

PERFORMANCE

The Series 3325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

Project Ou	ıt - Awning		Casement					
AAMA Rating	AV	V-80	AAMA Rating	AW-80				
Air Infiltration	0.02 C	FM/ft ²	Air Infiltration	0.02 C	FM/ft ²			
Water	Over	12 psf	Water	Over 12 psf				
Structural	120	psf	Structural	120	psf			
CRF (AAMA 1503)	6	3	CRF (AAMA 1503)	6	3			
Center of Glass U-Value	Window U-Factor ³		Center of Glass U-Value	Window l	J-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	0.42	0.36	0.20	0.42	0.36			
0.24	0.45 0.40		0.24	0.45	0.40			
0.29	0.49 0.44		0.29	0.49	0.44			
0.34	0.52 0.48		0.34	0.52	0.48			
0.47	0.63 0.59		0.47	0.63	0.59			

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

Please contact WINCO for project specific information

¹AAMA 101 Test Size

² NFRC Gateway Test Size

³ Based on NFRC 100



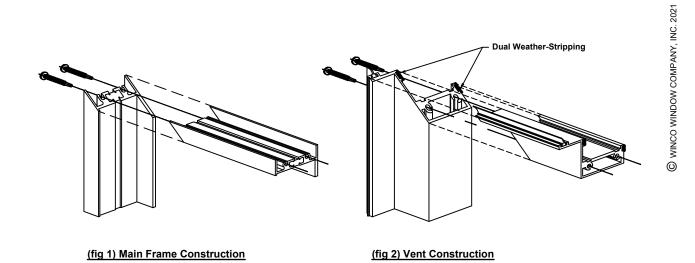
CONSTRUCTION

MATERIAL - The Series 3325 window is a 2" deep frame depth with a 1-1/4" proud vent for zero sight line glazing of 1" insulated glass. The nominal wall thickness is 0.125 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.





GLAZING

The windows is to be exterior glazed without extruded aluminum glazing beads. The nominal I.G. thickness is 1". For actual details refer to the glazing section in the back of the 3325 section for optional glazing 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"
Monoli	ithic	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Insula	ited	-	-	-	-	-	-	-	-	-	Χ	Х	-	-	-
Dual	Exterior	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glazed	Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Triple	Exterior	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glazed	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.

HARDWARE

All exposed locking hardware, strikes and keepers are solid white bronze alloy with US25D brushed finish. All four bar arms and key release limit arms are stainless steel conforming to AAMA 904.1.

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	1	-	0	Х	0	0	0	0	Х	0	0	O 5
PI - Hopper	-	-	1	-	-	-	1	-	-	-	-	-	-	-
Casement - Outswing w/ Butt Hinges	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Casement - Inswing w/ Butt Hinges	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Casement - Outswing w/ concealed Hinges	-	Х	-	-	-	0	O 3	0	Х	0	Х	0	0	O ^{2, 5}
Casement - Inswing w/ concealed Hinges	-		-				-				-			

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
- $^{\rm 4}\,$ Hinge Geometry of concealed 4-Bar casement windows is unsuitable for this product.
- $^{\rm 5}\,$ Under screen push bars are not recommended by Winco if optimum water performance is a requirement

3325 Series 3-1/4" Thermal Casement & Projected Windows Product Information



SCREENS

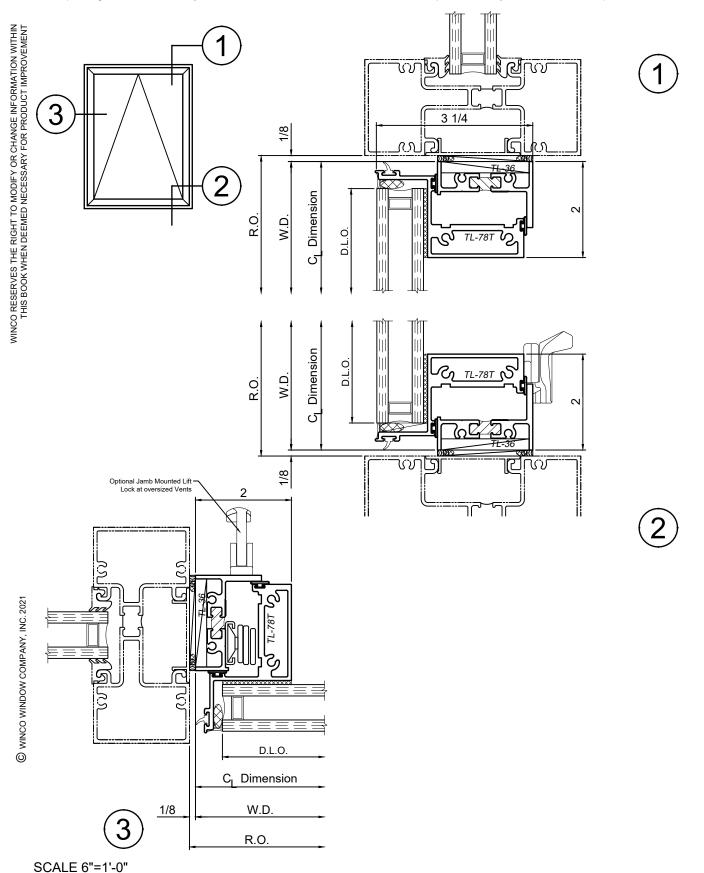
FRAME - frames are fabricated from 6063-T6 extruded aluminum alloy and temper. All screen frames are miter cut and corner keyed. The corners are mechanically crimped together for durability. The screen frame is finished to match the window frame.

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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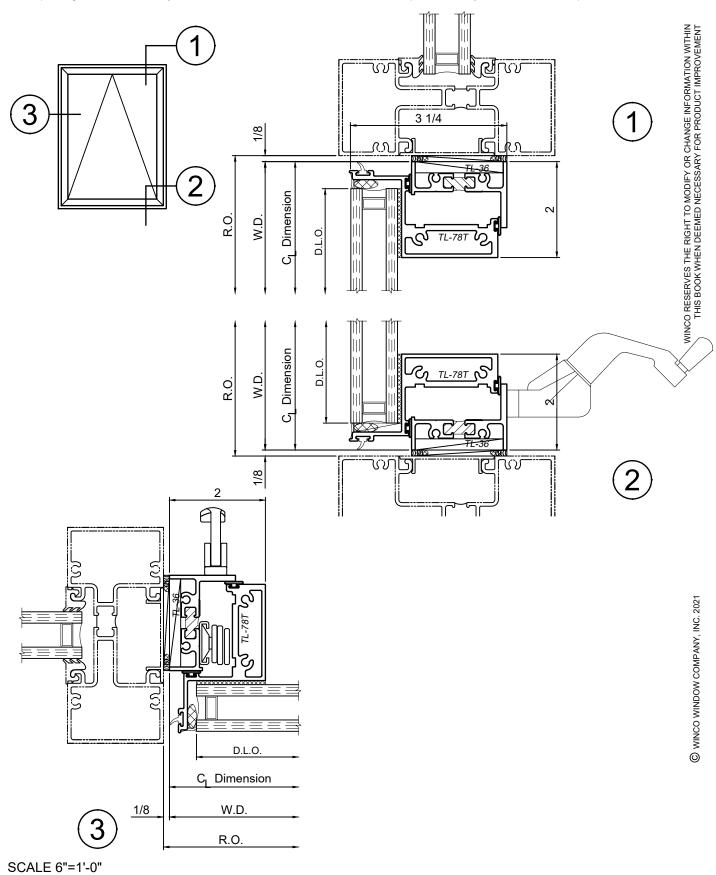
3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Storefront - PO Awning





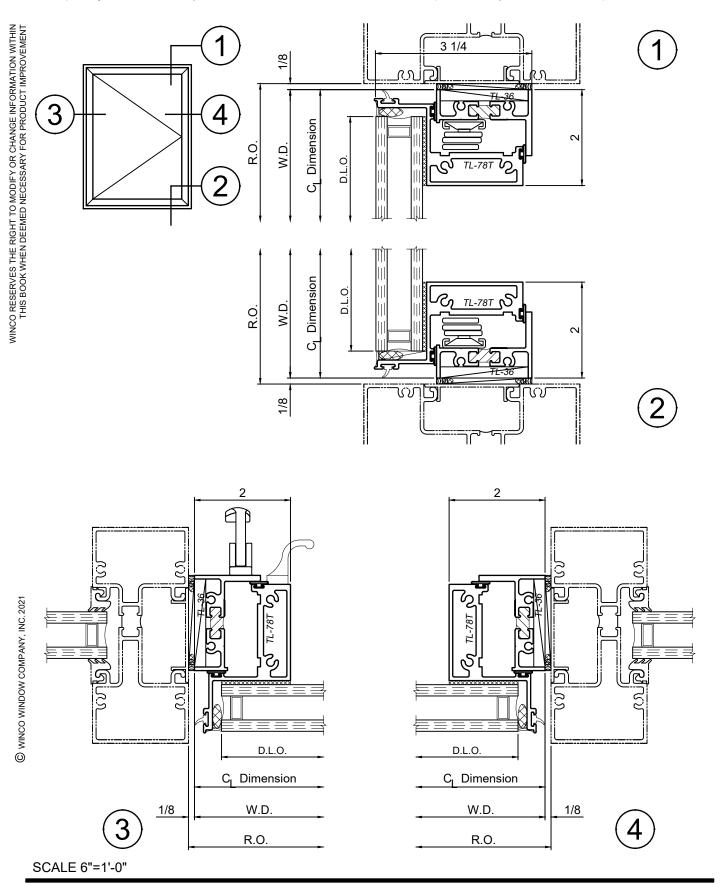
3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Storefront - PO Awning w/ Roto Operator





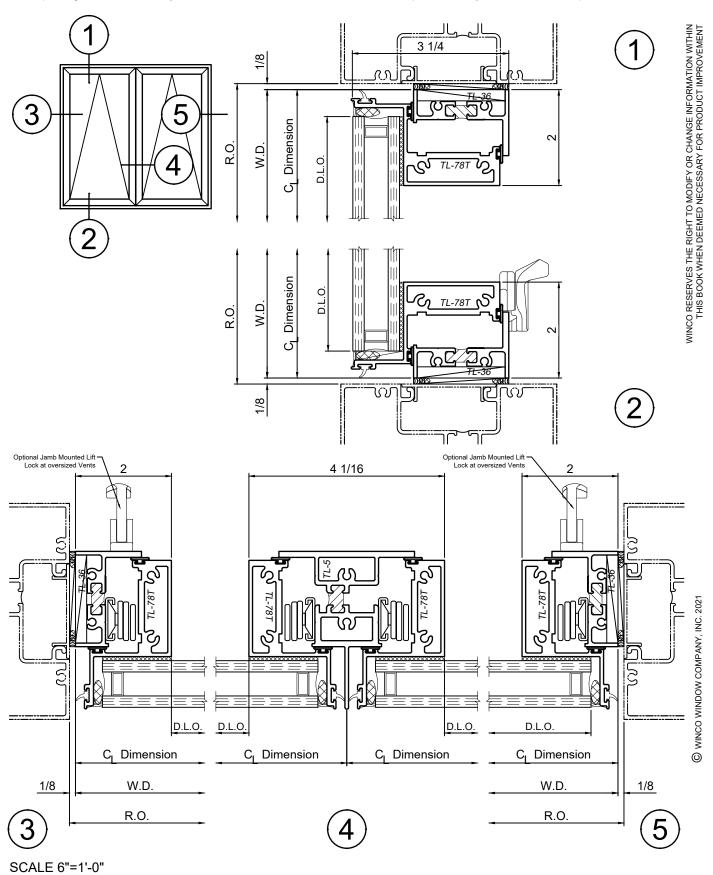
3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Storefront - Outswing Casement





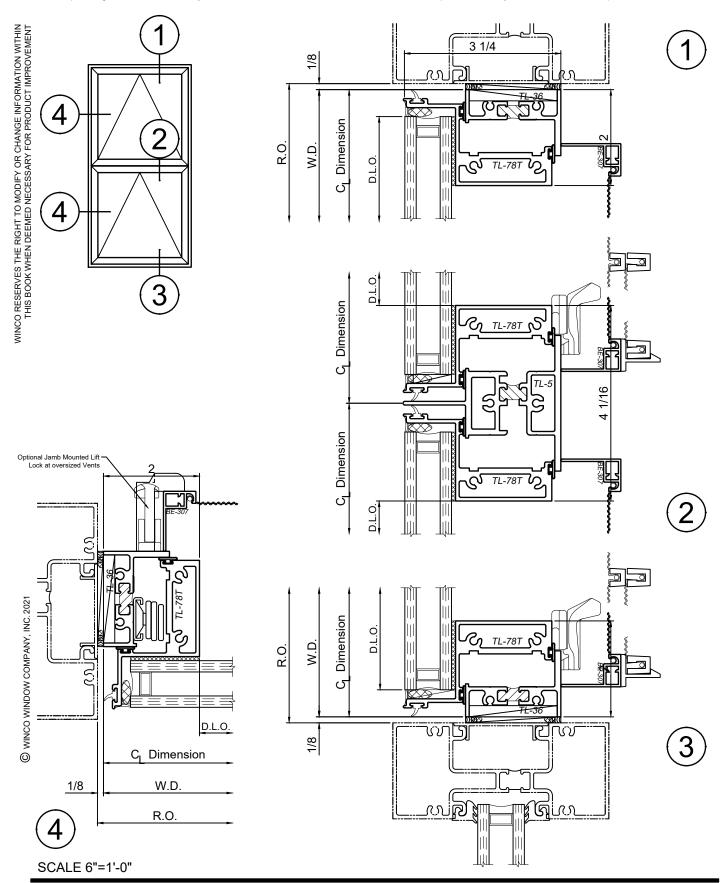
3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Storefront - PO Awning w/ Vertical Rail





3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Storefront - PO Awning w/ Horizontal Rail

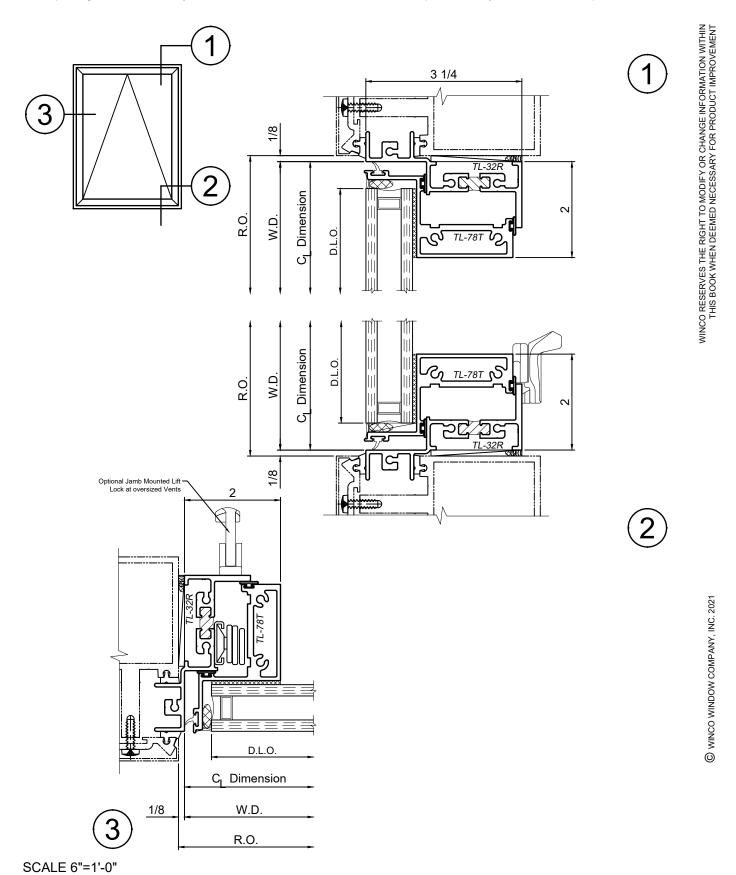




3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Curtain Wall - PO Awning



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.

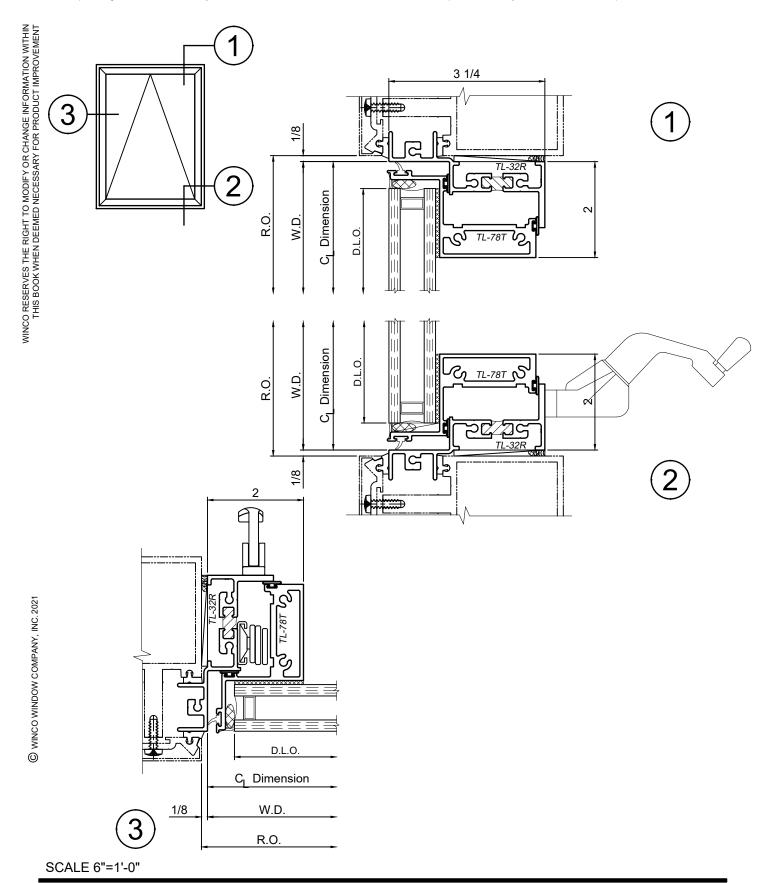


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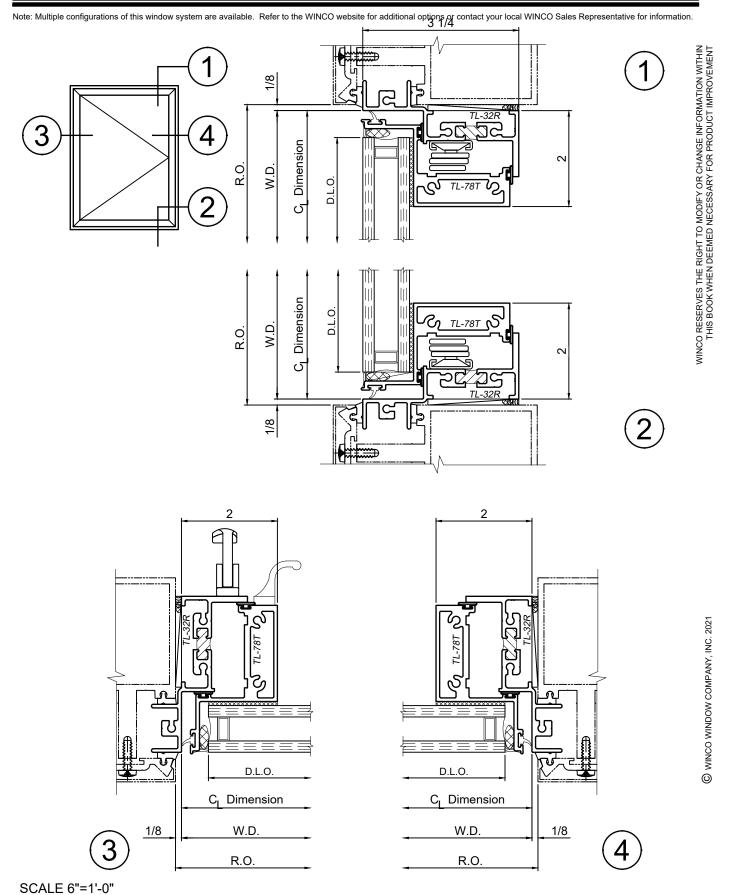
3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Curtain Wall - PO Awning w/ Roto Operator





3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Curtain Wall - Outswing Casement





3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Curtain Wall - PO Awning w/ Vertical 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. 3 1/4 WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT Dimension α Я. О. W.D. D.L.O. G Dimension W.D. В. О. 1/8 Optional Jamb Mounted Lift Optional Jamb Mounted Lift Lock at oversized Vents 4 1/16 © WINCO WINDOW COMPANY, INC. 2021 D.L.O D.L.O. D.L.O. D.L.O. C_I Dimension C_I Dimension Dimension C_I Dimension 1/8 W.D. W.D 1/8 R.O. R.O.

SCALE 6"=1'-0"

3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Curtain Wall - PO Awning w/ Horizontal Rail

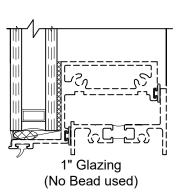


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information. 3 1/4 WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT Dimension Я. О. W.D. D.L.O. G Dimension <u>TL-78</u>T √S G Dimension Optional Jamb Mounted Lift Lock at oversized Vents G D.L.O. © WINCO WINDOW COMPANY, INC. 2021 Dimension W.D. Я. О. Q D.L.O 3 Dimension 1/8 W.D. R.O. SCALE 6"=1'-0"



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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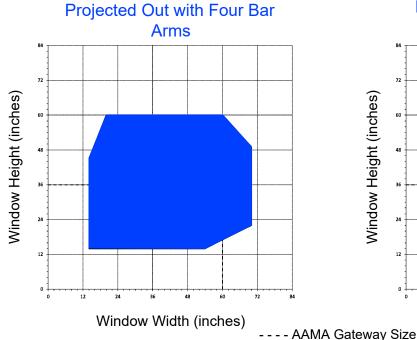
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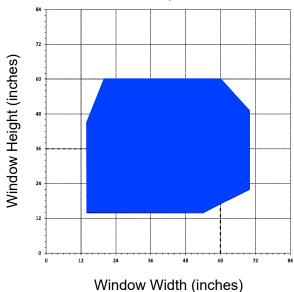
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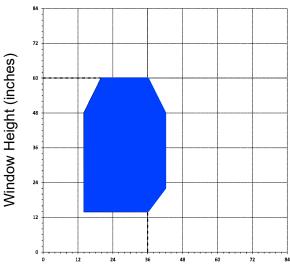




Projected Out with Pivot Shoe **Roto-Operator**



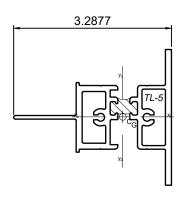
Casement with Concealed Four Bar Casement Arm & Multi Point Locks



Window Width (inches)

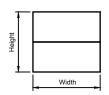
- Dashed line represents the gateway size window as tested by AAMA.
- All vent sizes are based upon 1" Insulated glass consisting of \(\frac{1}{4} \)" glass -\(\frac{1}{2} \)" air -\(\frac{1}{4} \)" glass.
- Any vent size outside of the AAMA Gateway tested size may have reduced performance.
- Chart assumes the window has been installed in a properly prepared opening by a qualified
- 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 14" x 14" with standard cam locks and 4-bar hinges.
- 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.

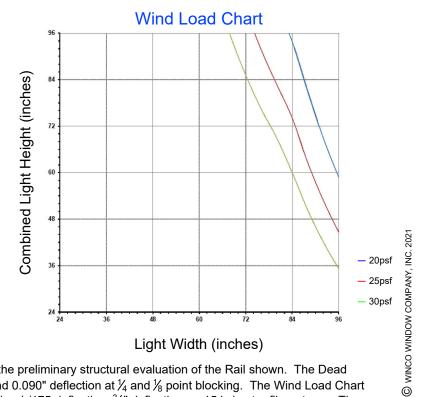




Section Properties

	X-X	Y-Y				
Ι	0.8702in ⁴	0.3887in ⁴				
S	0.3829 in ³	0.2733 in ³				



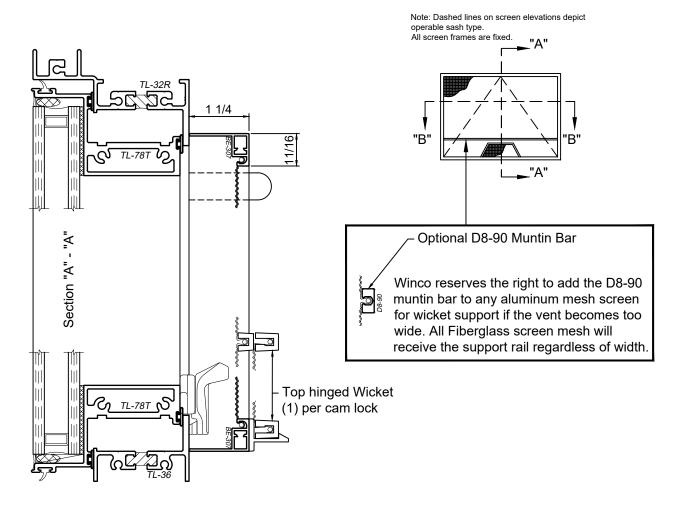


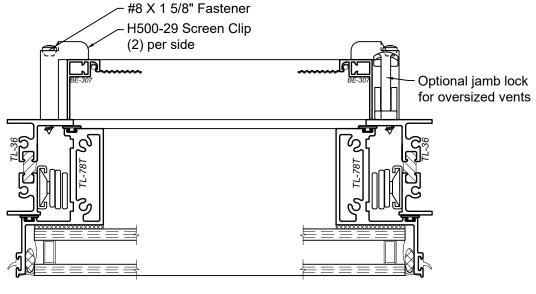
This chart can be used as a guideline for the preliminary structural evaluation of the Rail shown. The Dead Load chart is based on $\frac{1}{4}$ " - $\frac{1}{2}$ " - $\frac{1}{4}$ " I.G. and 0.090" deflection at $\frac{1}{4}$ and $\frac{1}{8}$ point blocking. The Wind Load Chart is based upon the minimum result from either L/175 deflection, $\frac{3}{4}$ " 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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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.

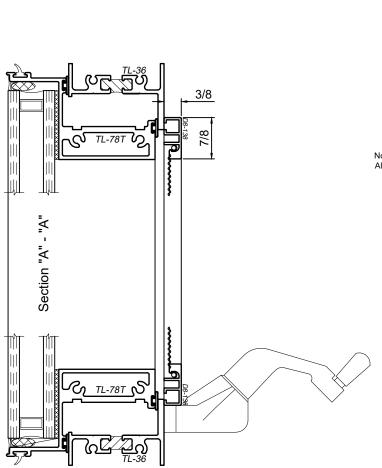


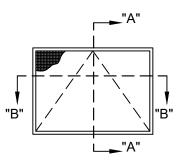


Section "B" - "B"

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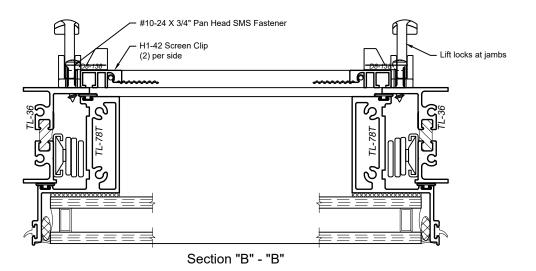




Note: Dashed lines on screen elevations depict operable sash type All screen frames are fixed

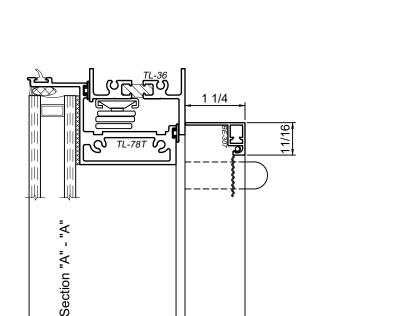
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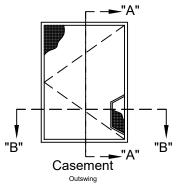


SCALE 6"=1'-0"

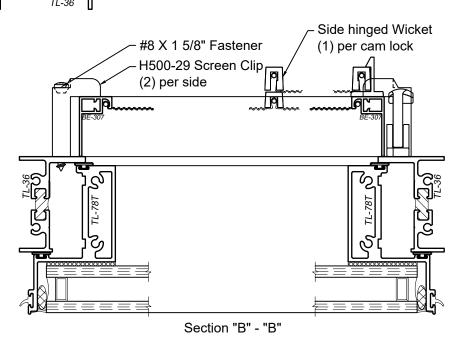
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TL-78T_S



Note: Dashed lines on screen elevations depict operable sash type. All screen frames are fixed





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