

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

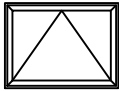





Product Information



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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.

<p>Project Out Awning (PO)</p>  <p>NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 120 Air Infiltration: <0.02 CFM Water Infiltration Resistance: > 12 psf</p> <p>Can be Configured for ADA Compliance <input type="checkbox"/> Not-Applicable <input checked="" type="checkbox"/> Yes</p> <p>Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 <input checked="" type="checkbox"/> Not Rated <input type="checkbox"/> Missile "D" <input type="checkbox"/> Missile "E"</p> <p>Product Type may be configured for Blast Resistant Installation <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes⁶</p>	 <p>$U_{COG}=0.20$ Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Low-E No.4 example: SNX 62/27 or Solarban70 + IS20 or Sungate Therml</p>	<p>NFRC Size¹ 59" x 24" $U_{Window}=0.42$ Btu/h-ft²-°f²</p>	
	<p>NAFS Size³ 60" x 36" $U_{Window}=0.36$ Btu/h-ft²-°f⁴</p>	<p>CRF= 63 (AAMA 1503)⁵</p>	
	 <p>$U_{COG}=0.24$ Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70</p>	<p>NFRC Size¹ 59" x 24" $U_{Window}=0.45$ Btu/h-ft²-°f²</p>	
	<p>NAFS Size³ 60" x 36" $U_{Window}=0.40$ Btu/h-ft²-°f⁴</p>	<p>CRF= 63 (AAMA 1503)⁵</p>	
	 <p>$U_{COG}=0.29$ Btu/hr-ft²-°F Double Silver Low-E #2 x 100% Air x Uncoated example: SN-68 or Solarban60</p>	<p>NFRC Size¹ 59" x 24" $U_{Window}=0.49$ Btu/h-ft²-°f²</p>	
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This Information is based on current product design, sealed dual glazing, warm edge spacers and testing standards. Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product. Please contact WINCO for project specific information.

¹ NFRC 101 Test & Rating Size

² Based on NFRC 100/200/500 Rating and LBNL Window 7.8 Simulations following NFRC Protocols

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

⁶ Blast Resistant Configuration is highly dependant on Product Size, Blast Design Load(s) and Project Specific Glass, Frame & Connection Response (Required Level of Protection, Allowable Hazard Level)

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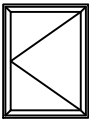





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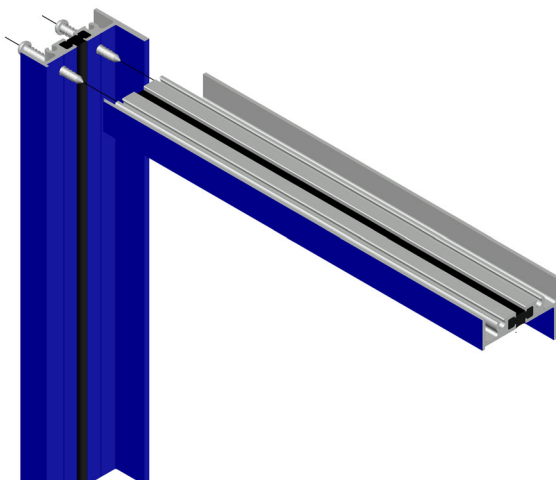
CONSTRUCTION

MATERIAL - The Series 3325 window is a 3-1/4" deep frame depth with a nominal wall thickness of .125 inch. All material is extruded from 6063-T6 alloy.

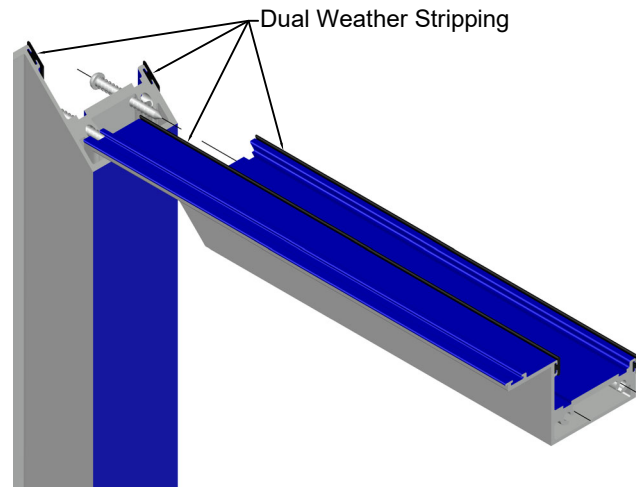
THERMAL BREAK - All framing members of the window system are thermally broken. Winco uses the Azon Azo Brader® process to mechanically condition the surface of the thermal cavity. The process runs the entire length of the extrusion and creates serrations that ensure proper adhesion of the structural 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 505-17.

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.



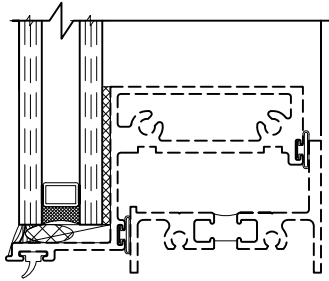
(fig 1) Main Frame Construction



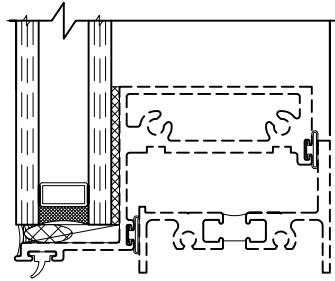
(fig 2) Vent Construction

GLAZING

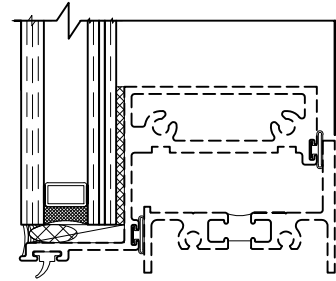
The windows is structurally glazed from the building exterior without glazing beads accommodating Insulated Glass Unit (I.G.U.) thickness ranging from 7/8" nominal 1" nominal.



7/8" Glazing
(No Bead used)



1" Glazing
(No Bead used)



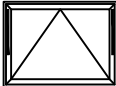
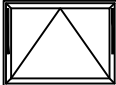
1" Glazing w/ laminated lite
(No Bead used)

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HARDWARE - Awning Configurations

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.

	<p>Project Out Awning (PO) w/ Default Hardware Kit</p> <p>Stainless Steel 4-Bar Hinges PO Cam Lock(s) ¹</p>	<p><u>Optional Hardware Accessories:</u> Additional Jamb Mounted Lift Locks Access Control Cam Locks Additional Access Control Jamb Mounted Lift Locks Pole Ring Cam Lock(s) ¹ Pole Ring Additional Pole Ring Lift Locks Non-Removable Limit Stop Key-Release Limit Stop Under-Screen Push bar ^{2,3}</p>
	<p>Project Out Awning (PO) w/ Roto Operator</p> <p>Stainless Steel 4-Bar Hinge Jamb Mounted Lift Locks Pivot Shoe Roto Operator</p>	<p><u>Optional Hardware Accessories:</u> Pole Ring Lift Lock</p> <p>Non-Removable Limit Stop</p>

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Please contact WINCO for project specific information

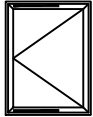
¹ Lock Quantity is dependent on Operable Vent Width & Height, Additional Locks can be specified, but minimum Qty is determined by WINCO Engineering

² Under Screen Push Bar is subject to minimum Vent Width

³ Under Screen Push Bars are not recommended by WINCO if Optimum Water Penetration or Air Infiltration Performance is required

HARDWARE - Casement Configurations

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.

	<p>Project Out Casement (POC) w/ Concealed Hinges</p> <p>Stainless Steel 4-Bar Casement Hinges Single Point or Multi-Point Lift Lock(s)¹</p>	<p><u>Optional Hardware Accessories:</u> Casement Roto Operator⁴ Access Control Lift Locks Pole Ring Lift Lock(s)¹ Pole Ring Non-Removable Limit Stop Key-Release Limit Stop</p>
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³ Under Screen Push Bars are not recommended by WINCO if Optimum Water Penetration or Air Infiltration Performance is required

⁴ Combination of Casement Roto Operator and Concealed Hinges requires minimum Operable Vent Width to accommodate Hardware

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.

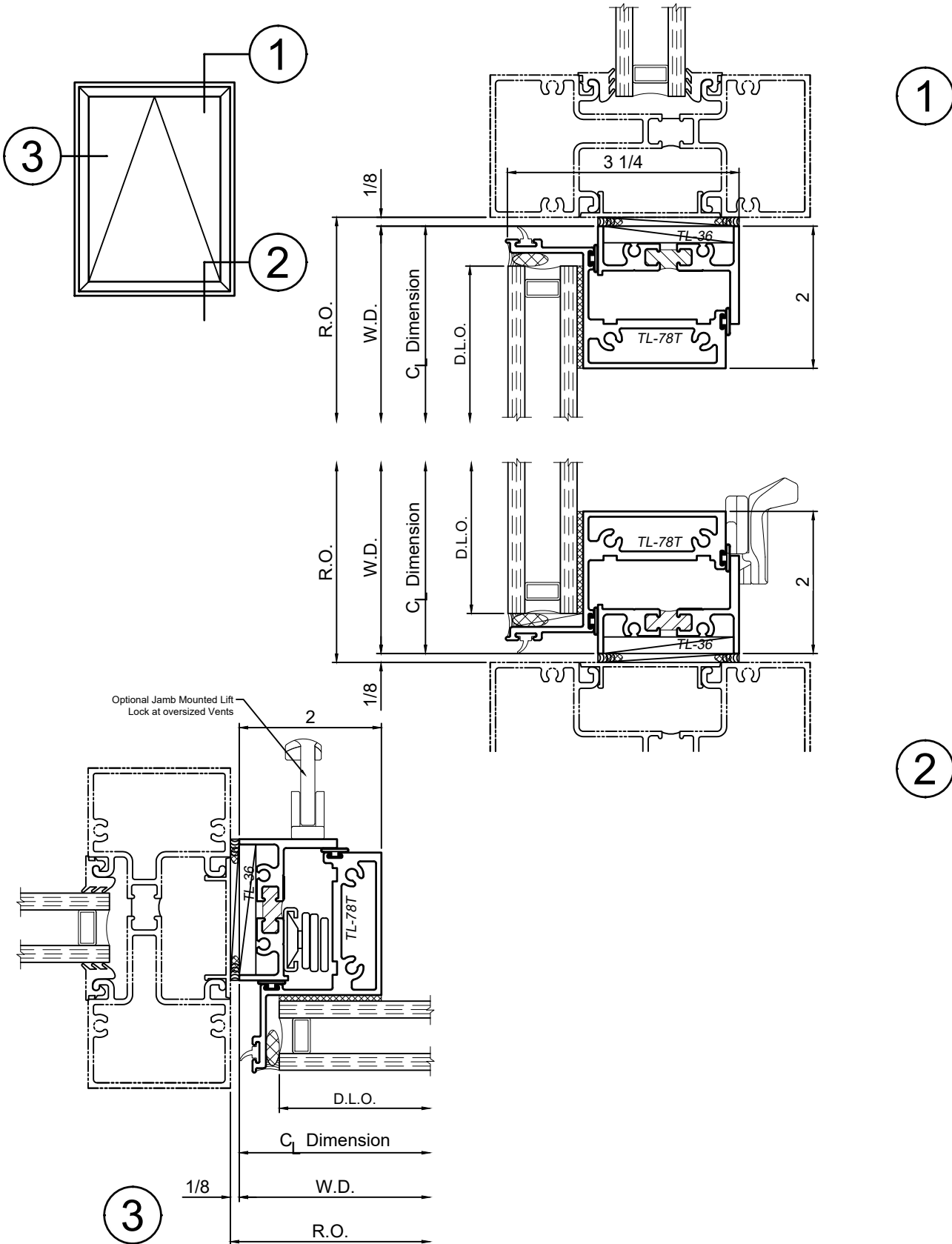
MESH - Standard 0.011" aluminum screen wire mesh is produced from 5154 alloy with 18x16 pattern in Charcoal or Aluminum color. All mesh is applied to the screen frame with a roller spline making for easy and quick replacements. Optional fiberglass or 0.009" stainless steel mesh is available as an option.

3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Storefront - 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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SCALE 6"=1'-0"

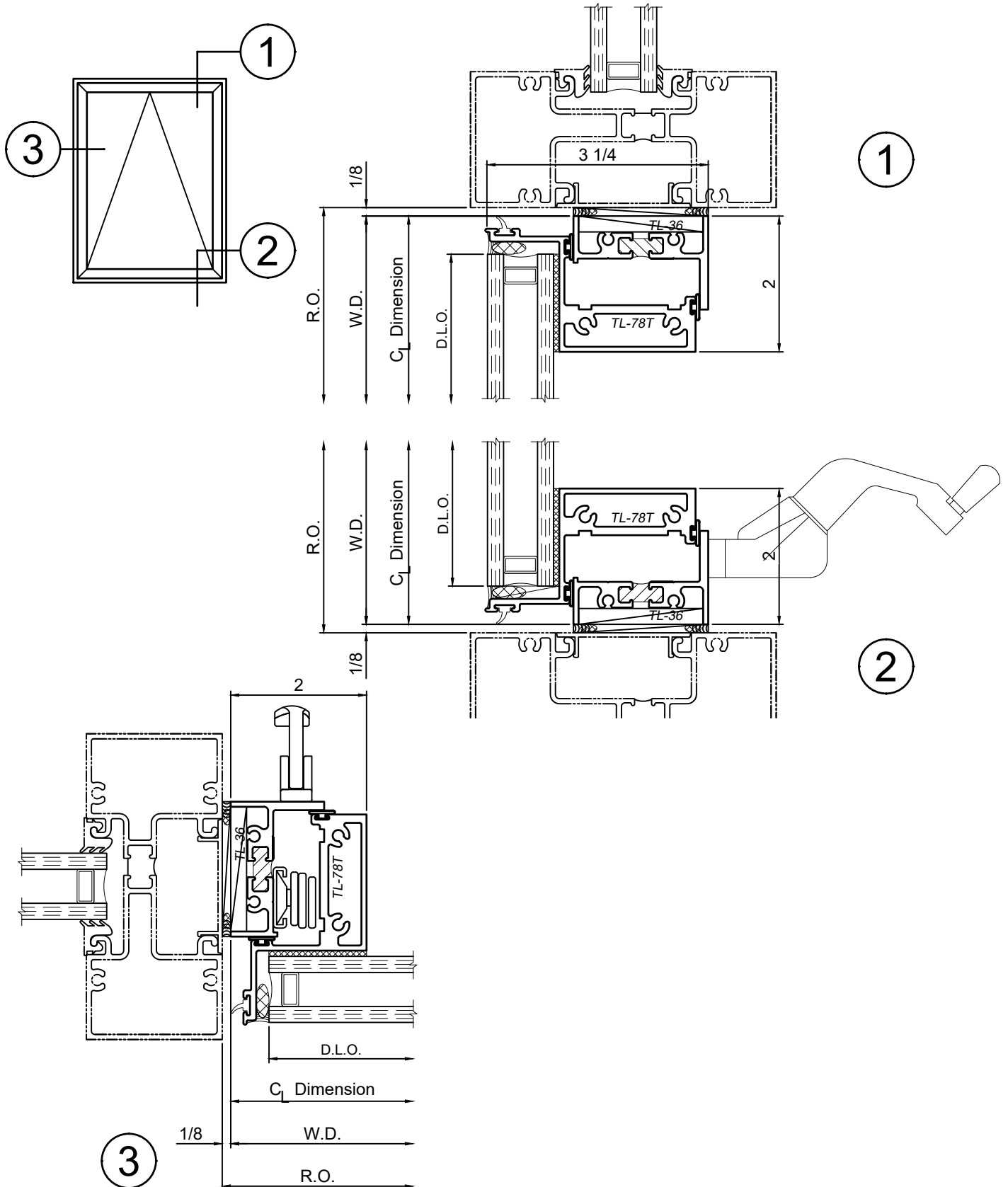
3325 Series 3-1/4" Thermal Casement & Projected Windows Product Details - Storefront - PO Awning w/ Roto Operator



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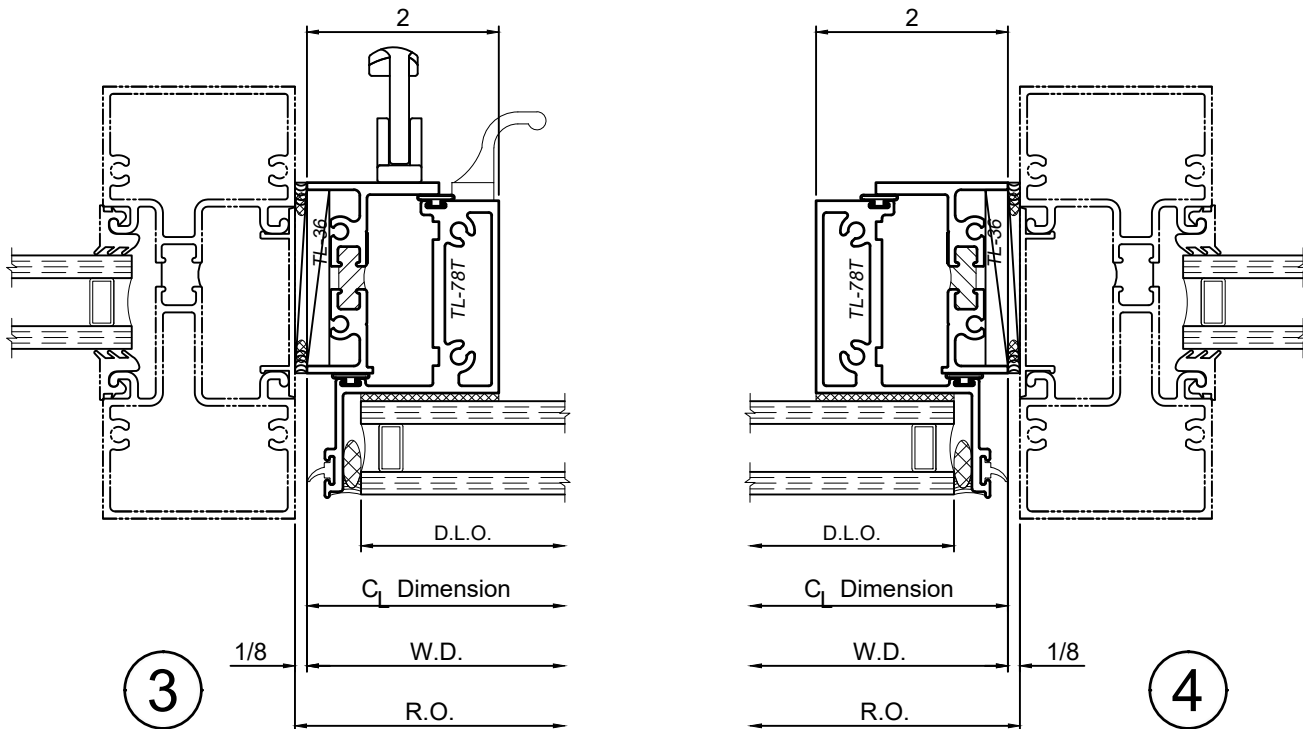
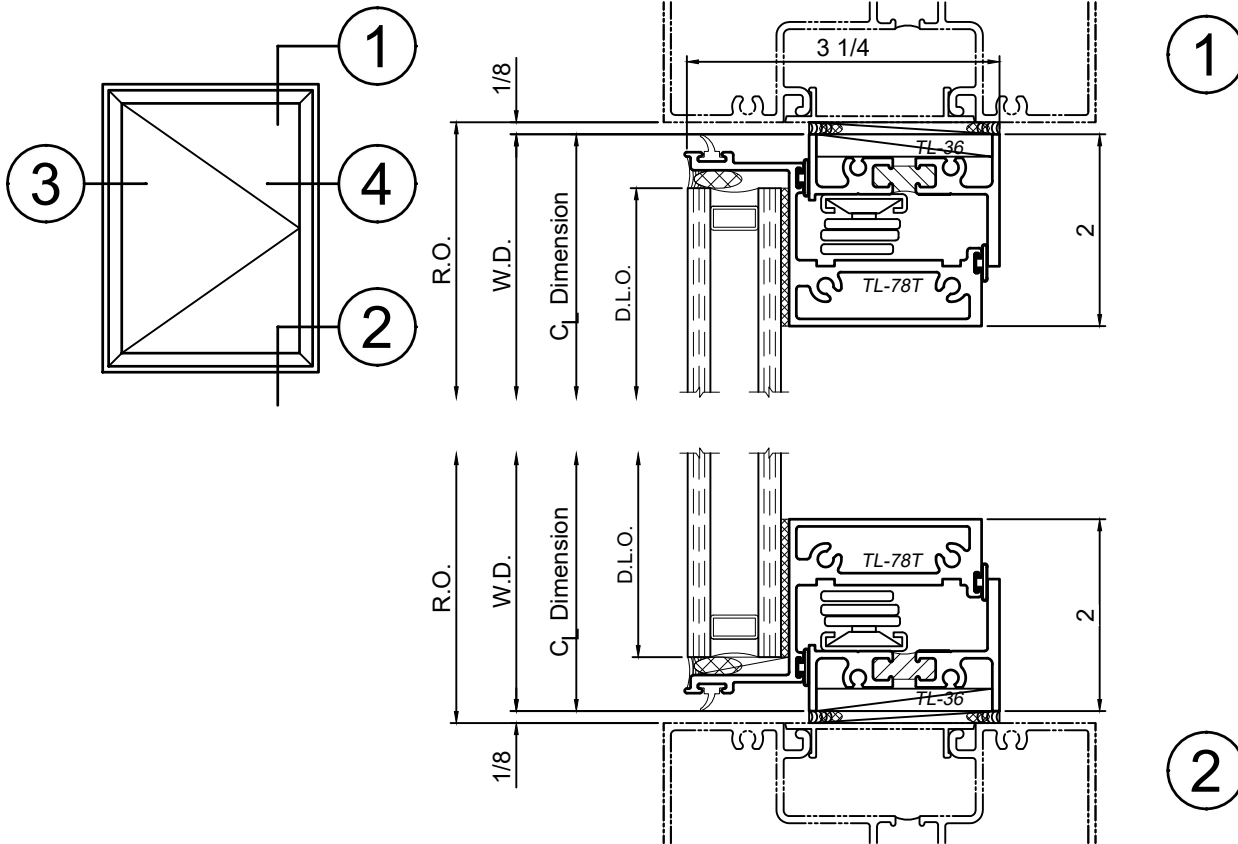
3325 Series 3-1/4" Thermal Casement & Projected Windows

Product Details - Storefront - Outswing Casement



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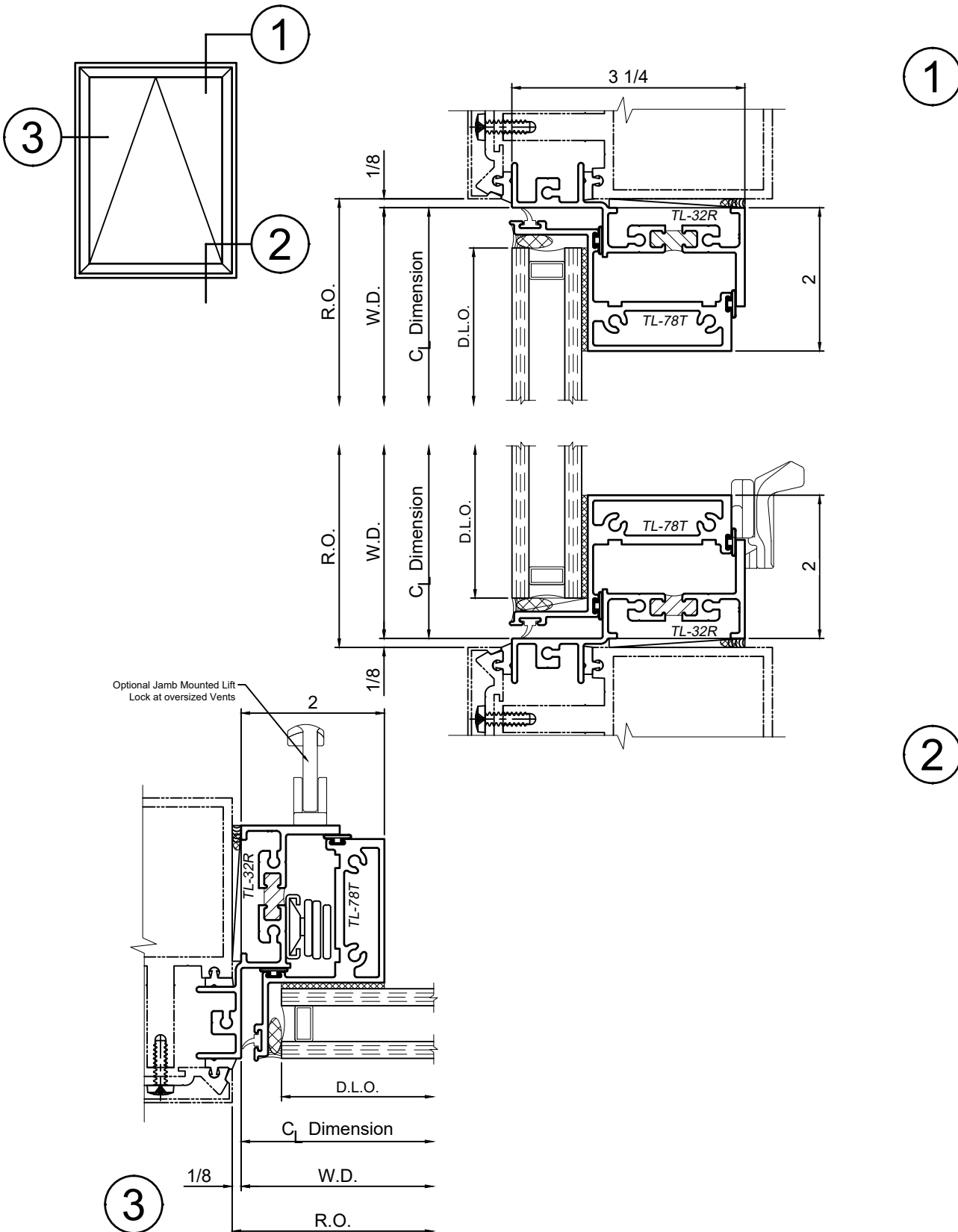
SCALE 6"=1'-0"

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



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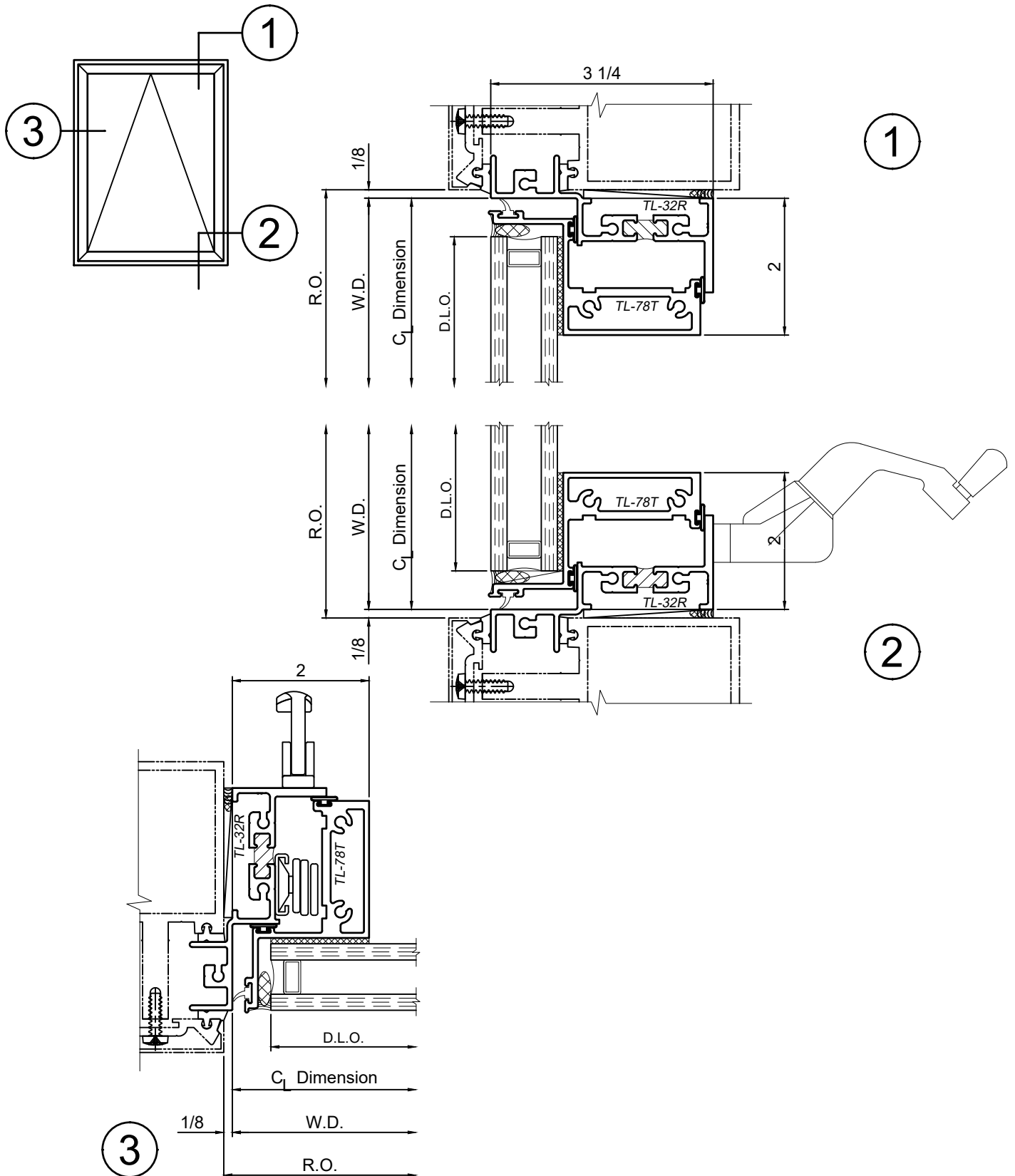
SCALE 6"=1'-0"

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



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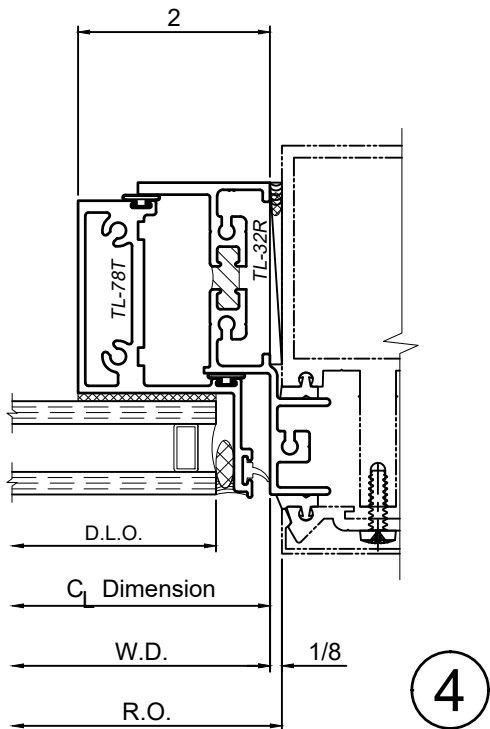
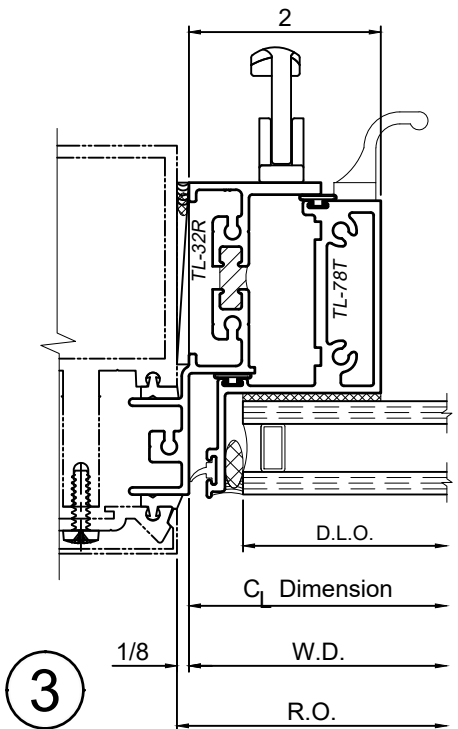
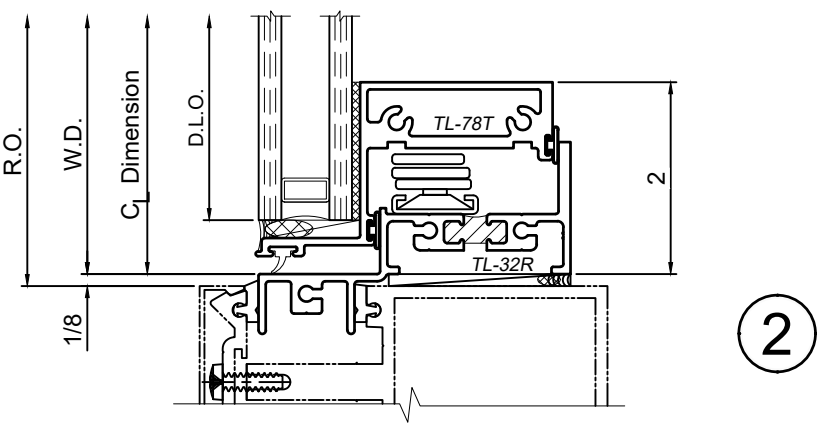
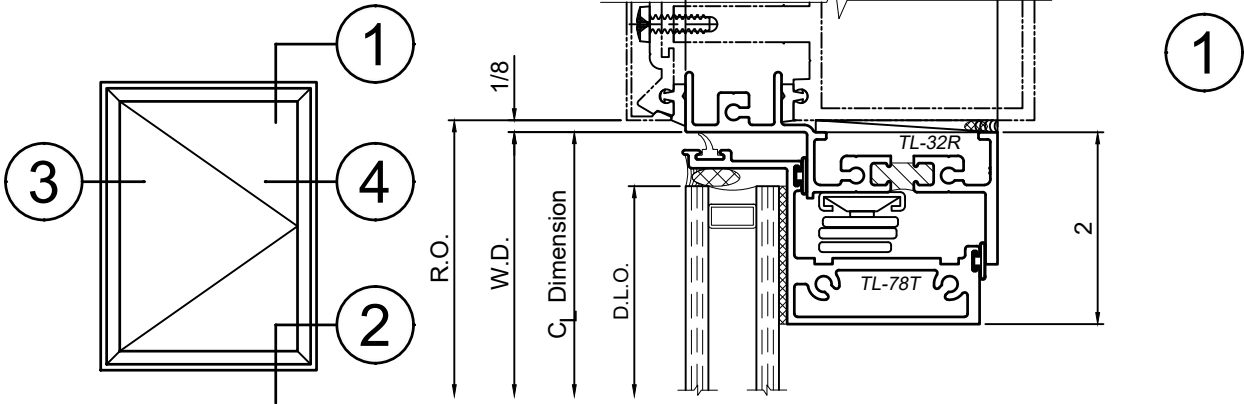
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Product Details - Curtain Wall - Outswing Casement



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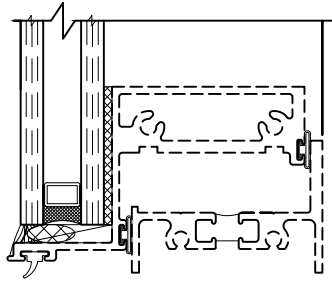
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Product Details - Glazing Options

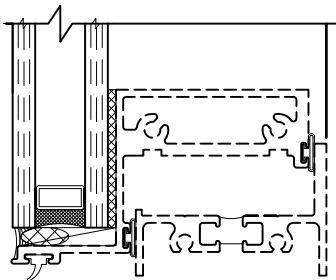


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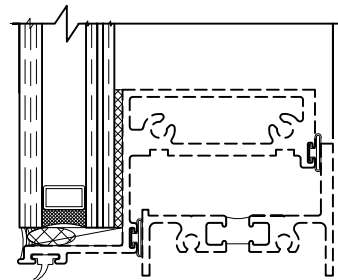
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7/8" Glazing
(No Bead used)



1" Glazing
(No Bead used)



1" Glazing w/ laminated lite
(No Bead used)

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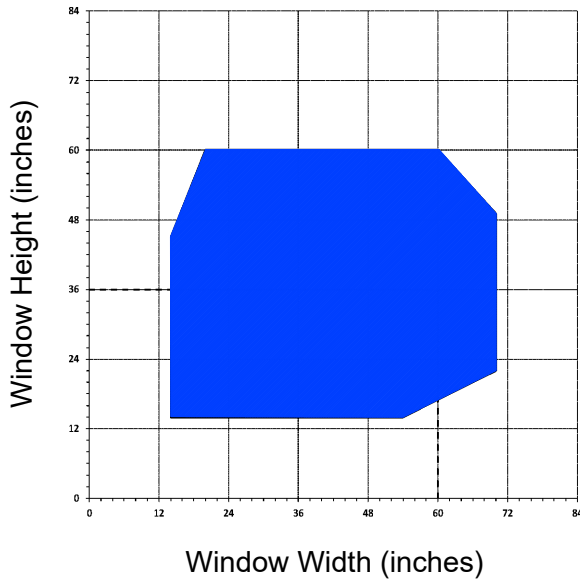
3325 Series 3-1/4" Thermal Casement & Projected Windows

Projected Vent Size Capabilities Charts

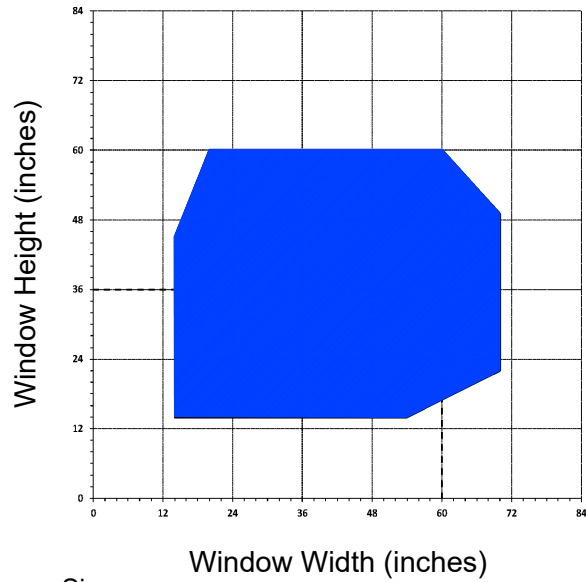


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Projected Out with Four Bar Arms

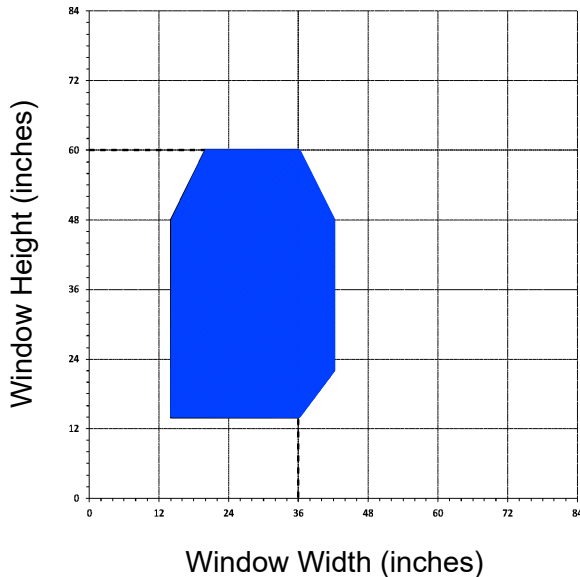


Projected Out with Pivot Shoe Roto-Operator



----- AAMA Gateway Size

Casement with Concealed Four Bar Casement Arm & Multi Point Locks



- 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 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.

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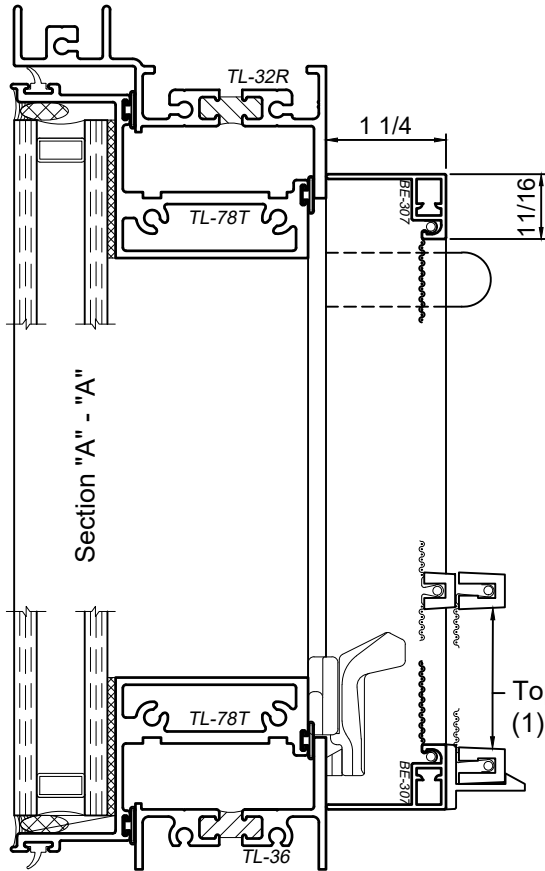
3325 Series 3-1/4" Thermal Casement & Projected Windows

Product Details - Screen Options - PO - Awning

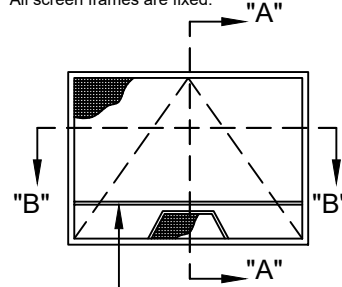


Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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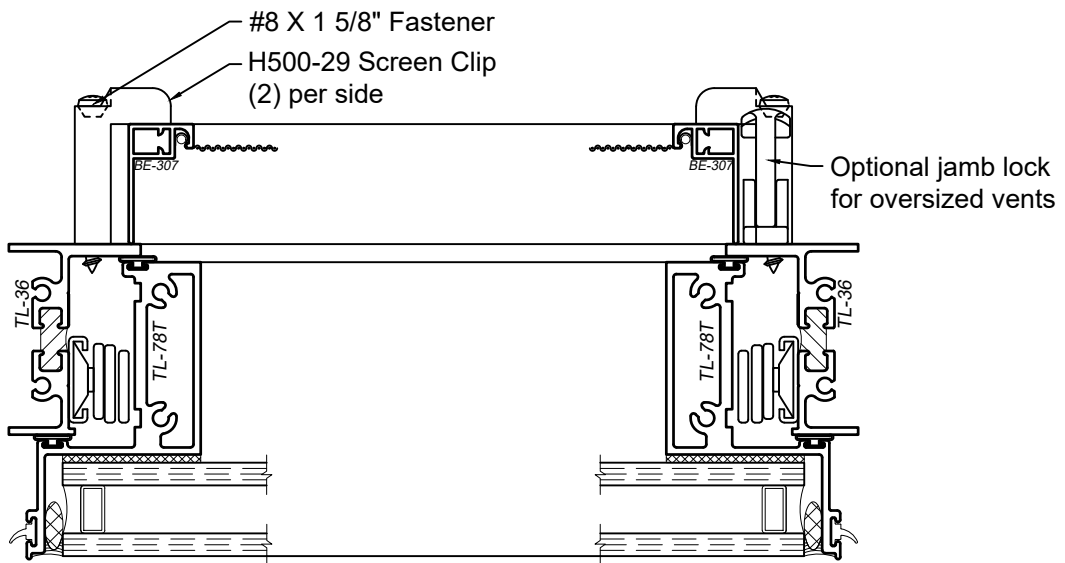


Note: Dashed lines on screen elevations depict operable sash type.
All screen frames are fixed.



Optional D8-90 Muntin Bar

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.



Section "B" - "B"

SCALE 6"=1'-0"

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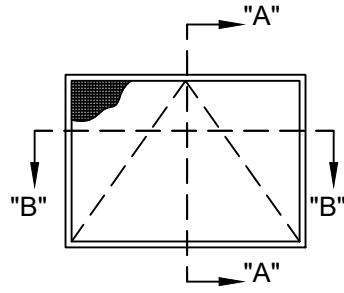
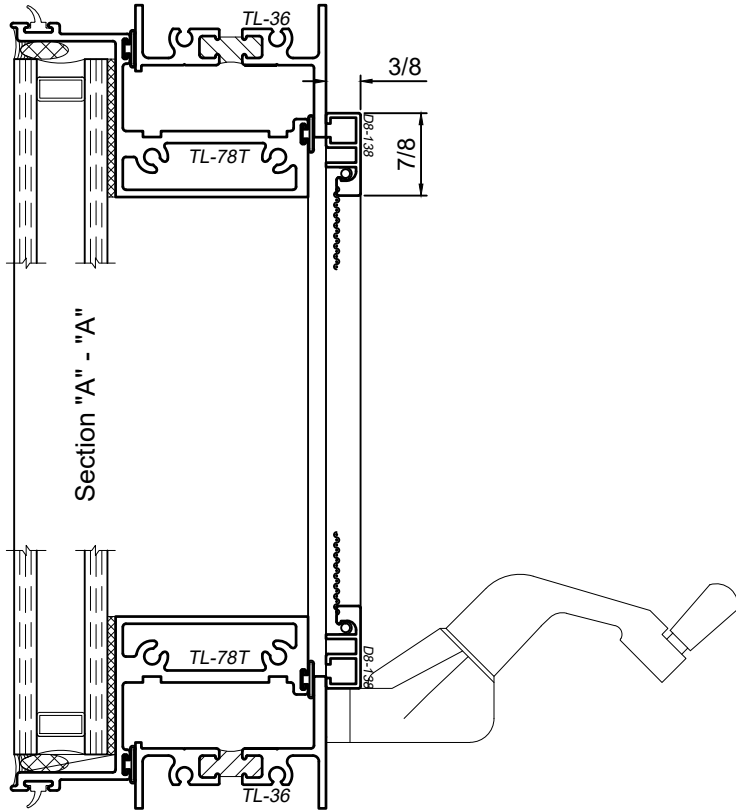
3325 Series 3-1/4" Thermal Casement & Projected Windows

Product Details - Screen Options - PO - Awning w/ Roto Operator

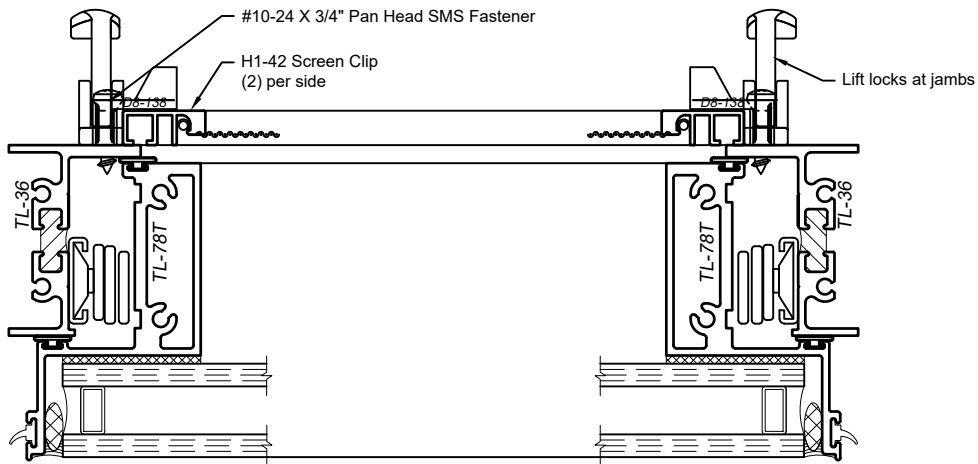


Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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



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SCALE 6"=1'-0"

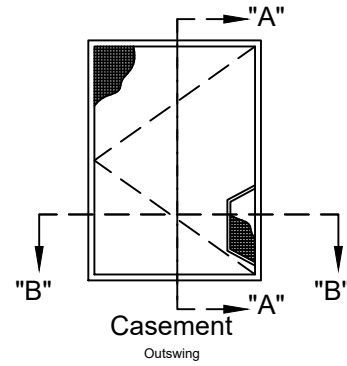
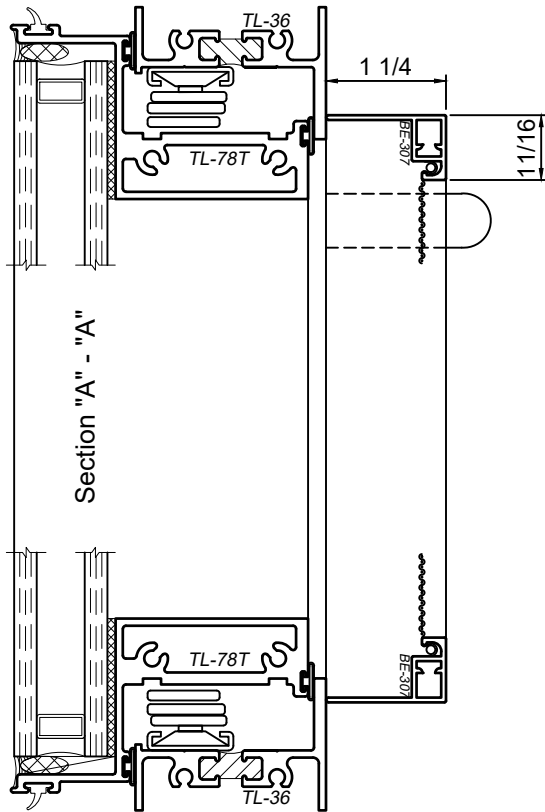
3325 Series 3-1/4" Thermal Casement & Projected Windows

Product Details - Screen Options - Outswing Casement

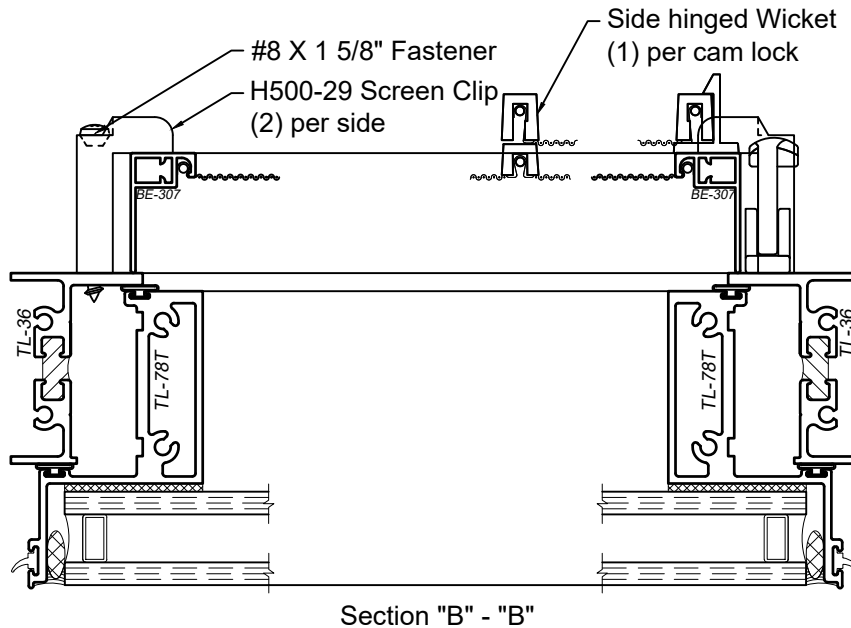


Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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



SCALE 6"=1'-0"