

Exhibit D

Original Window - 1929



Historical replacement window
installed on the building



4" Architectural Grade Window System

Series 1450HR Fixed - Projected - Casement



The 1450HR Hung Replica Window looks like a double hung window. However, it is available in Fixed, Projected and Casement window configurations. Replication of large hung window sash is no longer a problem or danger. If your needs also require applied muntin grids, the 1450's extruded beveled glazing leg provides the clean appearance and weather-tight construction your project deserves. The 4 inch deep 1/8 inch mainframe provides the strength required for monumental sized windows. As with most Winco Windows between the glass venetian blinds can be added for total vision control. To make your project stand out add some scroll trim or panning to create the custom look you want.

For additional information for the Series 1450HR please visit www.wincowindow.com or contact your local Winco Sales Representative for that additional information and help on your current project.



Wind Protection



Energy Savings



Green Commitment



Historic Replication



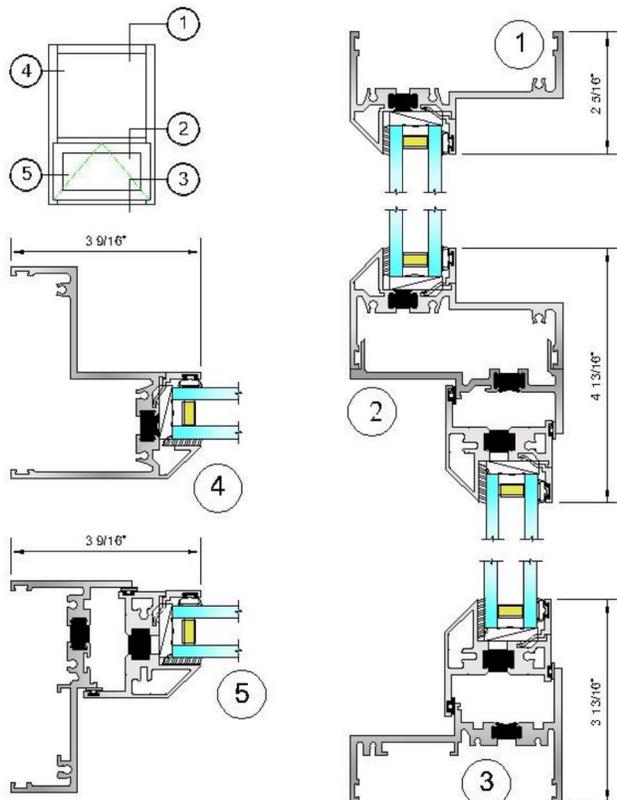
Blast Shield



Noise Control

1450HR Features

- 4" frame depth 1/8" wall thickness for superior structural performance and durability
- With or without Integral extruded beveled glazing leg
- Azon "Azo-Braided" thermally broken frame and sash, backed by a 10 year warranty against thermal break shrinkage
- Fully mitered overlap sash configuration with fully sealed corners and dual weather-stripping
- Various glazing thicknesses up to 1"
- Dual glazing with optional integral blinds
- Wide variety of locking and operating hardware available
- Vertical and Horizontal stacking member
- Optional aluminum extruded screens
- Optional Accessory line of sub-frames, mullions, panning and trim for a customized look with standard products
- Optional blast and Impact glazing available



3/17

Performance Data

Projected AW Grade AP-AW100

Air.....<.10cfm/ft @ .624psf
 Water.....no leakage @ 12#
 Structural.....+/- 150psf
 CRF.....60*
 U-Value......43*
 STC.....From 35 to 54

Projected AW Grade C-AW100

Air.....<.10cfm/ft @ .624psf
 Water.....no leakage @ 12#
 Structural.....+/- 150psf
 CRF.....60*
 U-Value......43*
 STC.....From 35 to 54

*U-Value, CRF and AW ratings are based on a particular type of glazing and window configuration being used. Performance may vary when different glazing types and sizes are used.

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Made in the U.S.A

4" Architectural Grade Window System

Series 1450HR Fixed - Projected - Casement



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Wind Protection



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Blast Shield



Noise Control

4" Thermal Hung Replica and Slider Replica Windows

Product Information



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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.

Fixed			Project Out - Awning		
AAMA Rating	AW-100		AAMA Rating	AW-100	
Air Infiltration	0.0 CFM/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)	65		CRF (AAMA 1503)	60	
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	59" x 24" ²	60" x 36" ¹
	0.20	0.34	0.20	0.49	0.43
	0.24	0.37	0.24	0.52	0.45
	0.29	0.41	0.29	0.55	0.49
	0.34	0.45	0.34	0.58	0.52
	0.47	0.55	0.47	0.65	0.61

Project In - Hopper			Casement		
AAMA Rating	AW-100		AAMA Rating	AW-100	
Air Infiltration	0.01 CFM/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)	68		CRF (AAMA 1503)	60	
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	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	0.20	0.49	0.43
	0.24	0.52	0.24	0.52	0.45
	0.29	0.55	0.29	0.55	0.49
	0.34	0.58	0.34	0.58	0.52
	0.47	0.65	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

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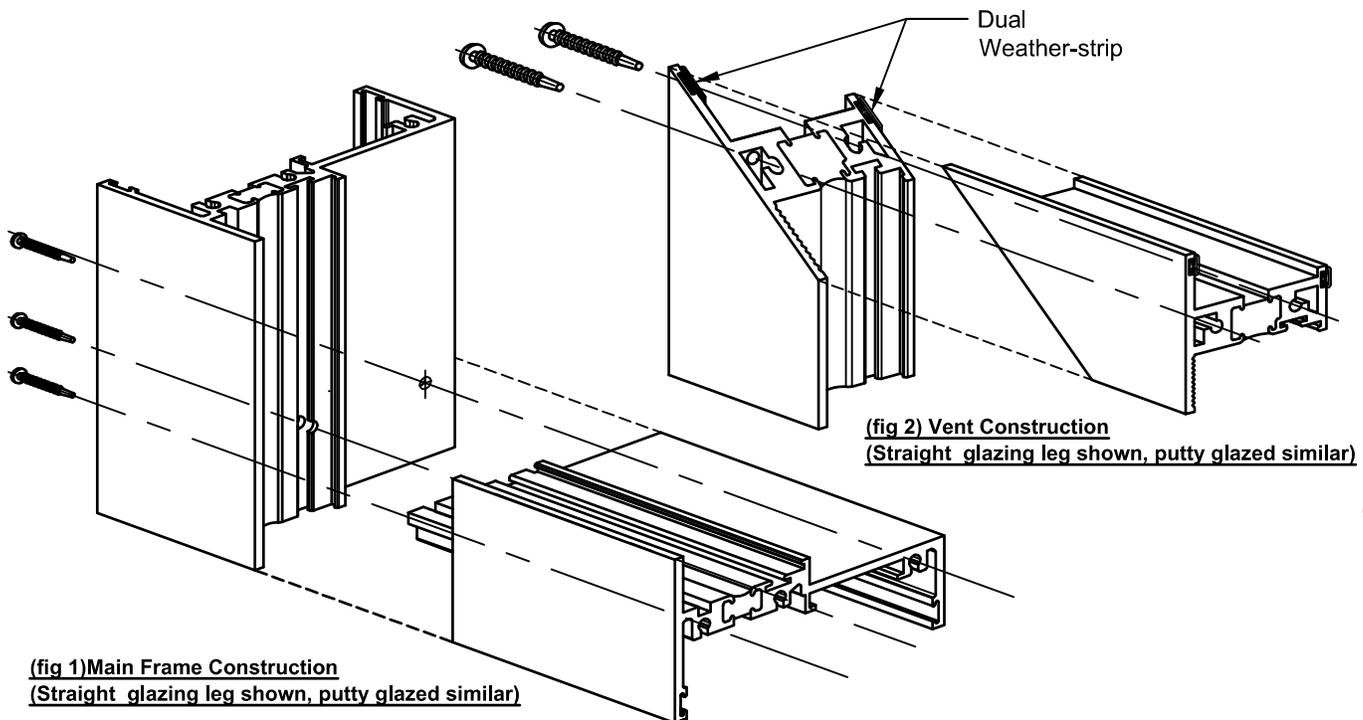
CONSTRUCTION

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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4" Thermal Hung Replica and Slider Replica Windows

Product Information



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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 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"
Insulated		-	-	-	-	-	-	-	-	-	X	X	X ¹	X ¹	X ¹
Dual Glazed	Exterior	-	X	X	-	-	-	-	X	-	-	-	-	-	-
	Interior	X	X	X	-	X	X	X	-	-	-	-	-	-	-
Triple Glazed	Exterior	-	-	-	-	-	-	-	X	-	-	X	-	-	-
	Interior	X	X	X	-	X	X	X	-	-	-	-	-	-	-

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	-	X	-	-	O ²	X	O ³	O	O ²	O ²	O	O	O	O ⁵
PI - Hopper	-	X	-	-	-	X	O	O	O	O	-	O	O	-
Casement - Outswing w/ concealed Hinges	-	-	X	-	O ^{2,4}	O	O ³	O	O	O	X	O	O	O ^{2,5}
Casement - Inswing w/ concealed Hinges	-	-	X	-	-	O	O	O	X	O	-	O	O	-

X = Standard Hardware

O = Optional 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

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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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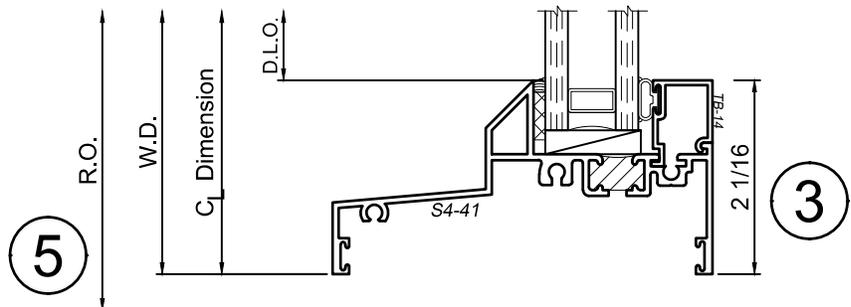
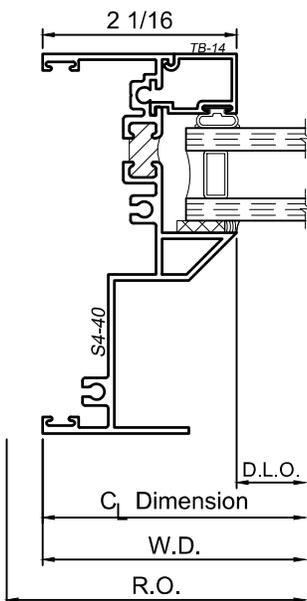
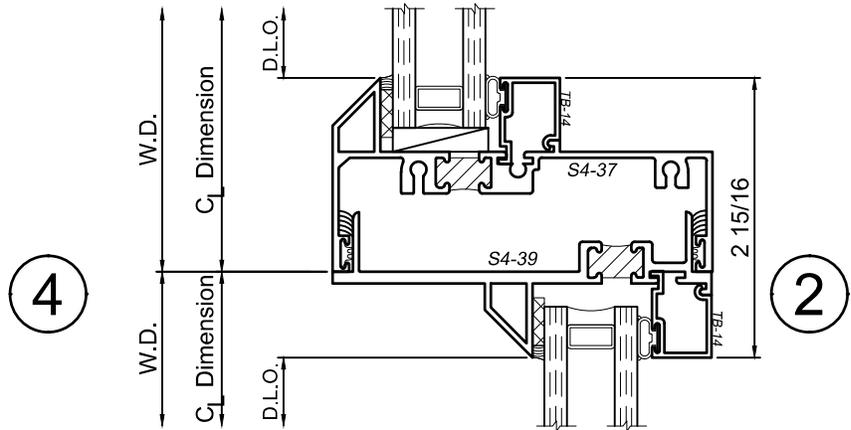
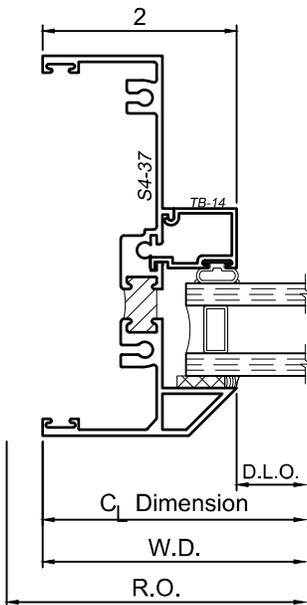
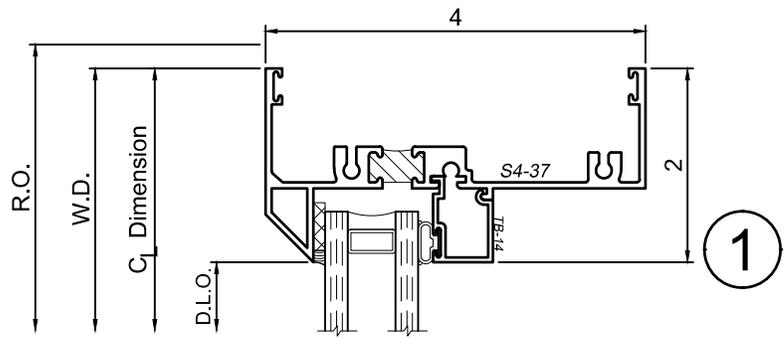
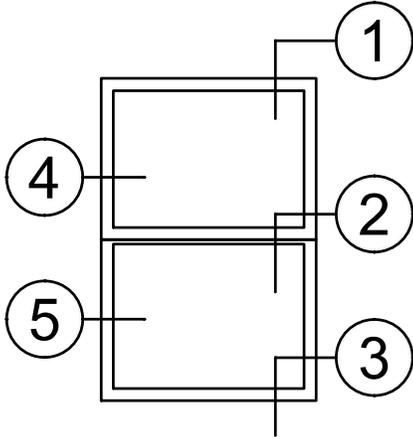
4" Thermal Hung Replica and Slider Replica Windows

Product Details - Fixed over Fixed [HR-3]



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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Grand Park Center
Fixed I.G. only
1" I.G. w/ TB-14 Bead
All Grid Option

Not compatible
w/ RS-xx, F14-xx, FS-xx, TS-xx
or Blind Access Sash

SCALE 6"=1'-0"

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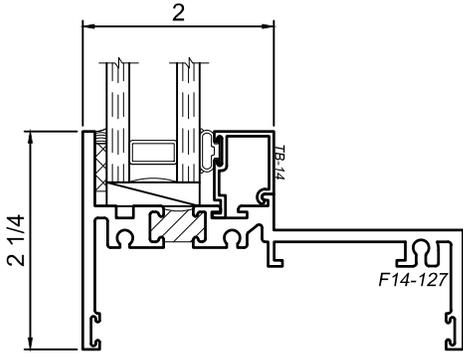
4" Thermal Hung Replica and Slider Replica Windows

Product Details - Frame Options

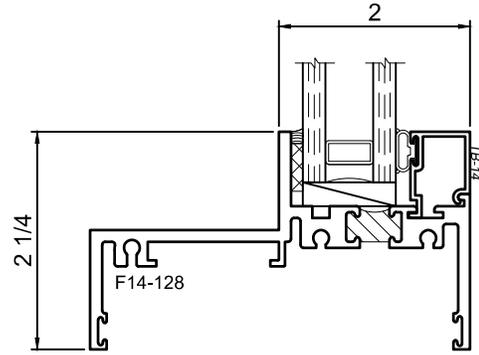


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

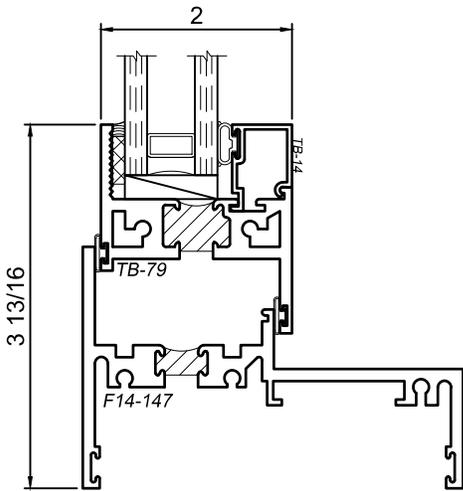
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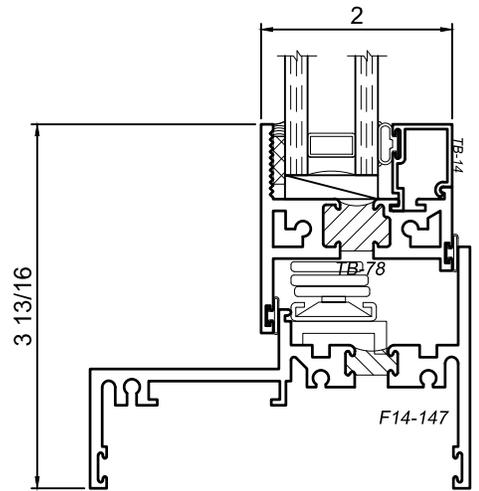
Available at head, jamb, and sill



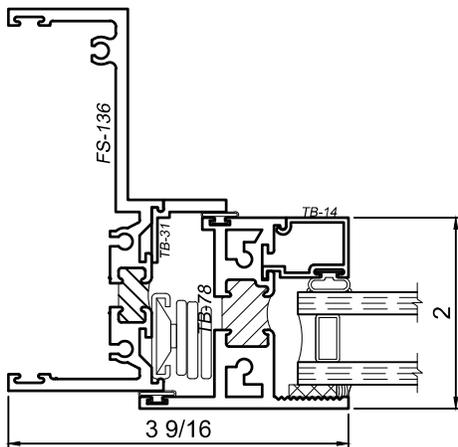
Available at head, jamb, and sill



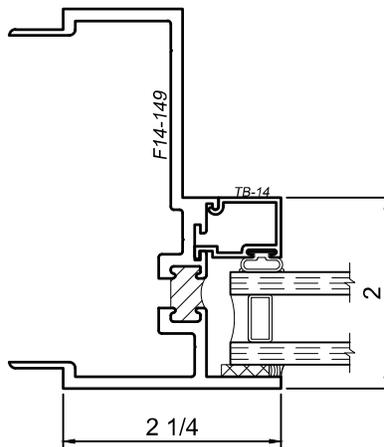
Available at sill



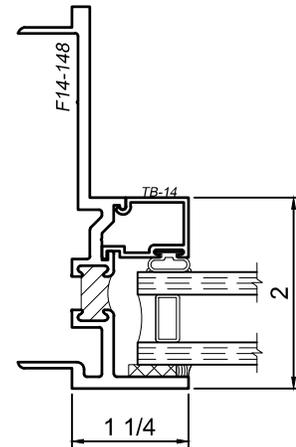
Available at sill



Available at head and jamb



Available at head and jamb



Available at head and jamb

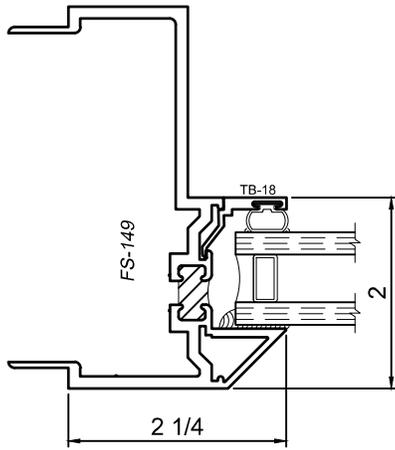
SCALE 6"=1'-0"

4" Thermal Hung Replica and Slider Replica Windows

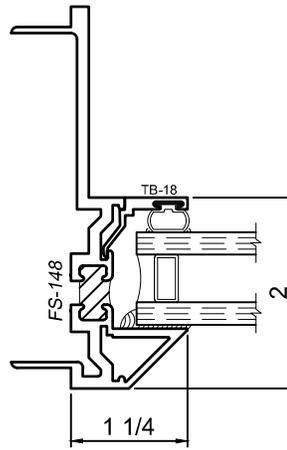
Product Details - Frame Options



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.



Available at head and jamb



Available at head and jamb

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SCALE 6"=1'-0"

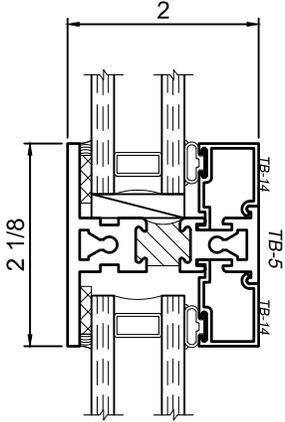
4" Thermal Hung Replica and Slider Replica Windows

Product Details - 2 Inch and 4 Inch Rail Options

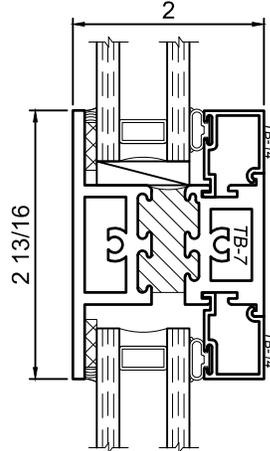


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

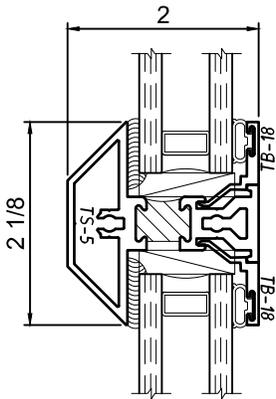
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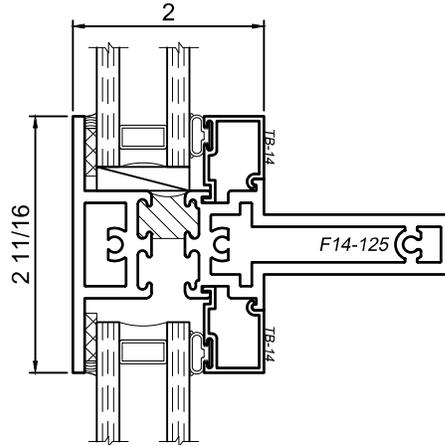
Standard 2 Inch T - Rail
(only compatible w/ F14-xx frame,
Fixed or PI configuration)



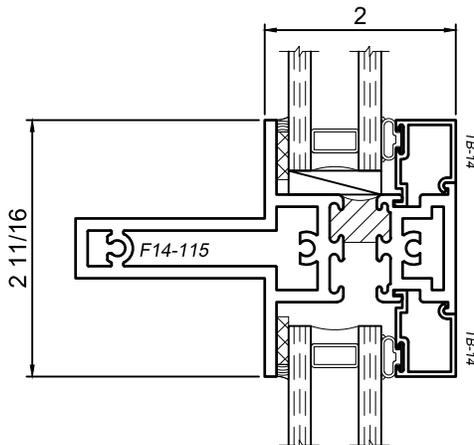
Heavy Duty 2 Inch T - Rail
(only compatible w/ F14-xx frame,
Fixed or PI configuration)



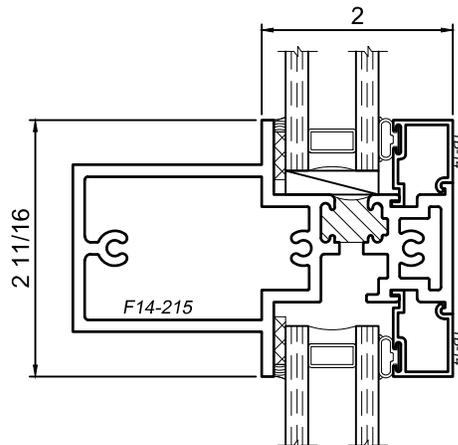
Standard 2 Inch T - Rail
(only compatible w/ F14-xx frame,
Fixed configuration)



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



Standard 4 Inch T - Rail for Bottom Unit
(only compatible w/ F14-28 or F14-128 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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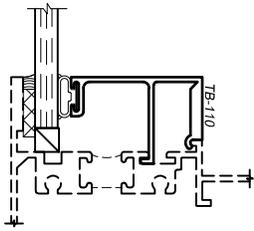
4" Thermal Hung Replica and Slider Replica Windows

Product Details - Glazing Options

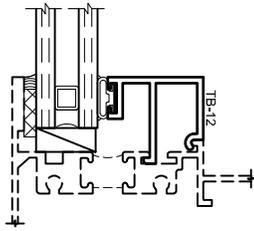


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

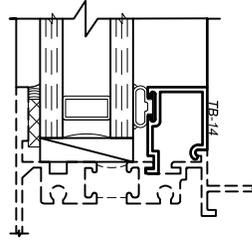
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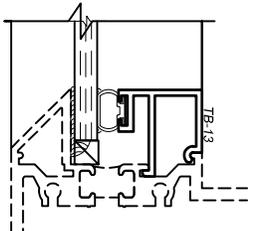
1/4" Glazing Bead
TB-110
F14-xx Frame &
TB-7x Sash



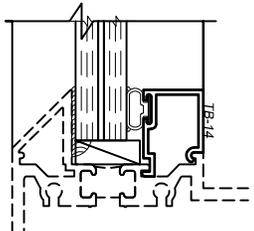
5/8" Glazing Bead
TB-12
F14-xx Frame &
TB-7x Sash



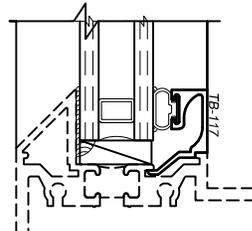
1" Glazing Bead
TB-14
F14-xx Frame &
TB-7x Sash



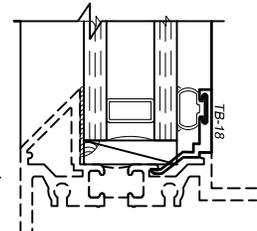
1/4" Glazing Bead
TB-13
FS-xxx Frame &
TS-7x Sash



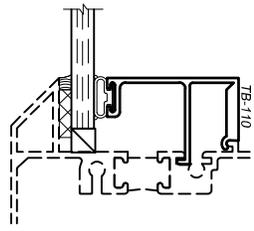
1/2" Glazing Bead
TB-14
FS-xxx Frame &
TS-7x Sash



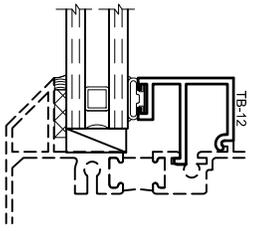
3/4" Glazing Bead
TB-117
FS-xxx Frame &
TS-7x Sash



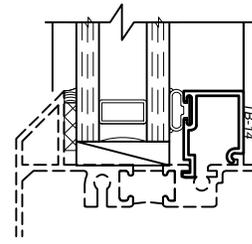
1" Glazing Bead
TB-18
FS-xxx Frame &
TS-7x Sash



1/4" Glazing Bead
TB-110
S4-xx or RS-xx
Frame



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



1" Glazing Bead
TB-14
S4-xx or RS-xx
Frame

SCALE 6"=1'-0"

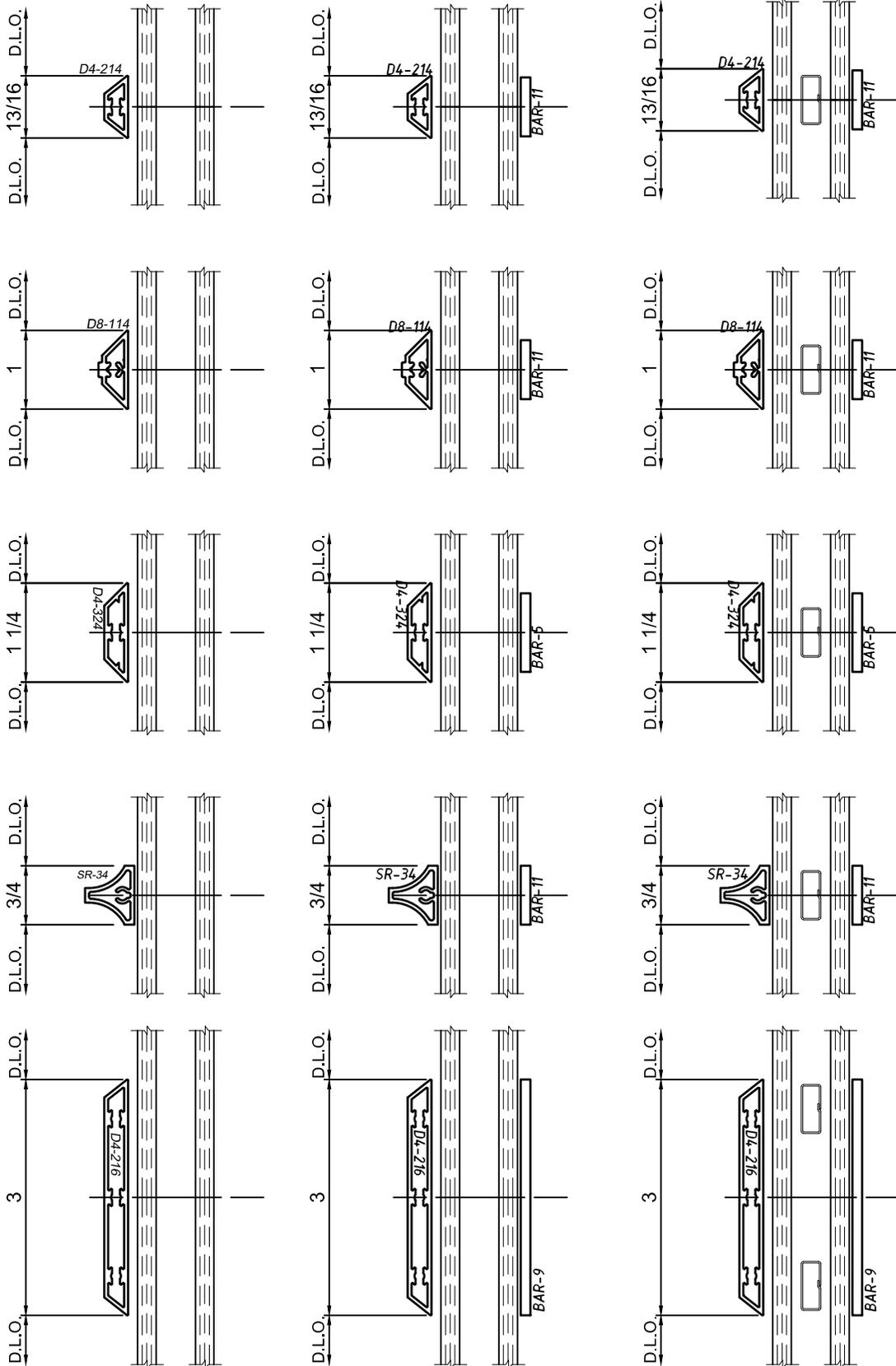
4" Thermal Hung Replica and Slider Replica Windows

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.

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D4-216 must be fully pinned at all intersections.
Half Lap Grid intersection is not available for this profile.

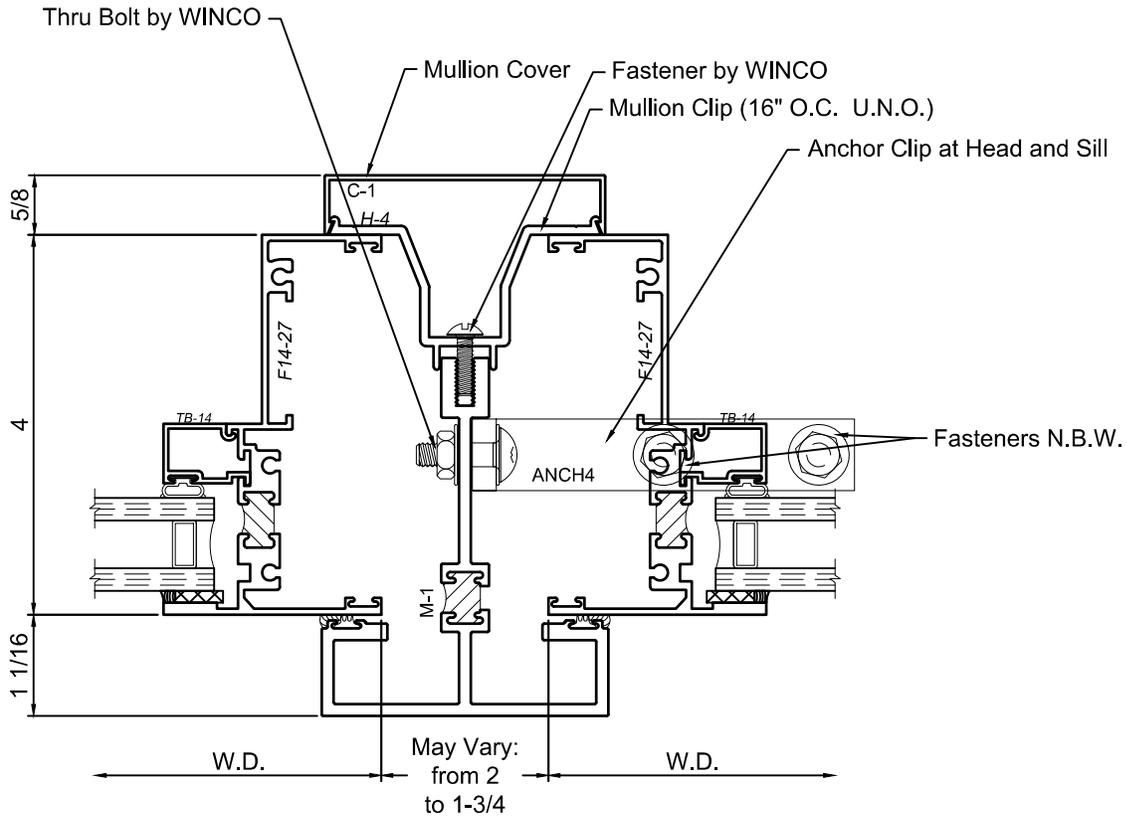
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4" Thermal Hung Replica and Slider Replica Windows

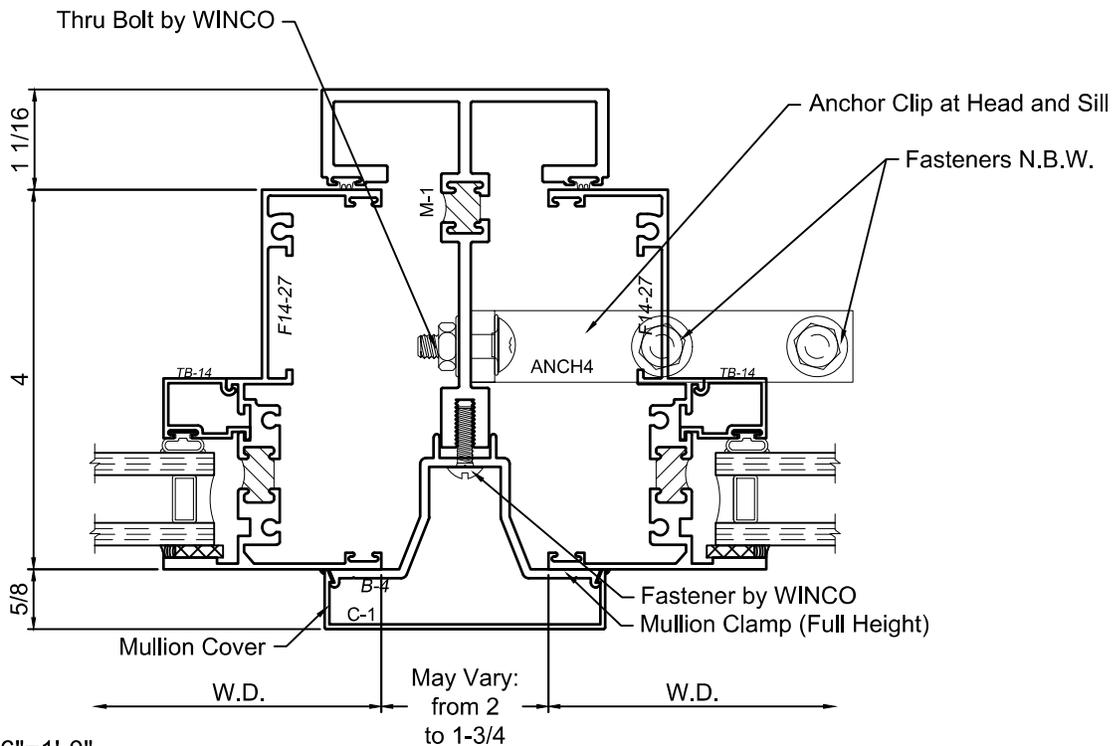
Product Details - Trim - Mullion



M-1 Mullion set from Building Interior



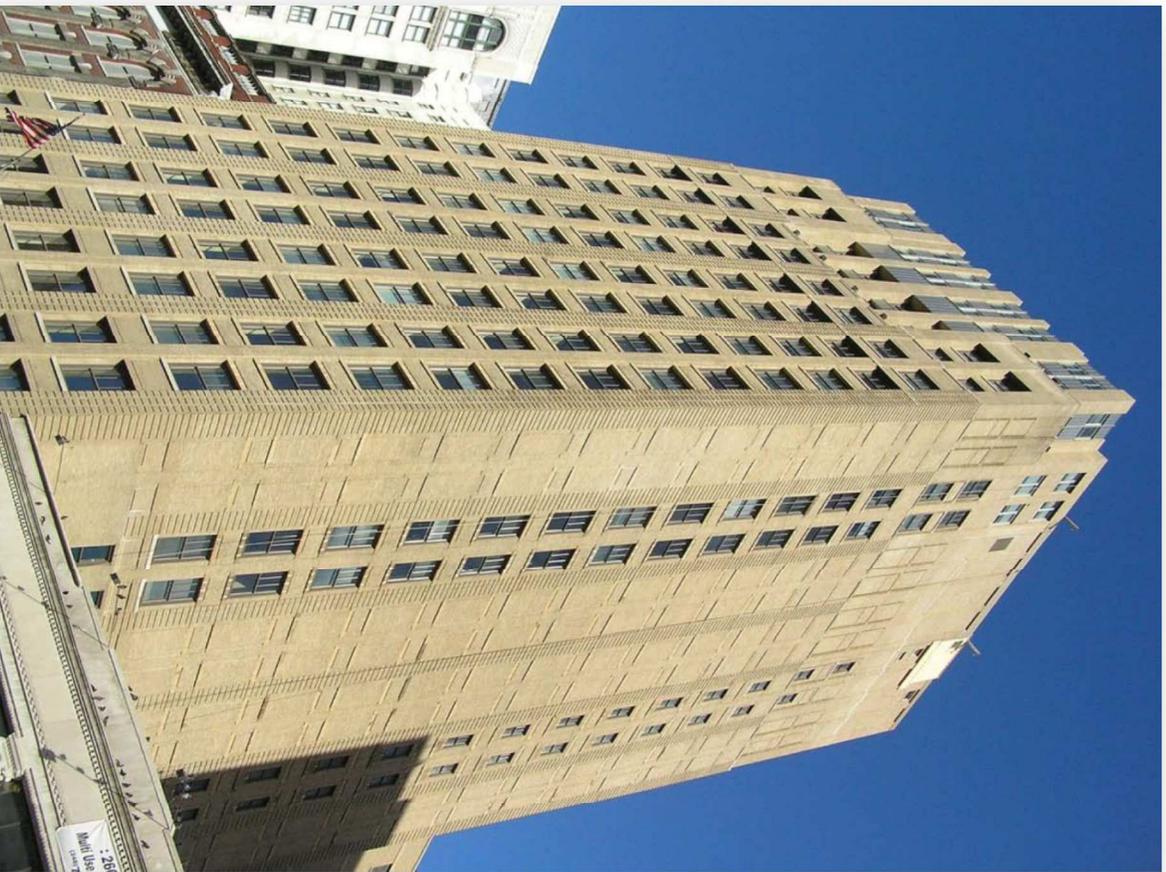
M-1 Mullion set from Building Exterior



SCALE 6"=1'-0"

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Grand Park Center

Detroit MI



American Locomotive

Providence RI



American Locomotive

Providence RI



American Locomotive

Providence RI



Tuttle Building

Atlanta GA



Oldsaybrook Town Hall

Oldsaybrook CT



University of Alabama

Birmingham AL



University of Alabama

Birmingham AL



University of Alabama

Birmingham AL