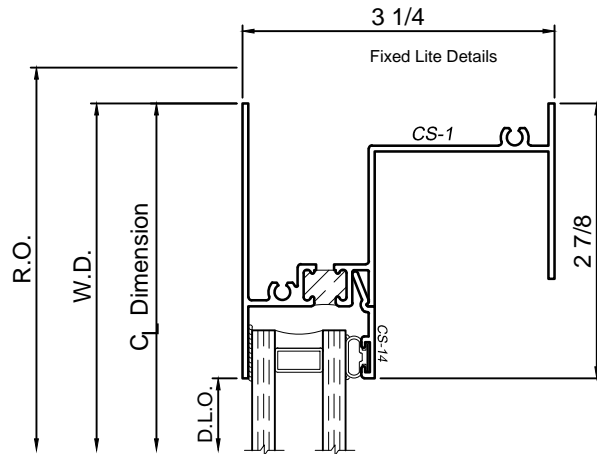
No Slider shown
oX Opposite Hand



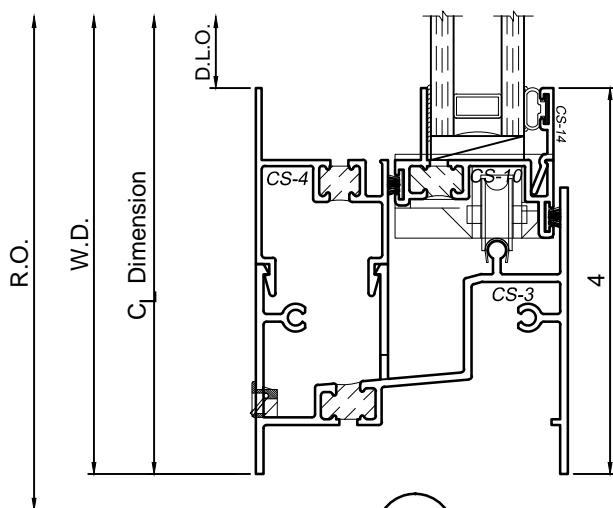
XoX Slider



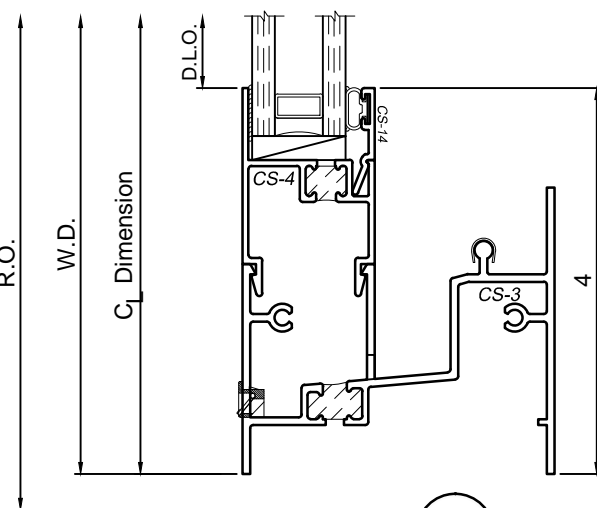
1



2



3



4

SCALE 6"=1'-0"

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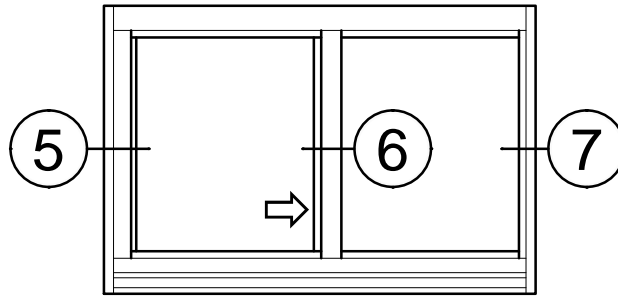
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Xo / oX Slider

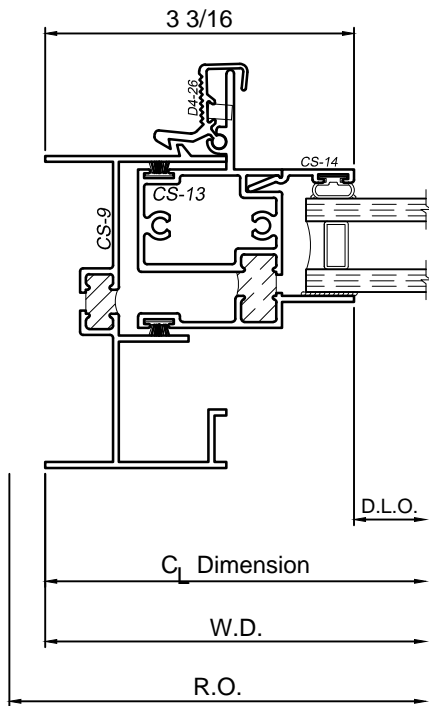


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

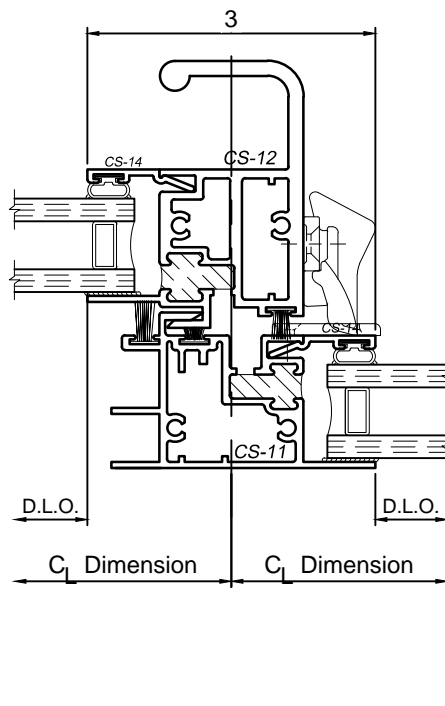
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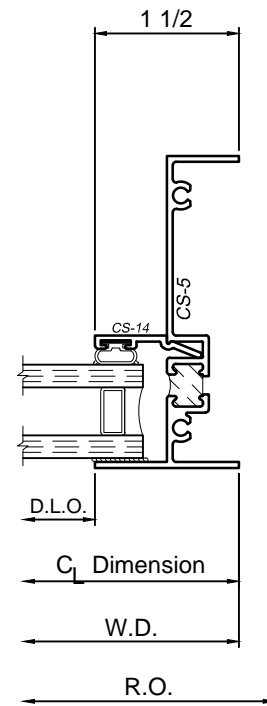
Xo Slider shown
oX Opposite Hand



5



6



7

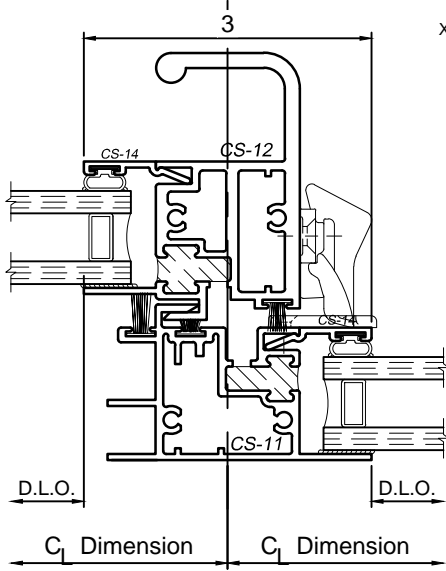
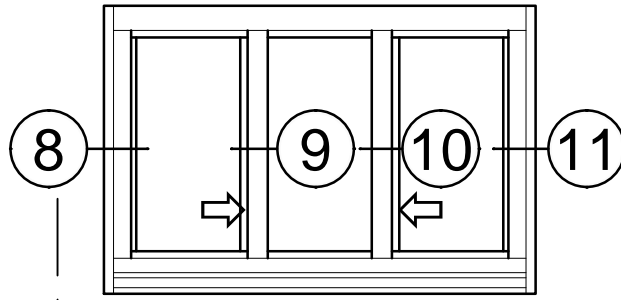
SCALE 6"=1'-0"

3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

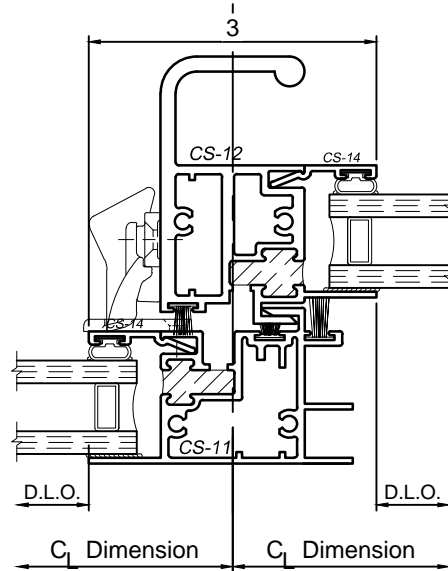
Product Details - Double Slider XoX Window



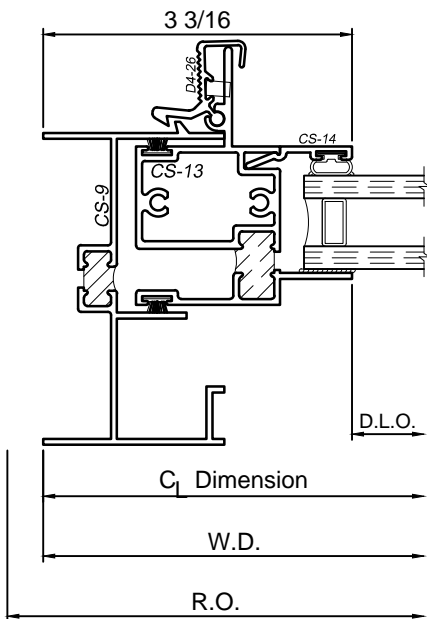
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.



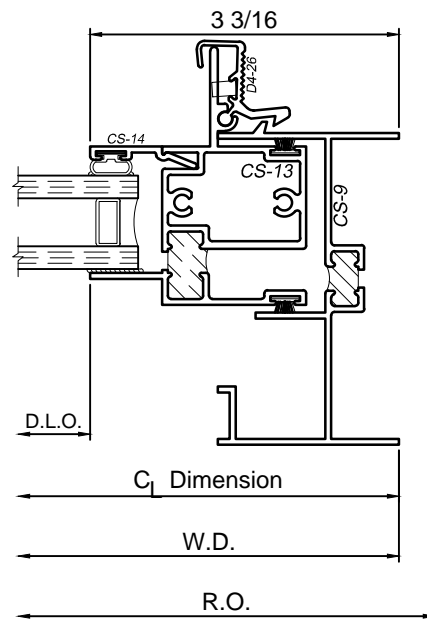
9



10



8



11

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SCALE 6"=1'-0"

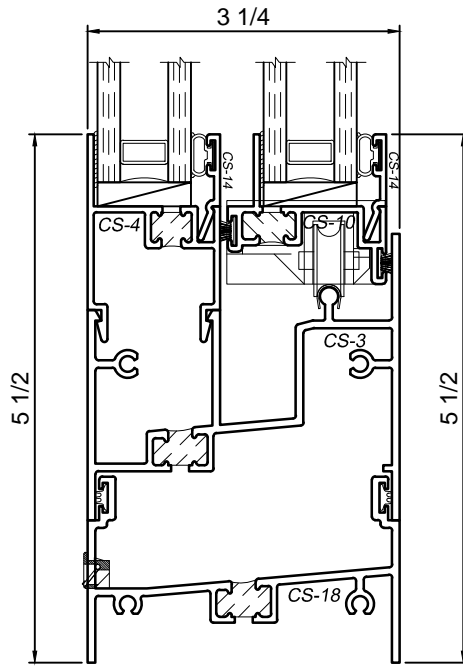
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Frame Options

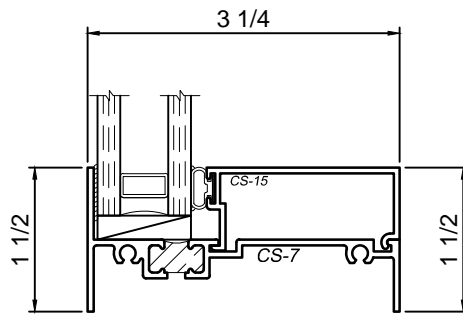


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Taller Sill for improved Water Resistance



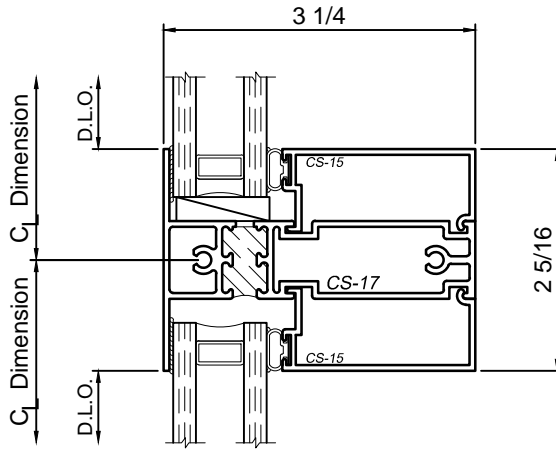
Full Depth Glazing Bead
(Fixed Units Only)

SCALE 6"=1'-0"

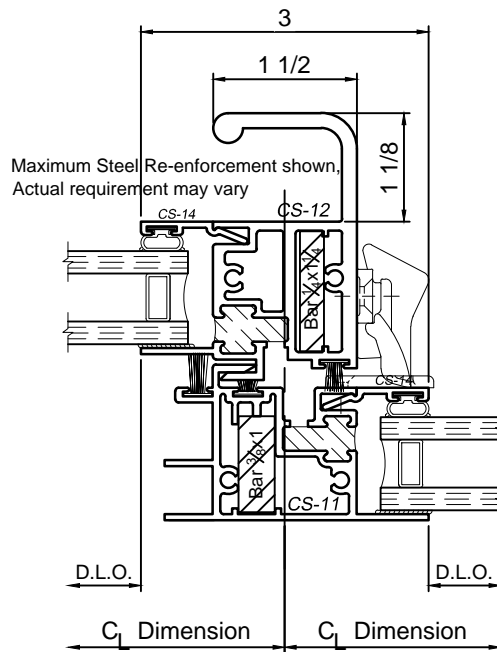
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows Product Details - Rail Options



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.



Full Depth Glazing Bead
(Fixed Units Only)



Heavy Sash Rail for higher Wind Loads

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SCALE 6"=1'-0"

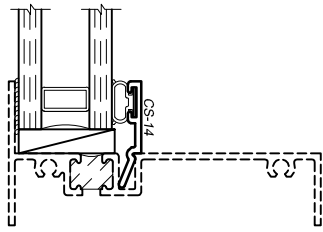
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Glazing Options

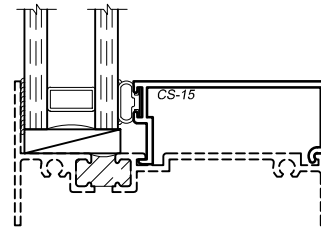


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

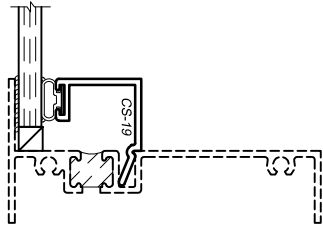
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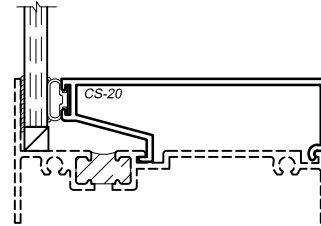
1" Glazing Bead
CS-14
(Fixed & Sliding Units)



1" Glazing Bead
CS-15
(Option at Fixed Units Only)



1/4" Glazing Bead
CS-19
(Fixed & Sliding Units)



1/4" Glazing Bead
CS-20
(Option at Fixed Units Only)

Note: Odd glass thicknesses may be possible by changing the gasket or the thickness of the glazing silicone. If desired glazing is not shown please contact your local Winco Sales Representative for additional information.

SCALE 6"=1'-0"



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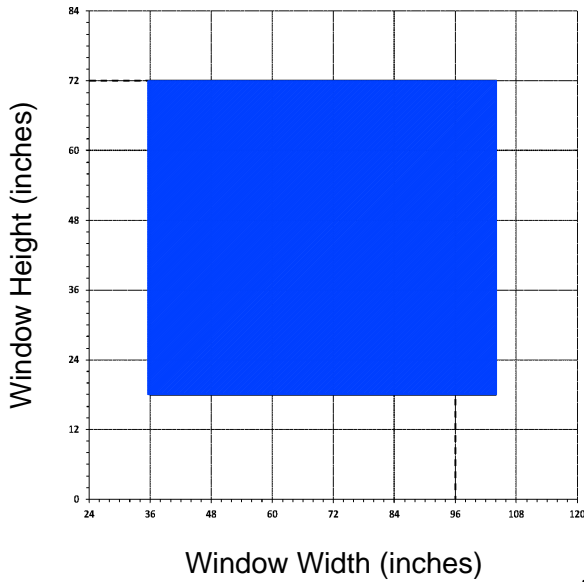
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3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows Projected Vent Size Capabilities Charts

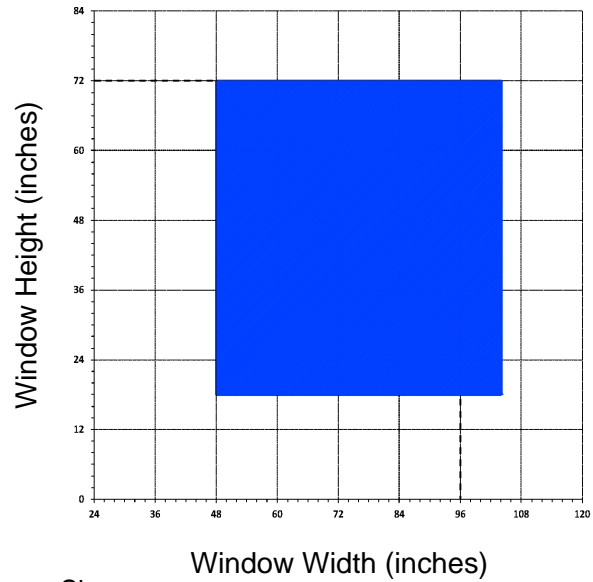


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Single Slider (2-Lite)

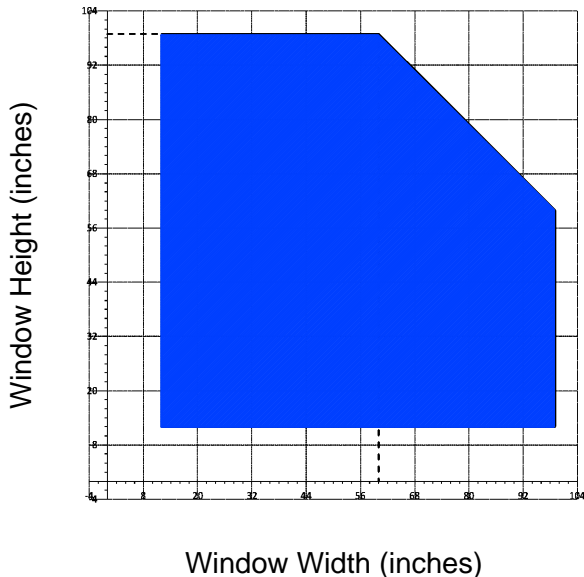


Single Slider (3-Lite)



----- AAMA Gateway Size

Fixed



- Dashed line represents the gateway size window as tested by AAMA.
- All vent sizes are based upon 1" Insulated glass consisting of 1/4" glass - 1/2" air - 1/4" glass.
- Any vent size outside of the AAMA Gateway tested size may have reduced performance.
- Chart assumes the window has been installed in a properly prepared opening by a qualified installer.
- Individual job criteria such as: other glazing materials, specified wind load, and specific operating hardware; may enhance or restrict the chart.
- Minimum vent size is 12' x 18' with standard water leg sill.
- The chart is a general guideline for projected vent sizing, anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

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3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Vertical Stack - CS-5 / CS-9

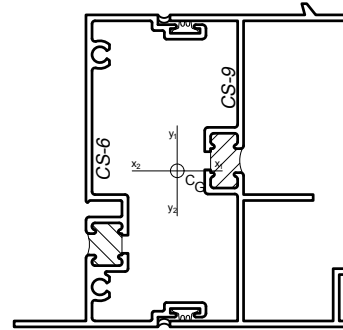


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

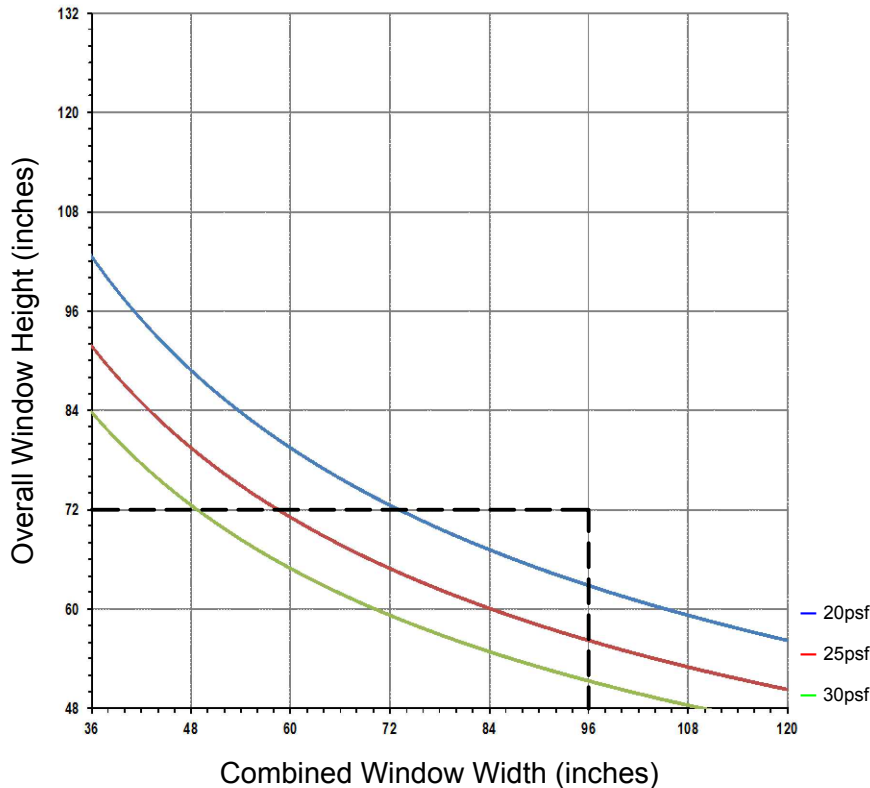
Combined Properties

	X-X	Y-Y
I	1.6765in ⁴	0.2192in ⁴
S	0.9170in ³	0.2180in ³

Maximum area = 40 ft²
 Maximum Total Unit Weight
 must not exceed 500 lbs.



Wind Load Chart



This chart can be used as a guideline for the preliminary structural evaluation of the mullion/stack shown. The chart is based on conservative engineering practices and the minimum result from either L/175 Deflection, 3/4" deflection, or 15 ksi outer fiber stress. The chart reflects the structural strength of 2 continuous window jambs running the full height of the opening. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft²) light of glass above.
- Any vent width exceeds 60".
- Window exceeds the maximum size shown.
- Window has multiple rails (>3).

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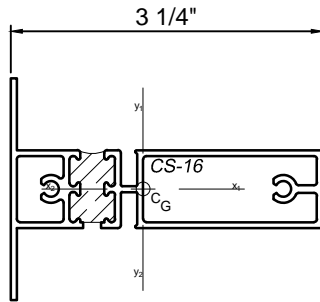
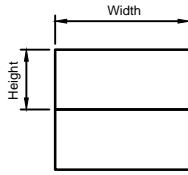
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - CS-16 Rail



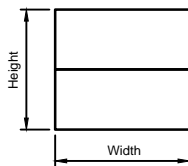
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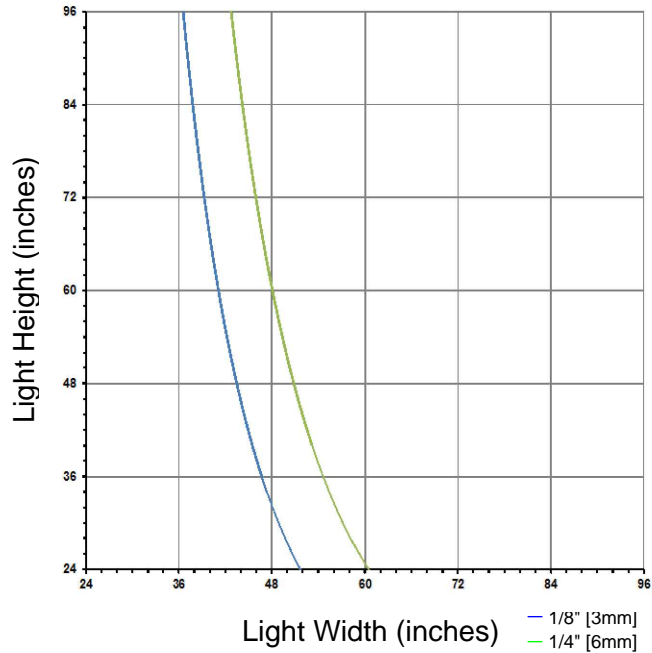


Section Properties

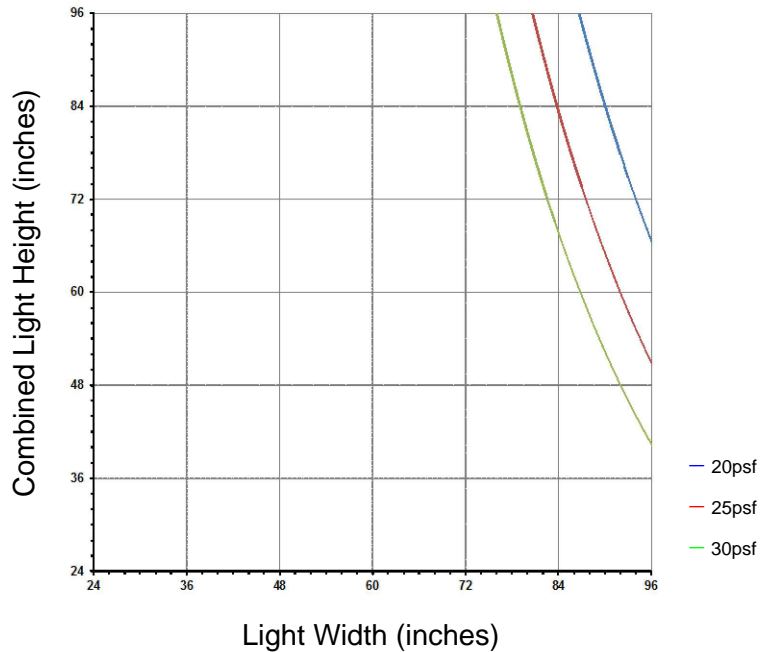
	X-X	Y-Y
I	0.9653 in ⁴	0.1211 in ⁴
S	0.5148 in ³	0.1046 in ³



Glass Dead Load Chart



Wind Load Chart



This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on 1/4" - 1/2" - 1/4" I.G. and 0.090" deflection at 1/4 and 1/8 point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, 3/4" deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft²) light of glass above.
- I.G. make-up varies from the default.
- I.G. has additional blocking.

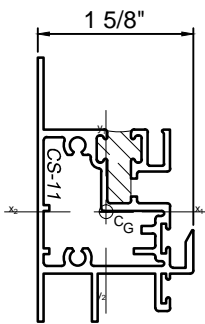
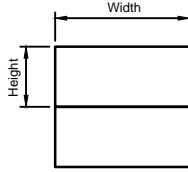
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3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - CS-11 Rail

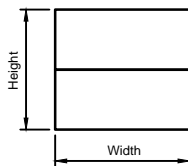


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

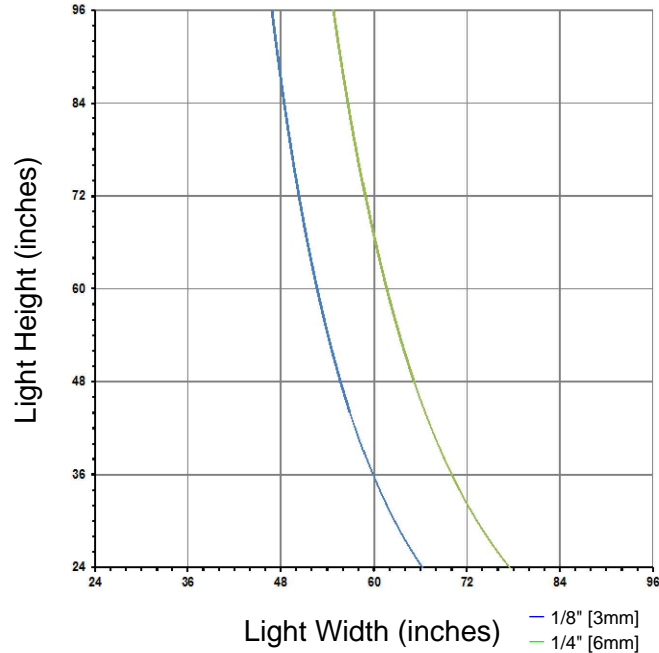


Section Properties

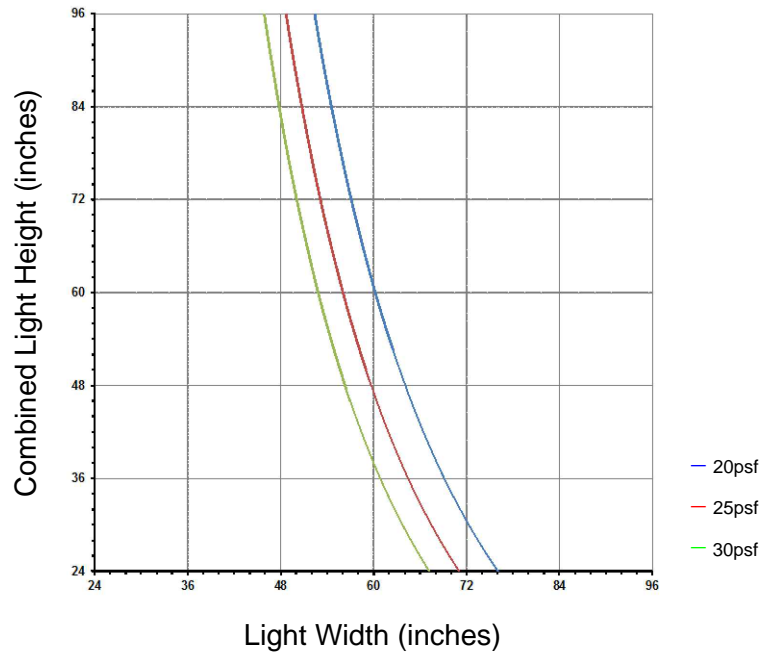
	X-X	Y-Y
I	0.3269 in ⁴	0.2047 in ⁴
S	0.2035 in ³	0.2253 in ³



Glass Dead Load Chart



Wind Load Chart



This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on 1/4" - 1/2" - 1/4" I.G. and 0.090" deflection at 1/4 and 1/8 point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, 3/4" deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

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- I.G. make-up varies from the default.
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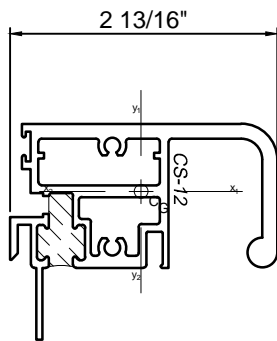
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - CS-12 Rail



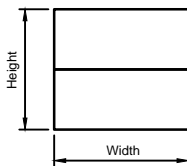
Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

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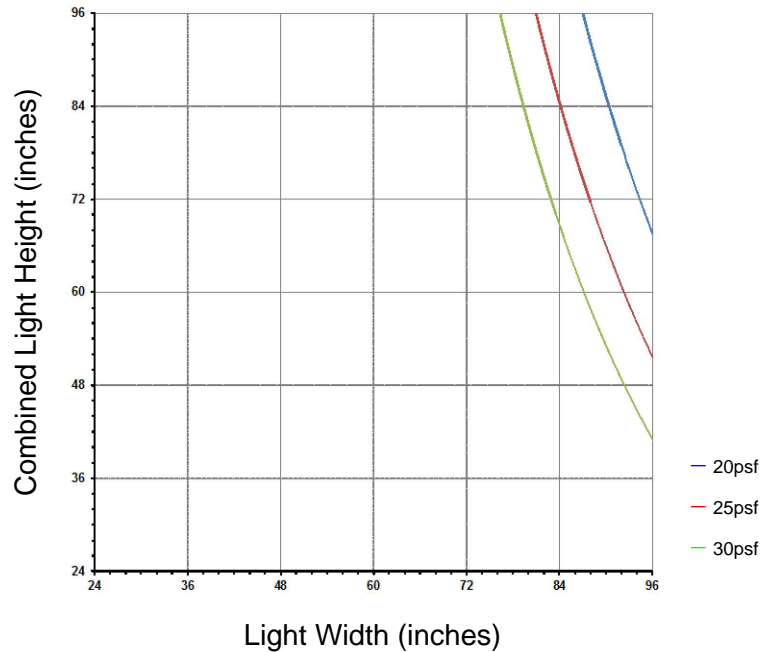


Section Properties

	X-X	Y-Y
I	0.3958 in ⁴	0.2564 in ⁴
S	0.9772 in ³	0.6882 in ³



Wind Load Chart



This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on 1/4" - 1/2" - 1/4" I.G. and 0.090" deflection at 1/4 and 1/8 point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, 3/4" deflection, or 15 ksi outer fiber stress. The charts reflect the structural strength of only the Rail. WINCO highly recommends consulting an engineer for any of the following circumstances:

- The window under consideration falls close too or on the design pressure line.
- Any rail exceeds 48" with a large (>16ft²) light of glass above.
- I.G. make-up varies from the default.
- I.G. has additional blocking.

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3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding 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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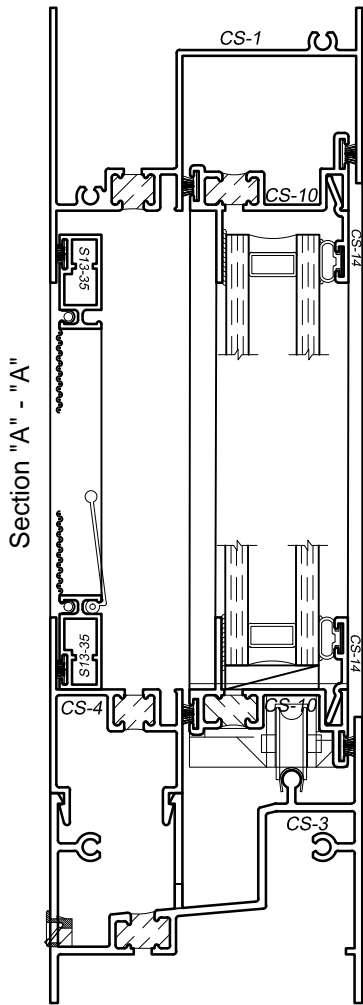
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Screen Options - Standard Fixed Screen

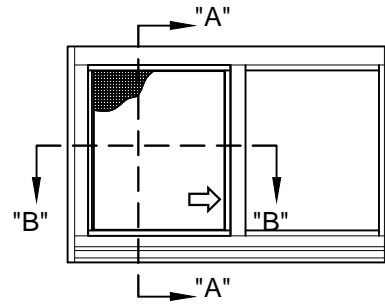


Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

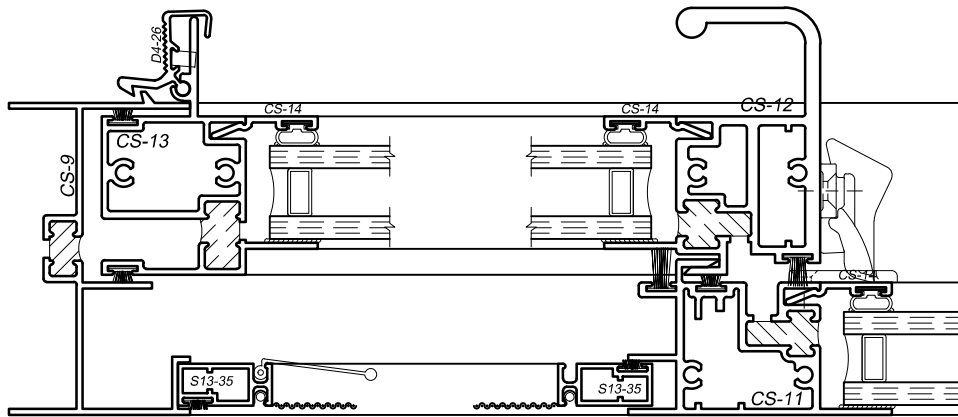
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All screen frames are fixed.



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Section "B" - "B"

SCALE 6"=1'-0"



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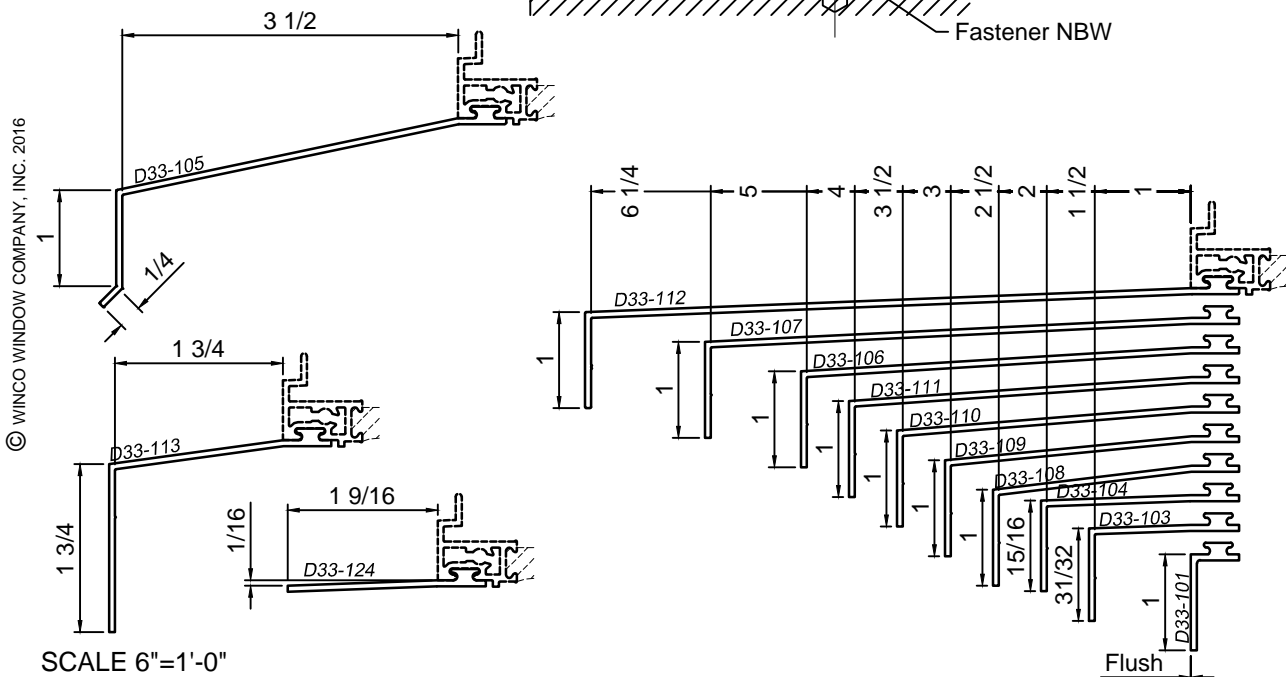
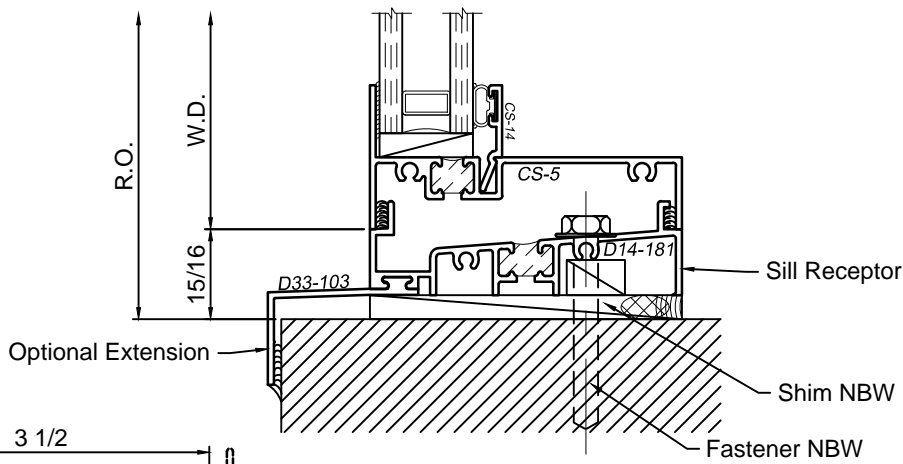
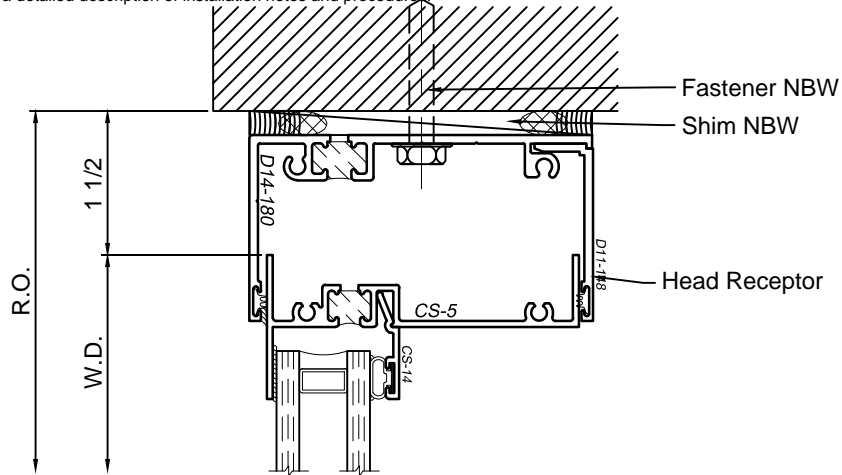
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Trim - Receptor Installation



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

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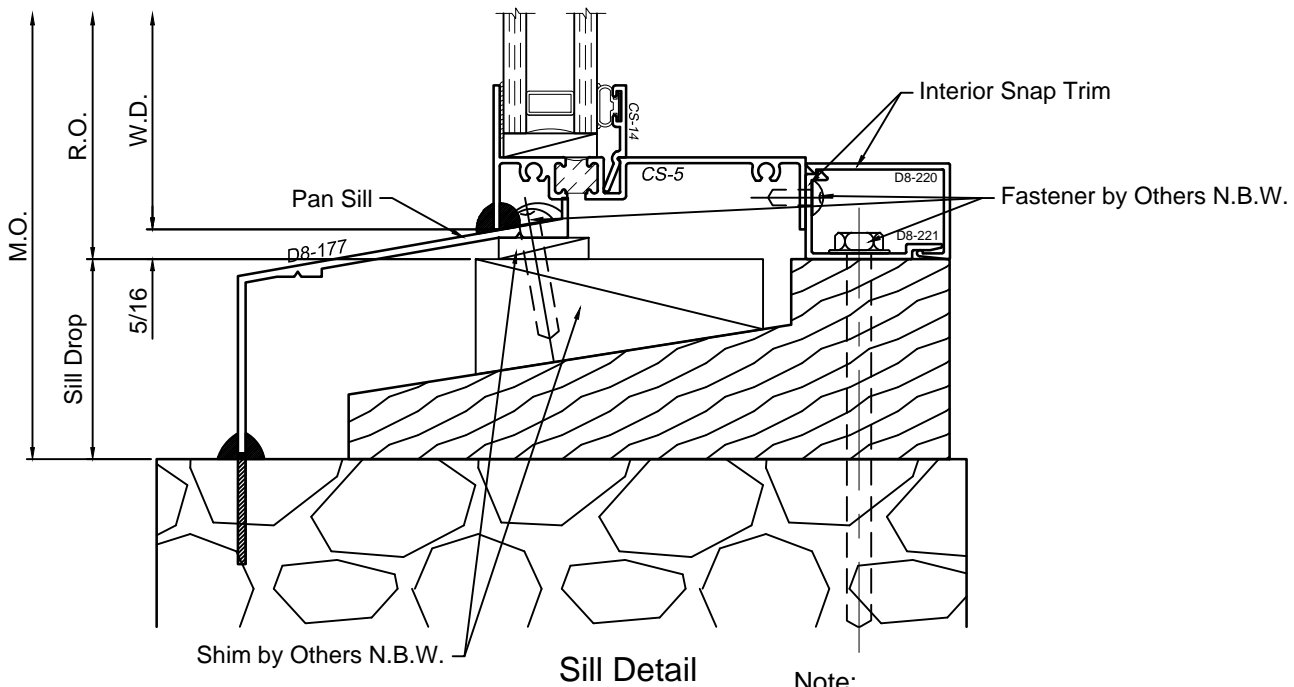
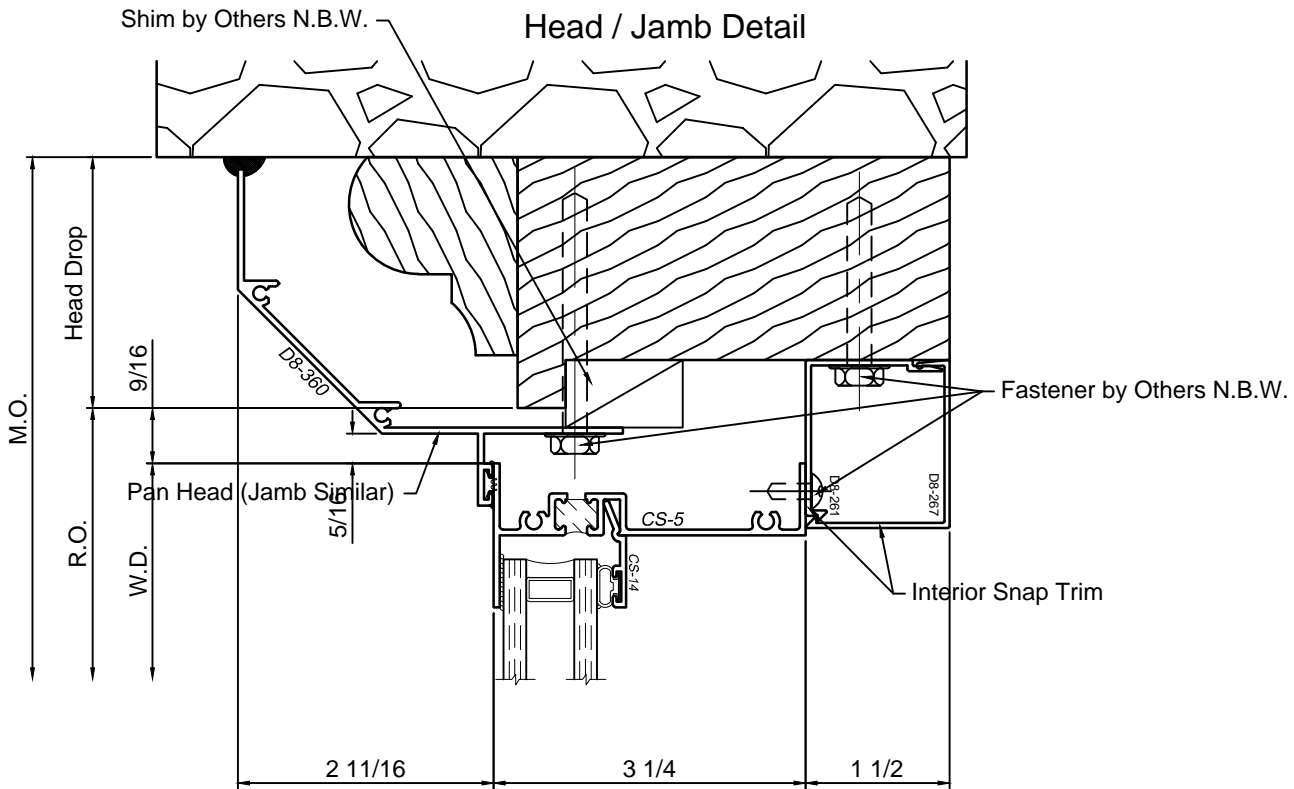
SCALE 6"=1'-0"

3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Trim - Panning Installation



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



Note:
Typical panning system shown. Refer to "Panning and Trim" section of detail binder for all panning and interior snap trim options

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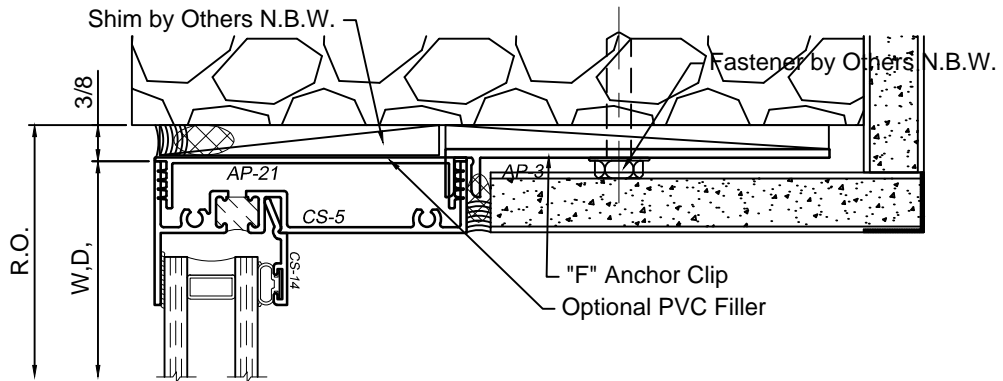
3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Trim - F-Anchor and Snap Trim Installation

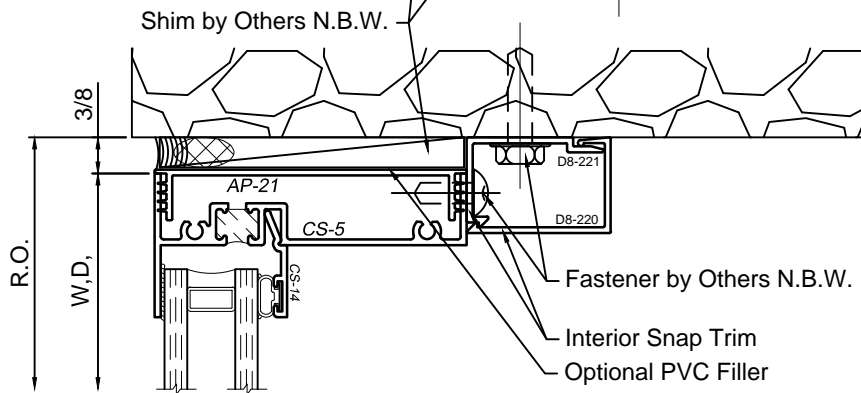
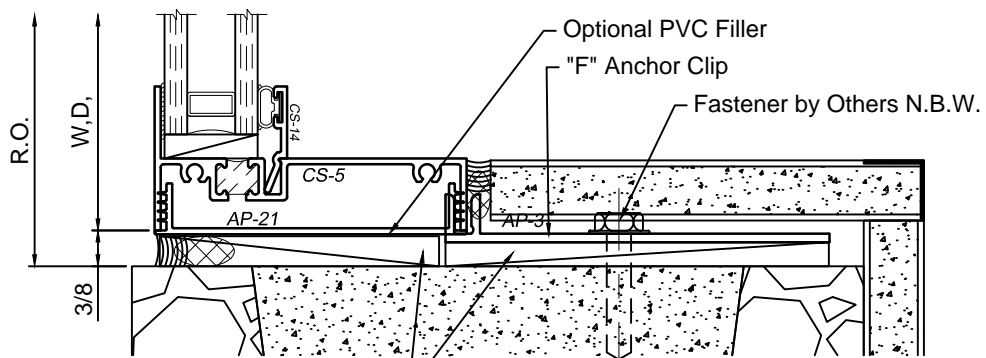


Note: See Winco Installation Instructions for a detailed description of installation notes and procedures.

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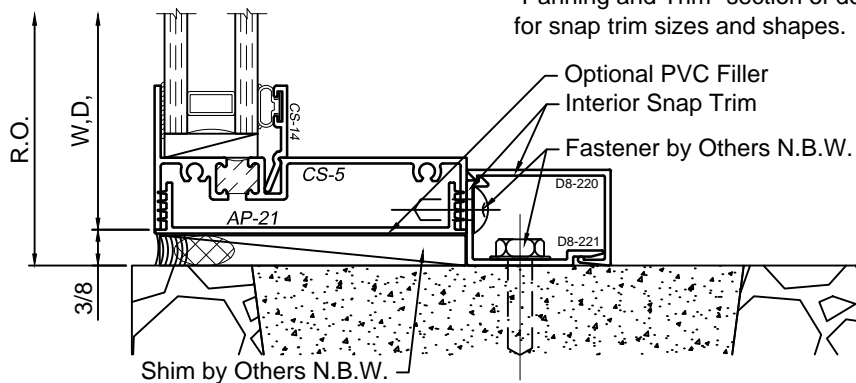


"F" Clip Installation



Snap Trim Installation

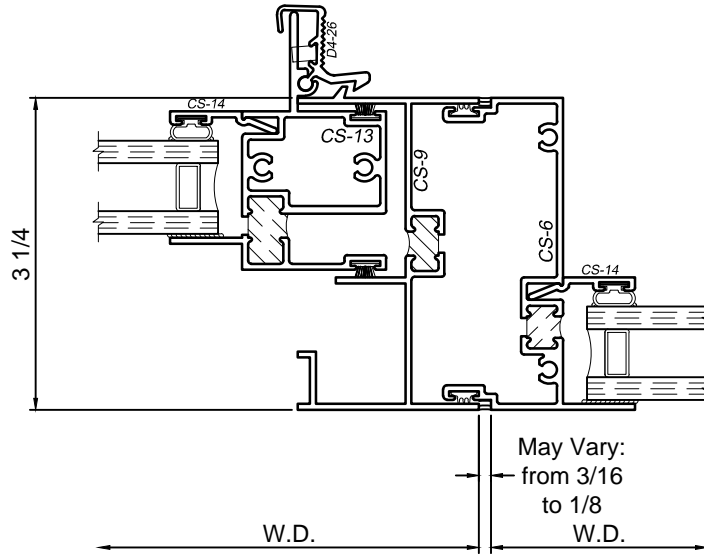
Note:
Typical snap trim profile shown. Refer to "Panning and Trim" section of detail binder for snap trim sizes and shapes.



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Typical Side Stack Framing



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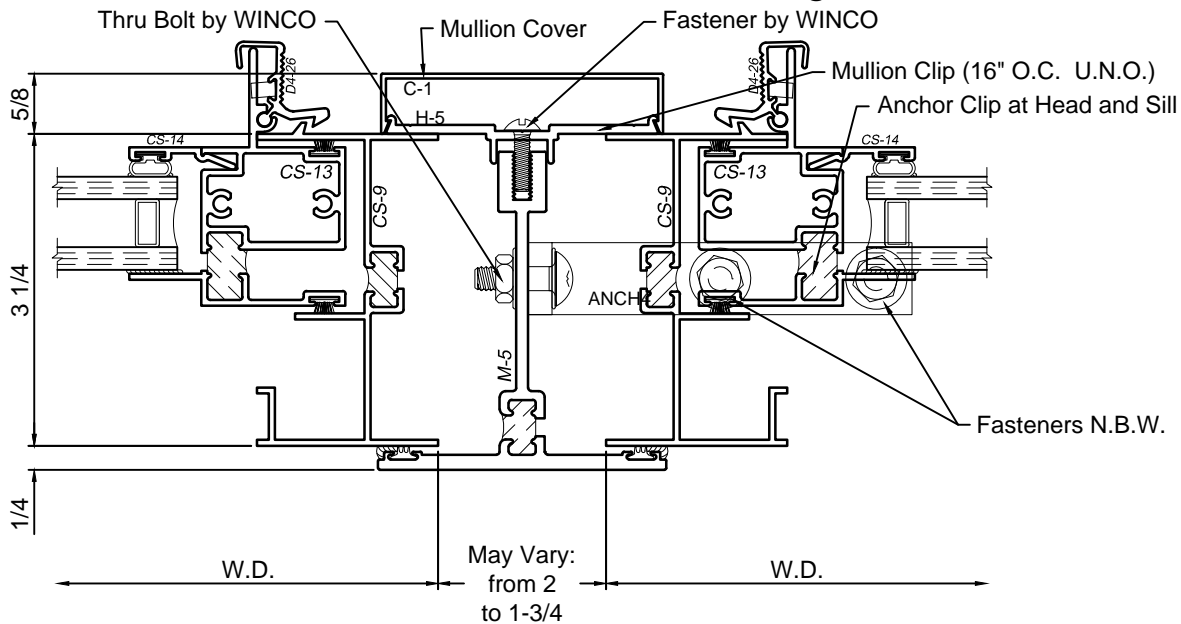
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3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

Product Details - Trim - Mullion and Stacking

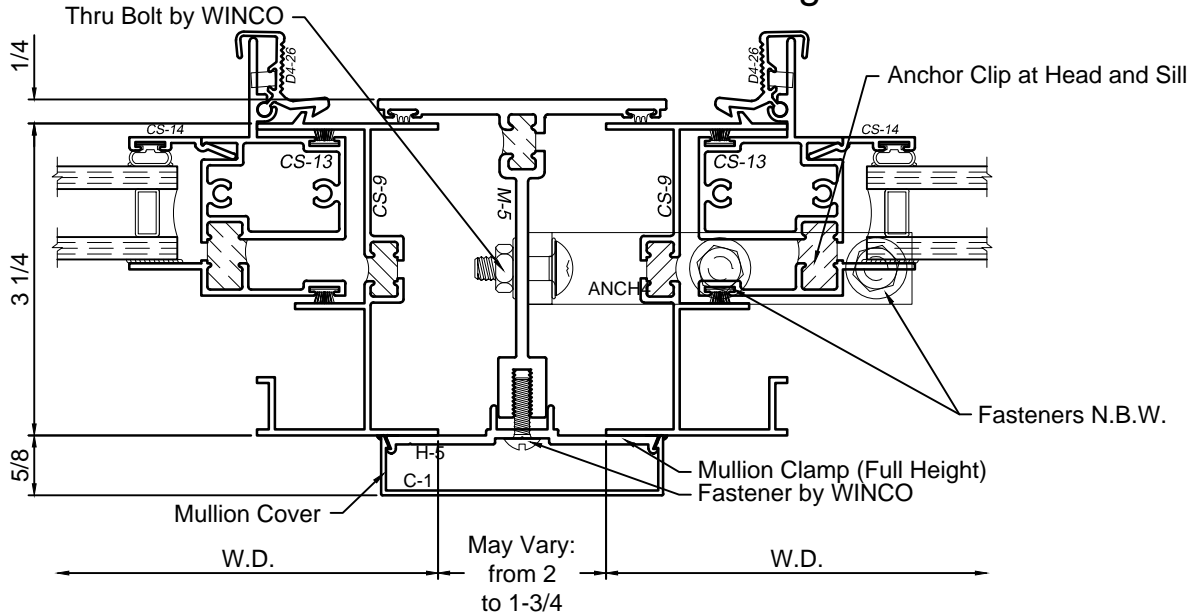


M-5 Mullion set from Building Interior



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M-5 Mullion set from Building Exterior

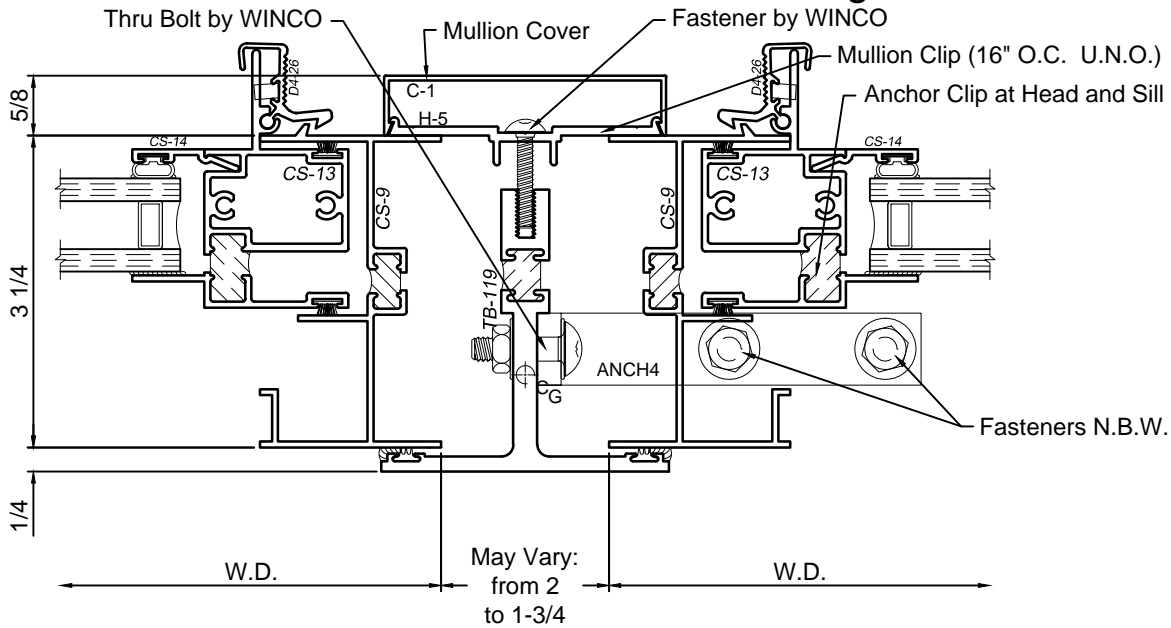


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SCALE 6"=1'-0"

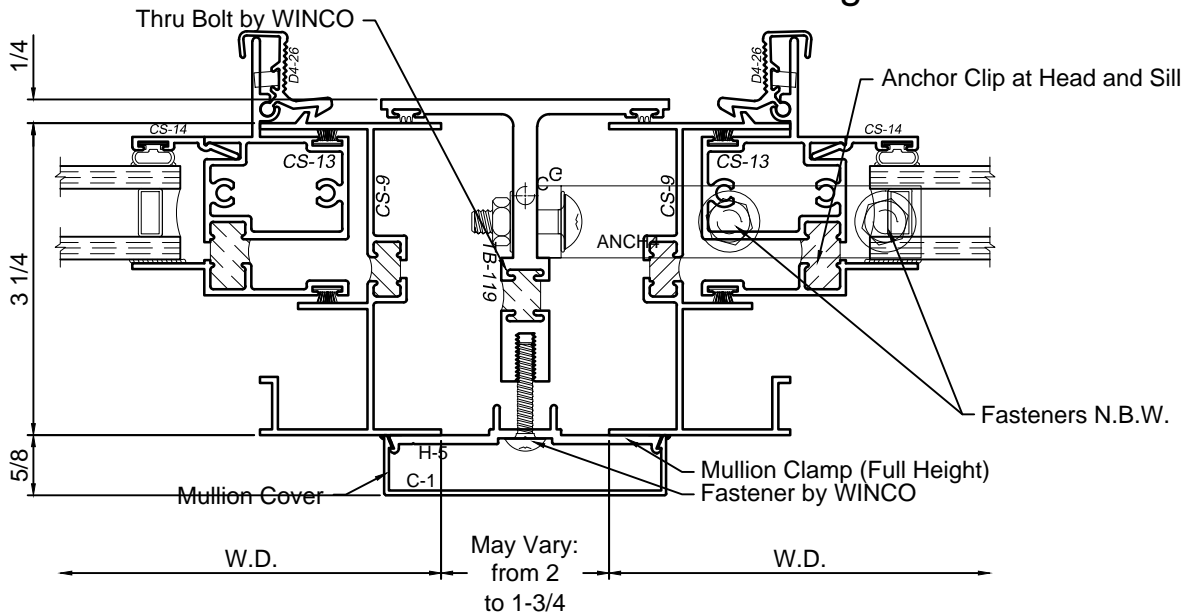


TB-119 Mullion set from Building Interior



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TB-119 Mullion set from Building Exterior



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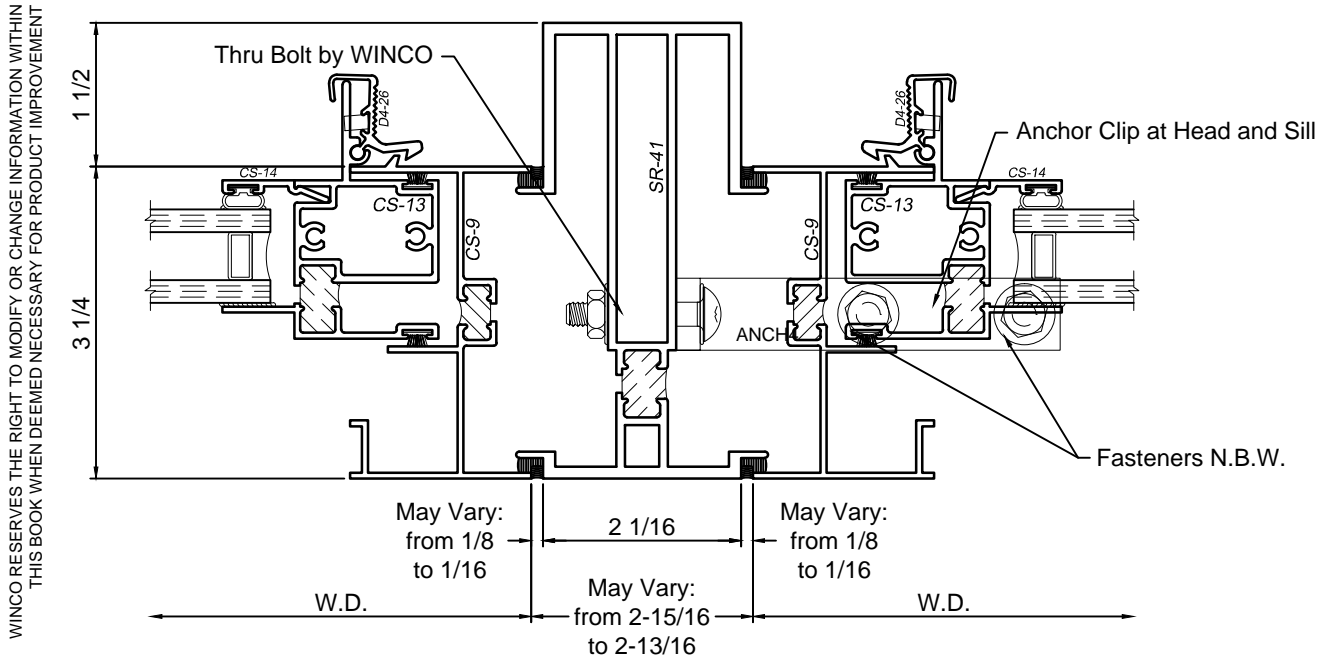
SCALE 6"=1'-0"

3600 Series 3-1/4" Thermal Fixed & Horizontal Sliding Windows

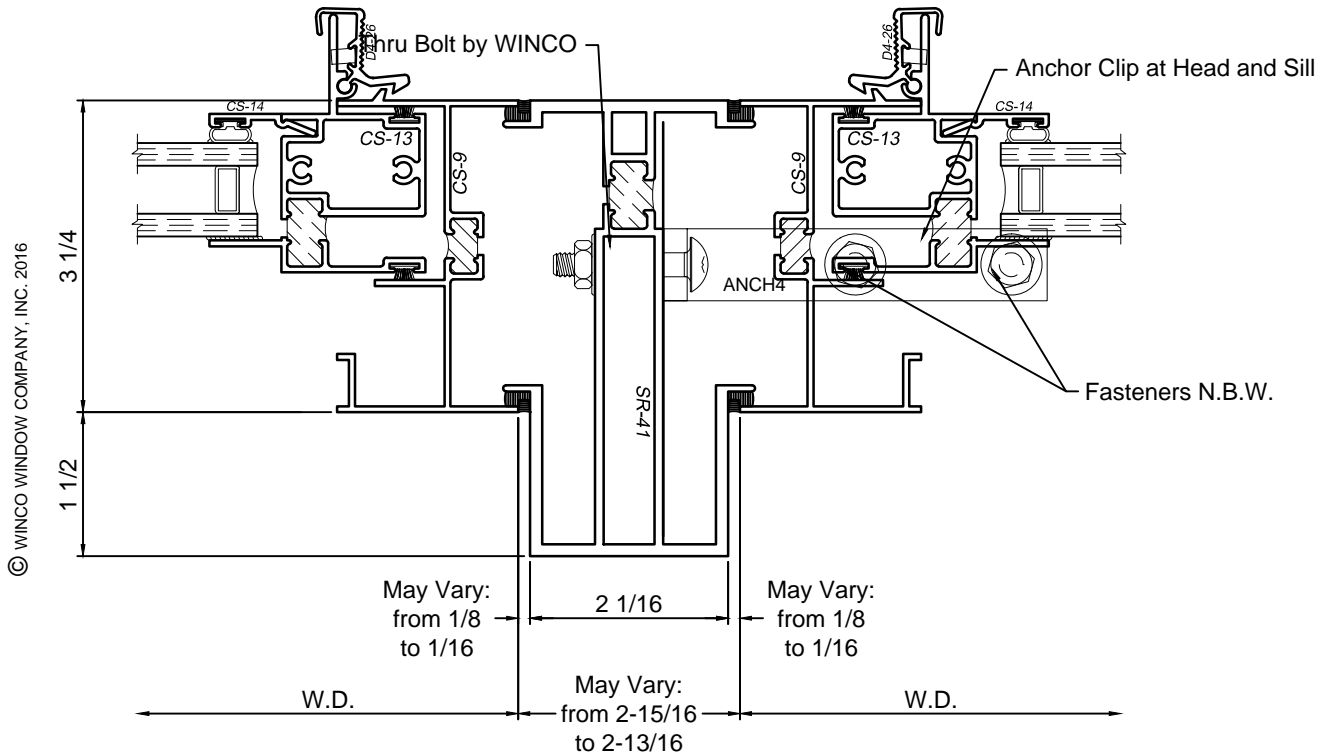
Product Details - Trim - Mullion and Stacking



M-41 Mullion set from Building Interior



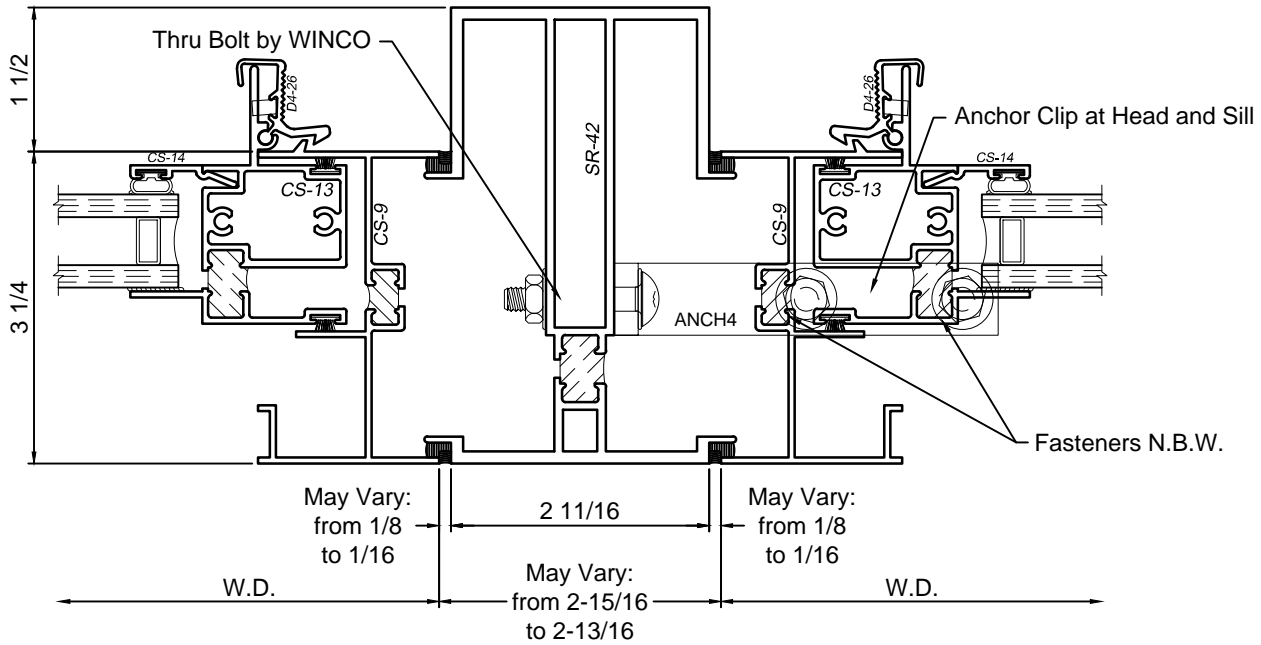
M-41 Mullion set from Building Exterior



SCALE 6"=1'-0"

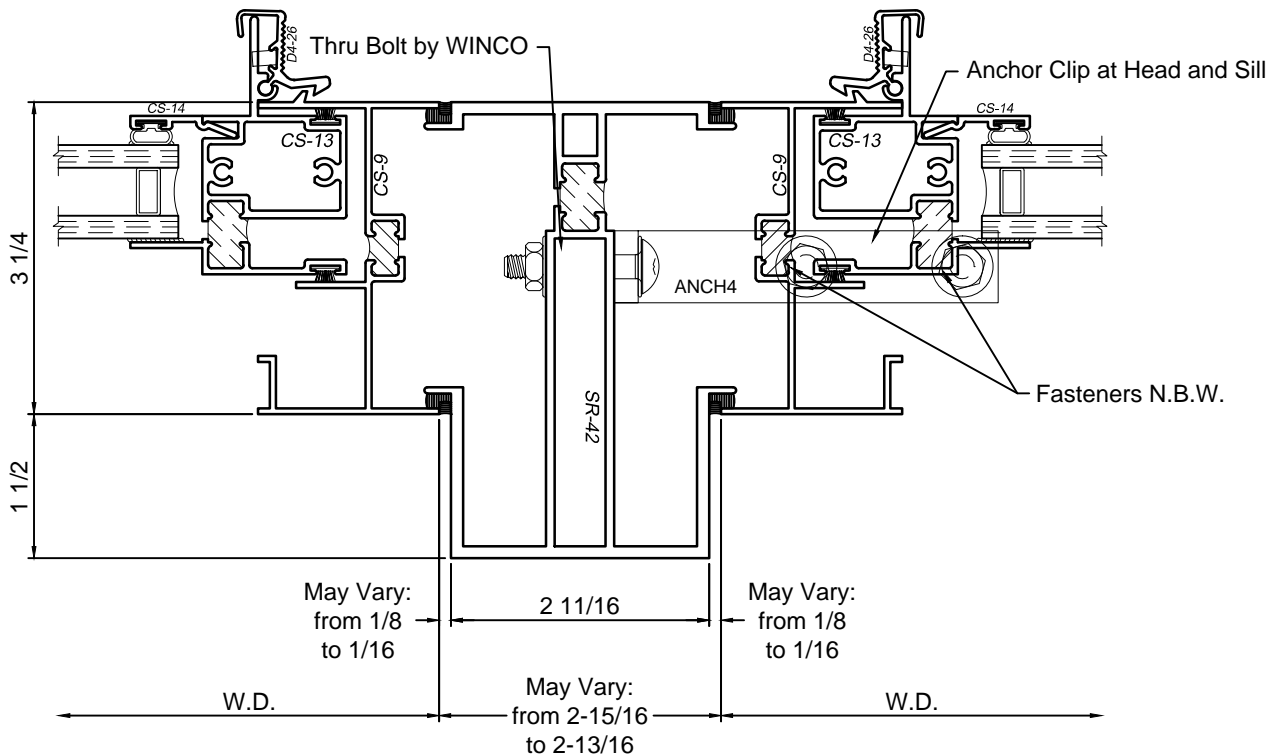


M-42 Mullion set from Building Interior



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M-42 Mullion set from Building Exterior



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SCALE 6"=1'-0"