

# 8800 Series 4" Thermal Fixed Human Impact Windows







## Product Information - Primary Window w/ Laminated Impact Panel



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### PERFORMANCE

The Series 8800 window is a thermally broken mainframe that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows. The system w/ Human Impact Sash is tested to AAMA 501.8.

<p>Fixed (Picture Window)</p>  <p>AAMA 501.8 Impact Rating 2,000ft-lb<sub>Force</sub> Maximum Size 54" x 84"</p> <p>NAFS / AAMA 101 Test Size 60" x 99" Class: AW Performance Grade: 100 Air Infiltration: &lt;0.0 CFM Water Infiltration Resistance: &gt; 15 psf</p> <p>Can be Configured for ADA Compliance <input checked="" type="checkbox"/> Not-Applicable <input type="checkbox"/> Yes</p> <p>Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 <input type="checkbox"/> Not Rated <input checked="" type="checkbox"/> Missile "D" <input checked="" type="checkbox"/> Missile "E"</p> <p>Product Type may be configured for Blast Resistant Installation <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes<sup>6</sup></p>	 <p><math>U_{COG}=0.20</math> Btu/hr-ft<sup>2</sup>-°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 Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.31</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.28</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 64 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.24</math> Btu/hr-ft<sup>2</sup>-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70</p>
	<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.34</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.31</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 64 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.29</math> Btu/hr-ft<sup>2</sup>-°F Double Silver Low-E #2 x 100% Air x Uncoated example: SN-68 or Solarban60</p>
	<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.38</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.36</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 64 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.34</math> Btu/hr-ft<sup>2</sup>-°F Single Silver Low-E #2 x 100% Air x Uncoated example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)</p>
	<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.42</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.40</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= __ (AAMA 1503)<sup>5</sup></p>
 <p><math>U_{COG}=0.47</math> Btu/hr-ft<sup>2</sup>-°F Uncoated x 100% Air x Uncoated example: Clear over Clear (Air, Aluminum Box-Spacer)</p>	
<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.52</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>	
<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.51</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= __ (AAMA 1503)<sup>5</sup></p>	

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.

<sup>1</sup> NFRC 101 Test & Rating Size

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

<sup>3</sup> AAMA 101 (NAFS) Gateway Test Size

<sup>4</sup> Based on LBNL Window Simulations following NFRC Protocols

<sup>5</sup> AAMA 101 Test Size and AAMA 1503 Test Protocol

<sup>6</sup> 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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# 8800 Series 4" Thermal Fixed Human Impact Windows







## Product Information - Primary Window w/ Polycarbonate Impact Panel



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### PERFORMANCE

The Series 8800 window is a thermally broken mainframe that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows. The system w/ Human Impact Sash is tested to AAMA 501.8.

<p>Fixed (Picture Window)</p>  <p>AAMA 501.8 Impact Rating 2,000ft-lb<sub>Force</sub> Maximum Size 54" x 84"</p> <p>NAFS / AAMA 101 Test Size 60" x 99" Class: AW Performance Grade: 100 Air Infiltration: &lt;0.0 CFM Water Infiltration Resistance: &gt; 15 psf</p> <p>Can be Configured for ADA Compliance <input checked="" type="checkbox"/> Not-Applicable <input type="checkbox"/> Yes</p> <p>Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 <input type="checkbox"/> Not Rated <input checked="" type="checkbox"/> Missile "D" <input checked="" type="checkbox"/> Missile "E"</p> <p>Product Type may be configured for Blast Resistant Installation <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes<sup>6</sup></p>	 <p><math>U_{COG}=0.20</math> Btu/hr-ft<sup>2</sup>-°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 Size<sup>1</sup> 47" x 59" <math>U_{Window}=0.28</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p> <p>NAFS Size<sup>3</sup> 60" x 99" <math>U_{Window}=0.25</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 67 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.24</math> Btu/hr-ft<sup>2</sup>-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70</p>	<p>NFRC Size<sup>1</sup> 47" x 59" <math>U_{Window}=0.31</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p> <p>NAFS Size<sup>3</sup> 60" x 99" <math>U_{Window}=0.29</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 67 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.29</math> Btu/hr-ft<sup>2</sup>-°F Double Silver Low-E #2 x 100% Air x Uncoated example: SN-68 or Solarban60</p>	<p>NFRC Size<sup>1</sup> 47" x 59" <math>U_{Window}=0.35</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p> <p>NAFS Size<sup>3</sup> 60" x 99" <math>U_{Window}=0.33</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 67 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.34</math> Btu/hr-ft<sup>2</sup>-°F Single Silver Low-E #2 x 100% Air x Uncoated example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)</p>	<p>NFRC Size<sup>1</sup> 47" x 59" <math>U_{Window}=0.39</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p> <p>NAFS Size<sup>3</sup> 60" x 99" <math>U_{Window}=0.37</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= -- (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.47</math> Btu/hr-ft<sup>2</sup>-°F Uncoated x 100% Air x Uncoated example: Clear over Clear (Air, Aluminum Box-Spacer)</p>	<p>NFRC Size<sup>1</sup> 47" x 59" <math>U_{Window}=0.49</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p> <p>NAFS Size<sup>3</sup> 60" x 99" <math>U_{Window}=0.48</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= -- (AAMA 1503)<sup>5</sup></p>

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.

<sup>1</sup> NFRC 101 Test & Rating Size

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

<sup>3</sup> AAMA 101 (NAFS) Gateway Test Size

<sup>4</sup> Based on LBNL Window Simulations following NFRC Protocols

<sup>5</sup> AAMA 101 Test Size and AAMA 1503 Test Protocol

<sup>6</sup> 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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




## Product Information - Primary Window w/ out Impact Panel



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### PERFORMANCE

The Series 8800 window is a thermally broken mainframe that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows. The system w/ Human Impact Sash is tested to AAMA 501.8.

<p>Fixed (Picture Window)</p>  <p>AAMA 501.8 Impact Rating N/A ft-lb<sub>Force</sub> Maximum Size " x "</p> <p>NAFS / AAMA 101 Test Size 60" x 99" Class: AW Performance Grade: 100 Air Infiltration: &lt;0.0 CFM Water Infiltration Resistance: &gt; 15 psf</p> <p>Can be Configured for ADA Compliance <input checked="" type="checkbox"/> Not-Applicable <input 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"/> Yes<sup>6</sup></p>	 <p><math>U_{COG}=0.20</math> Btu/hr-ft<sup>2</sup>-°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 Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.33</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.29</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 69 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.24</math> Btu/hr-ft<sup>2</sup>-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70</p>
	<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.36</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.33</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 69 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.29</math> Btu/hr-ft<sup>2</sup>-°F Double Silver Low-E #2 x 100% Air x Uncoated example: SN-68 or Solarban60</p>
	<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.40</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.37</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= 69 (AAMA 1503)<sup>5</sup></p>
	 <p><math>U_{COG}=0.34</math> Btu/hr-ft<sup>2</sup>-°F Single Silver Low-E #2 x 100% Air x Uncoated example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)</p>
	<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.44</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>
	<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.41</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= __ (AAMA 1503)<sup>5</sup></p>
 <p><math>U_{COG}=0.47</math> Btu/hr-ft<sup>2</sup>-°F Uncoated x 100% Air x Uncoated example: Clear over Clear (Air, Aluminum Box-Spacer)</p>	
<p>NFRC Size <sup>1</sup> 47" x 59" <math>U_{Window}=0.54</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup>   CI= __ (NFRC 501)<sup>2</sup></p>	
<p>NAFS Size <sup>3</sup> 60" x 99" <math>U_{Window}=0.52</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup>   CRF= __ (AAMA 1503)<sup>5</sup></p>	

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.

<sup>1</sup> NFRC 101 Test & Rating Size

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

<sup>3</sup> AAMA 101 (NAFS) Gateway Test Size

<sup>4</sup> Based on LBNL Window Simulations following NFRC Protocols

<sup>5</sup> AAMA 101 Test Size and AAMA 1503 Test Protocol


<sup>6</sup> 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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## PERFORMANCE

The Series 8800 window is a thermally broken mainframe that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows. The system w/ Human Impact Sash is tested to AAMA 501.8.

<p>Fixed (Picture Window)</p>  <p>AAMA 501.8                  Impact Rating 2,000ft-lb<sub>Force</sub>                  Maximum Size 53" x 83"</p> <p>NAFS / AAMA 101                  Test Size " x "                  Class:                  Not Rated                  Performance Grade:                  N/A                  Air Infiltration:                  &lt; CFM                  Water Infiltration Resistance:                  &gt; psf</p>	<p>Thermal performance results of the Retro-Fit Impact Sash are not possible to predict, calculate, or simulate without knowing the exact geometry, material properties and thermal performance of the existing primary fenestration and the exact placement of the Impact Sash relative to the primary fenestration.</p> <p>Heat build-up between the primary fenestration and Retro-Fit Impact Sash must be expected when the opening is subject to direct sun light. Verification that the primary fenestration's glass is capable of sustaining the resulting thermal stresses is advised.</p>
<p>Can be Configured for ADA Compliance</p> <p><input checked="" type="checkbox"/> Not-Applicable  <input type="checkbox"/> Yes</p>	
<p>Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996</p> <p><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</p> <p><input checked="" type="checkbox"/> No  <input type="checkbox"/> Yes<sup>6</sup></p>	

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.

<sup>1</sup> NFRC 101 Test & Rating Size

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

<sup>3</sup> AAMA 101 (NAFS) Gateway Test Size

<sup>4</sup> Based on LBNL Window Simulations following NFRC Protocols

<sup>5</sup> AAMA 101 Test Size and AAMA 1503 Test Protocol


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<p>Fixed (Picture Window)</p>  <p>AAMA 501.8                  Impact Rating 2,000ft-lb<sub>Force</sub>                  Maximum Size 53" x 83"</p> <p>NAFS / AAMA 101                  Test Size " x "                  Class:                  Not Rated                  Performance Grade:                  N/A                  Air Infiltration:                  &lt; CFM                  Water Infiltration Resistance:                  &gt; psf</p>	<p>Thermal performance results of the Retro-Fit Impact Sash are not possible to predict, calculate, or simulate without knowing the exact geometry, material properties and thermal performance of the existing primary fenestration and the exact placement of the Impact Sash relative to the primary fenestration.</p> <p>Heat build-up between the primary fenestration and Retro-Fit Impact Sash must be expected when the opening is subject to direct sun light. Verification that the primary fenestration's glass is capable of sustaining the resulting thermal stresses is advised.</p>
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<p>Product Type may be configured for Blast Resistant Installation</p> <p><input checked="" type="checkbox"/> No  <input type="checkbox"/> Yes<sup>6</sup></p>	

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.

<sup>1</sup> NFRC 101 Test & Rating Size

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

<sup>3</sup> AAMA 101 (NAFS) Gateway Test Size

<sup>4</sup> Based on LBNL Window Simulations following NFRC Protocols

<sup>5</sup> AAMA 101 Test Size and AAMA 1503 Test Protocol

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### CONSTRUCTION

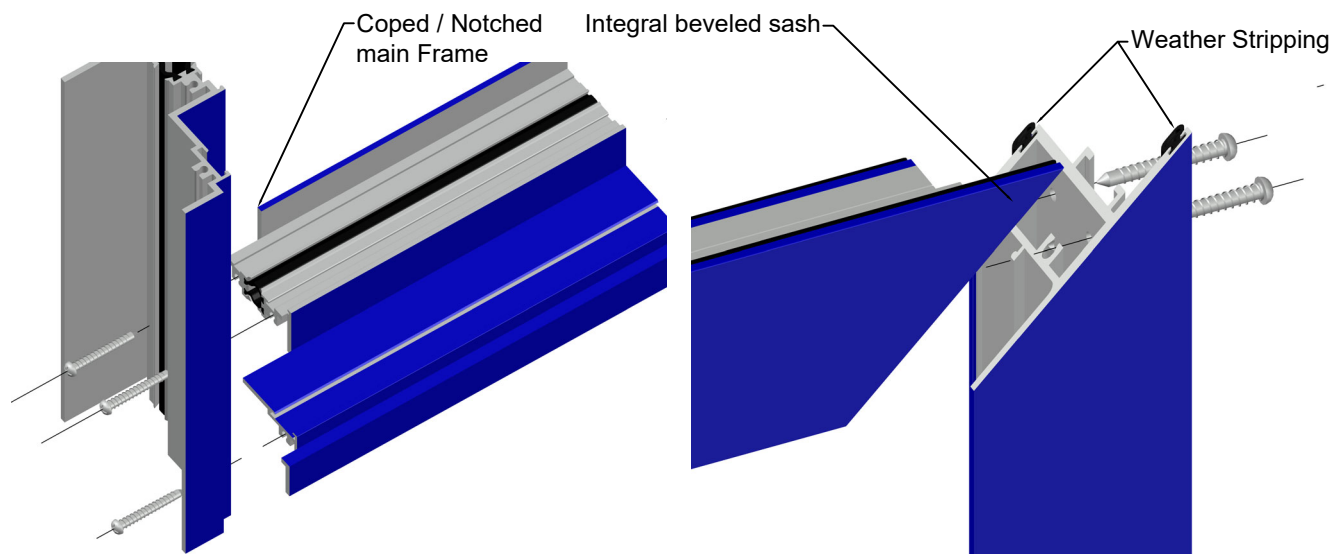
**MATERIAL** - The Series 8800 window is a 4" deep frame depth with a nominal wall thickness of 0.125 inch. All material is extruded from 6063-T6 alloy.

**THERMAL BREAK** - All framing members of the window system are thermally broken. Winco uses polyamide struts for all frame extrusion profiles.

While the Impact Sash may not be divided, optional TB-5 or TB-7 Rails may be used to divide the exterior I.G. into multiple lights. These rails are thermally broken with Azon® urethane. 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 impact sash 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 three stainless steel spline screws per corner (fig 1). The impact sash is a hollow tube shaped extrusion for superior strength and rigidity. Impact sash 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) Impact Sash Construction**

# 8800 Series 4" Thermal Fixed Human Impact Windows

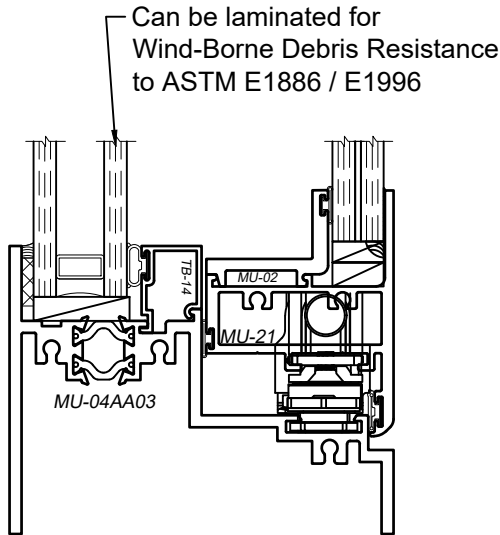
## Product Information - Glazing



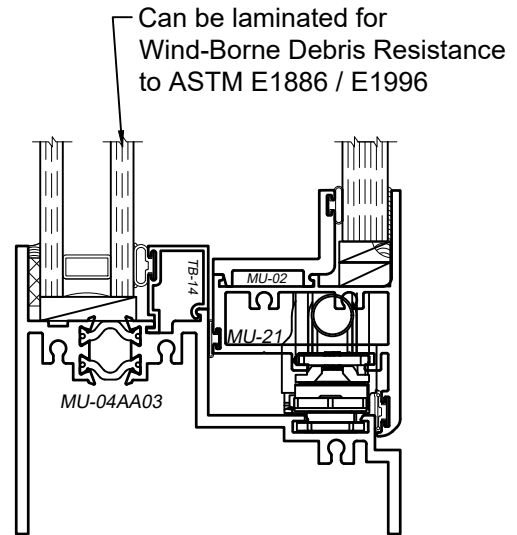
### GLAZING

The windows is interior tripple glazed with .050 thick extruded aluminum glazing beads accommodating for the exterior I.G. of 1". Venetian blinds are available. See the quick reference chart below for all glazing options. For actual details refer to the glazing section in the back of the 8800 section for optional glazing and blind details.

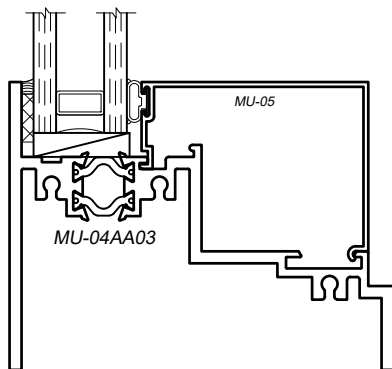
WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



1" Glazing Bead  
TB-14  
9/16" Laminate in Impact  
Sash



1" Glazing Bead  
TB-14  
1/2" Polycarbonate in  
Impact Sash



1" Glazing Bead  
MU-05  
(Not for Human Impact  
Applications)

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### HARDWARE

All 8800 Series windows are fixed. The human impact sash is a hinged configuration with concealed stainless steel hinges and multi point locks. The lock is mounted in a manner to achieve a flush appearance and avoid hardware protrusions to enhance the safety of the product. The blind control knob is a thumb turn design which also does not offer any hardware protrusions.

For an Anti-Ligature configuration as tested and approved by the New York State Office of Mental Health (NYSOMH) an optional closure bar is furnished at the top of the sash with corner fillers which render the top corners of the sash inaccessible and thus reduce the risk of ligature related injury. Closure plates are also furnished to be field applied over the lock penetrations after the window installation is completed. The blind tilt control knob for the NYSOMH Anti-Ligature configuration is WACI No. 5502 (Concealed Mounted) or WACI No. 5504 (Surface Mounted) which will force a string or fabric to slide off under load and does not offer any recesses to wedge any cord or string into. It does feature a 3/4" protrusion which could potentially lead to injury if impacted with a body part. An alternate Blind Control Knob is the Thumb-Wheel WACI No. 5159 (Concealed Mounted) which does not protrude thru the Impact Sash Frame, but requires more user effort to operate.

The NYSOMH configuration includes a GEM Lock. The GEM Lock is in addition to and not in lieu of the standard concealed multi point locks. The standard locks are required to meet AAMA 501.8 Impact testing. The punched passage to the locks is rendered inaccessible via the aforementioned closure plates.

If non-impact resistant windows are desired in addition to AAMA 501.8 Impact Resistant windows, the blind accessory sash can be configured with an alternate glazing bead to house 1/4" nominal glazing infill and optional lift-out hardware. For Human Impact applications, the lift out hardware is not an option at this time.

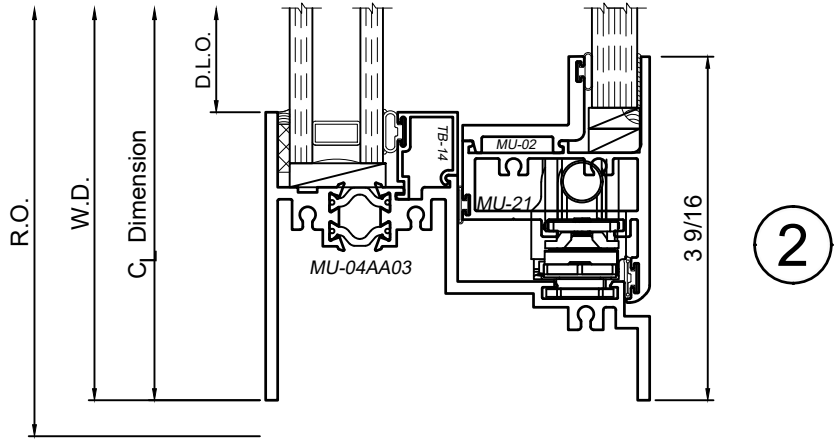
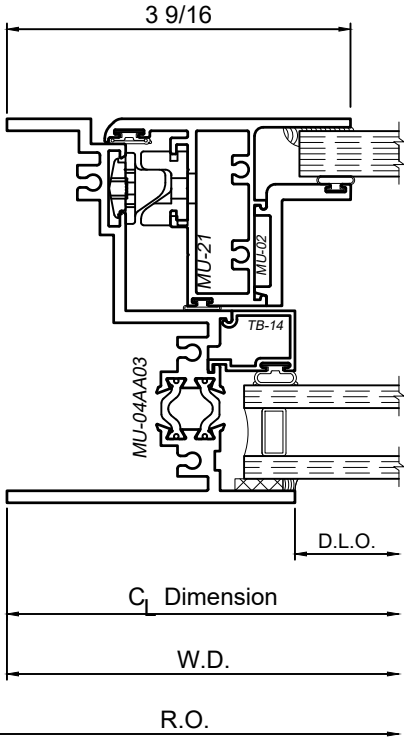
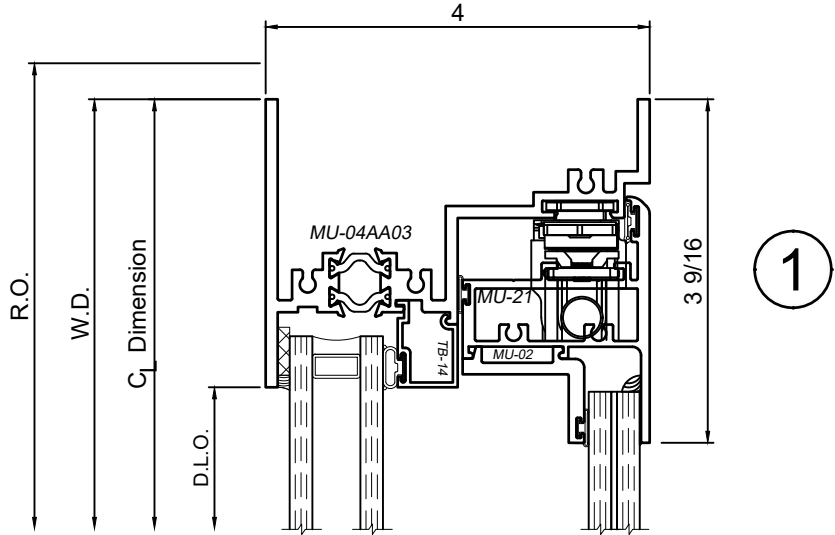
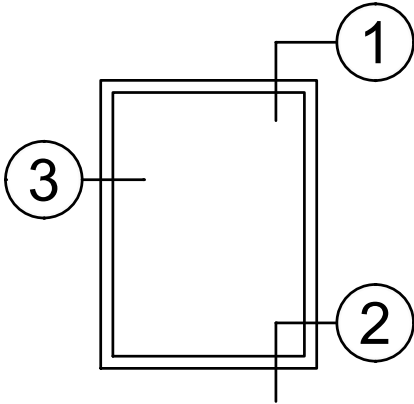
# 8800 Series 4" Thermal Fixed Human Impact Windows

## 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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3

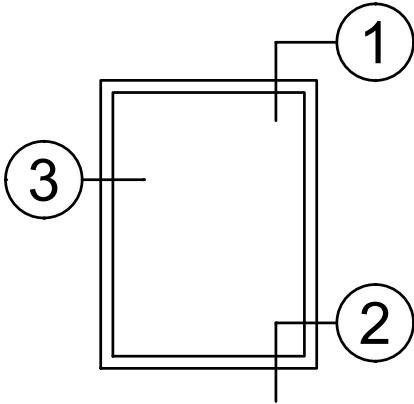
SCALE 6"=1'-0"

# 8800 Series 4" Thermal Fixed Human Impact Windows

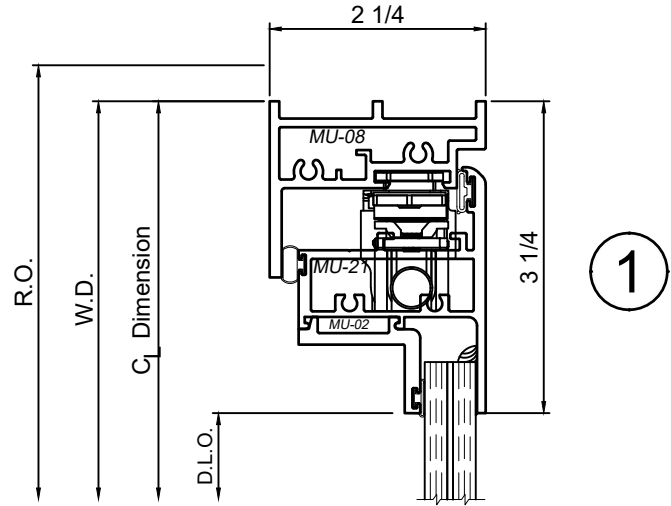
## Product Details - Fixed - Picture Window (Retro Fit Option)



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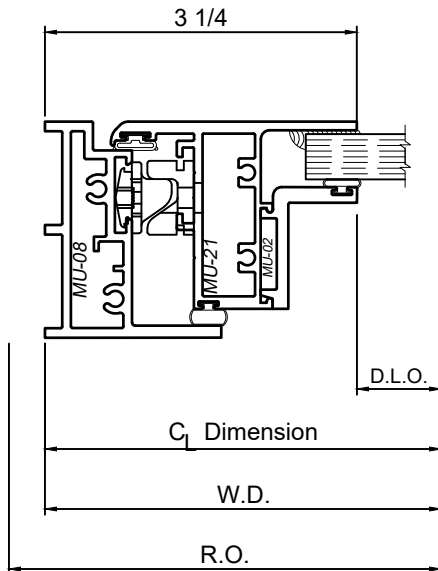


**Note:**  
 The primary (exterior) glazing remains undisturbed by the addition of the 8800 Retro-Fit Impact Sash. It can be accessed for maintenance, but not be used for ventilation.  
 Sealing against intrusion of Air or Water from the building's exterior must be addressed in the primary (exterior) glazing system.

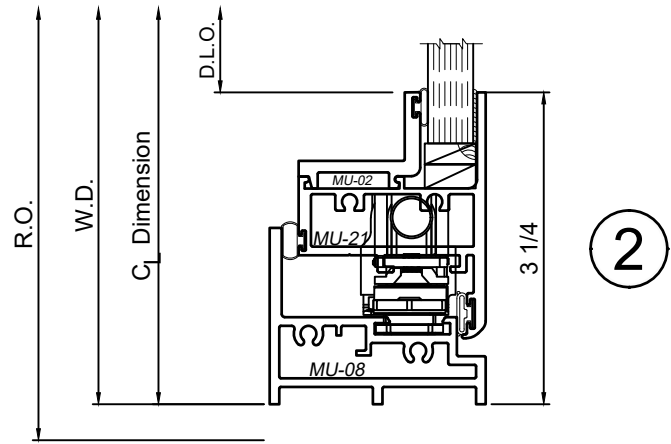


1

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3



2

SCALE 6"=1'-0"

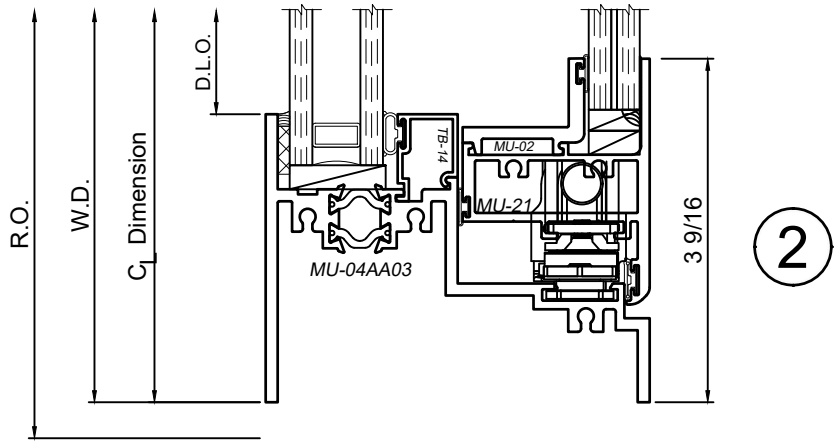
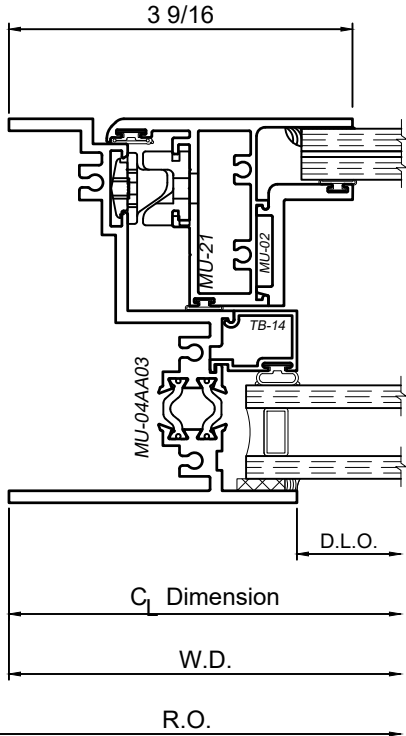
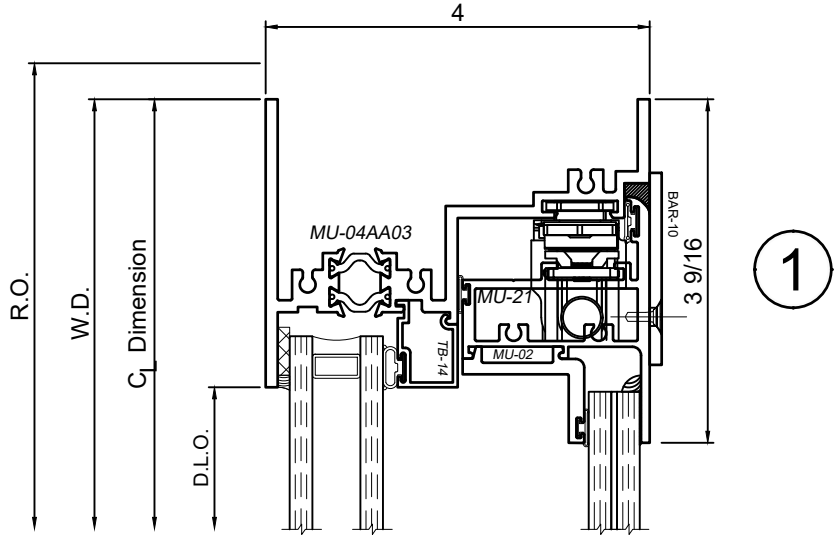
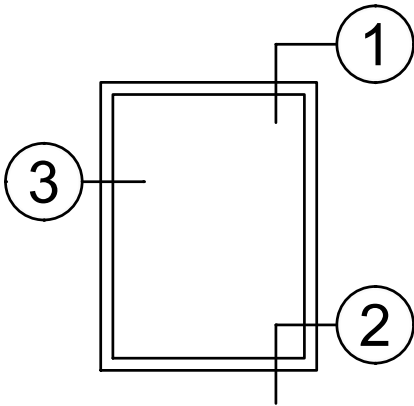
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Fixed - Picture Window - Anti-Ligature Option



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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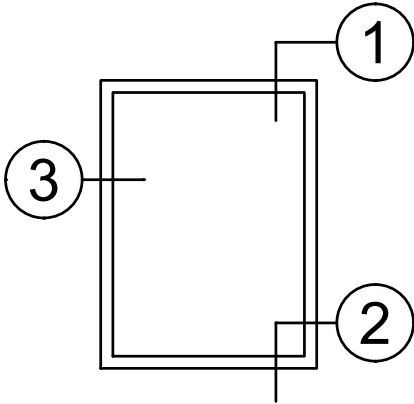
SCALE 6"=1'-0"

# 8800 Series 4" Thermal Fixed Human Impact Windows

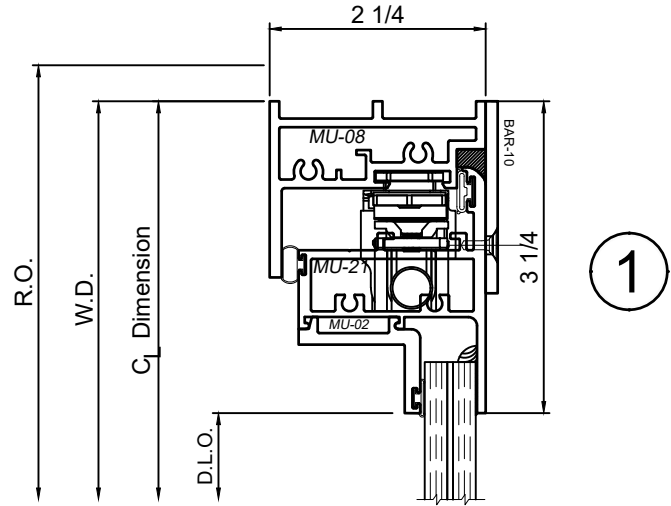
## Product Details - Picture Window (Retro Fit) Anti-Ligature Option



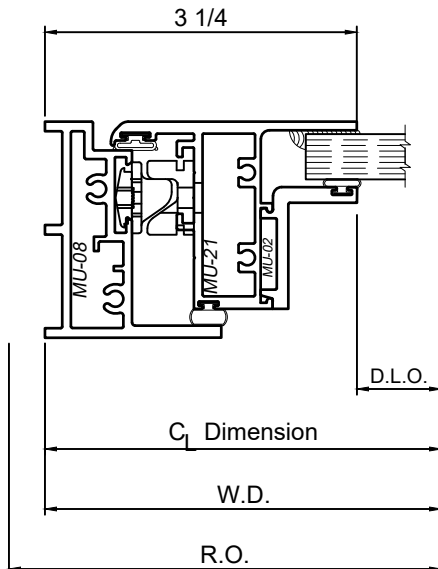
WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



**Note:**  
 The primary (exterior) glazing remains undisturbed by the addition of the 8800 Retro-Fit Impact Sash. It can be accessed for maintenance, but not be used for ventilation.  
 Sealing against intrusion of Air or Water from the building's exterior must be addressed in the primary (exterior) glazing system.



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SCALE 6"=1'-0"

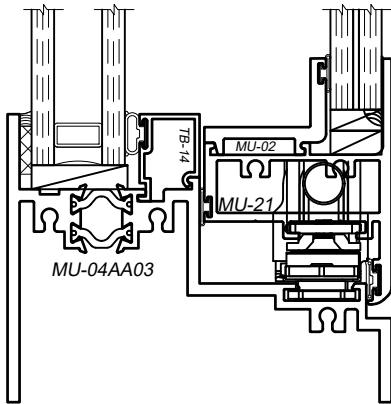
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Glazing Options

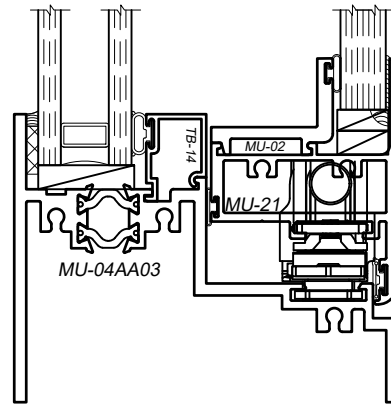


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

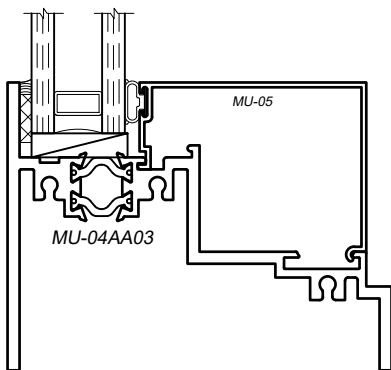
WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



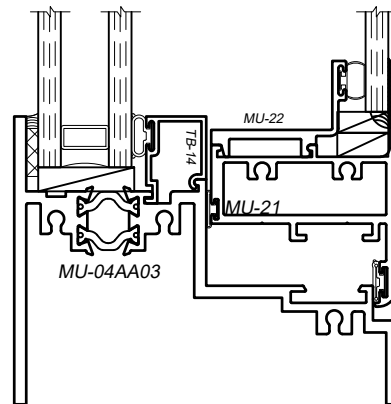
1" Glazing Bead  
TB-14  
9/16" Laminate in Impact  
Sash  
(1,500 ft-lbs Impact Only)



1" Glazing Bead  
TB-14  
1/2" Polycarbonate in  
Impact Sash



1" Glazing Bead  
MU-05  
(Not for Human Impact  
Applications)



1" Glazing Bead  
TB-14  
Non-Impact Glass  
in MU-21 Sash  
(Sash can be Lift-Out or Hinged)

Compatible Glazing Options are:

- 3/16" [5mm] Glass
- 1/4" [6mm] Glass (shown)
- 1/4" [6mm] Polycarbonate
- 1/8"-0.030"-1/8" Laminate
- 1/8"-0.060"-1/8" Laminate

SCALE 6"=1'-0"

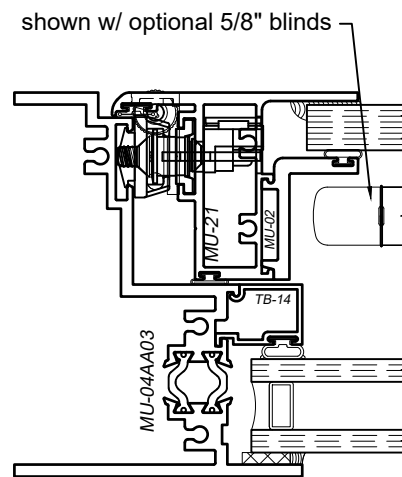
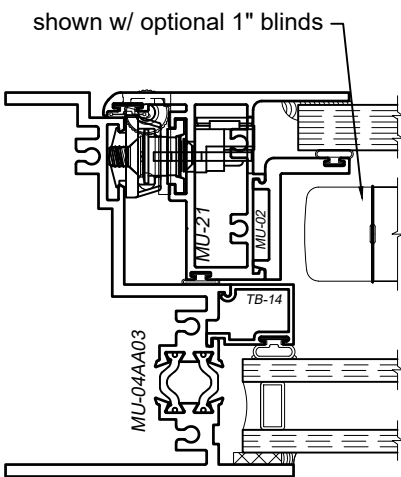
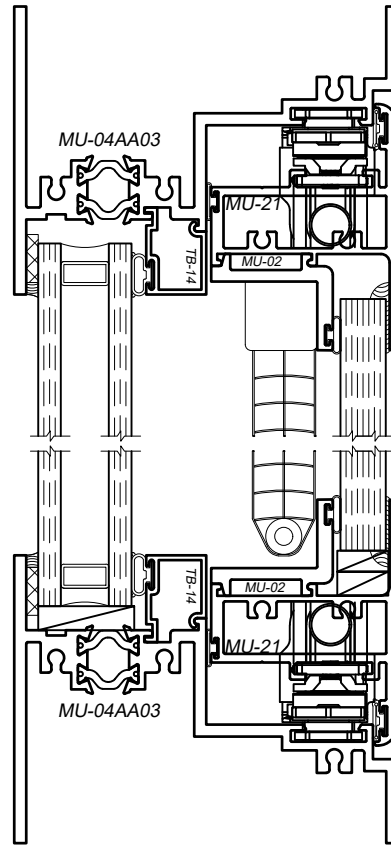
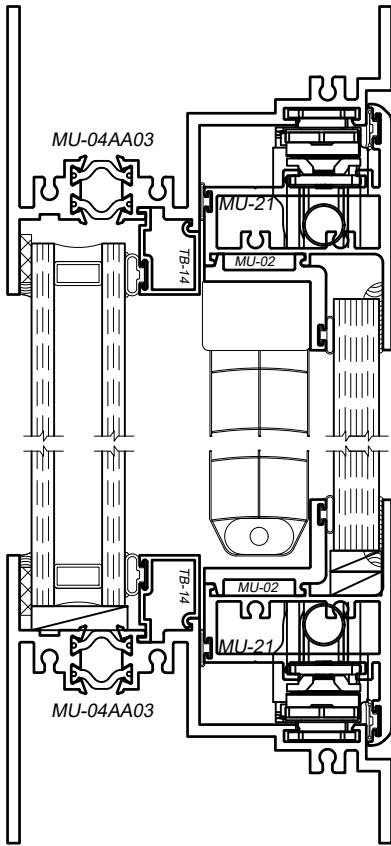
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Tripple Glazed



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"

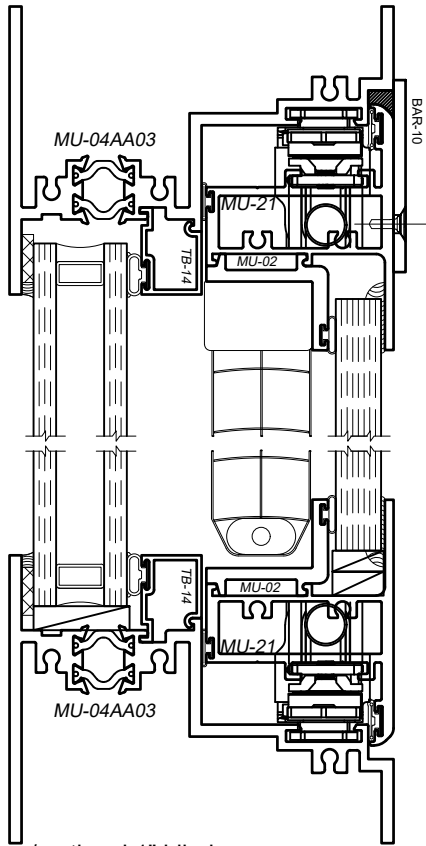
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Tripple Glazed Anti-Ligature Option

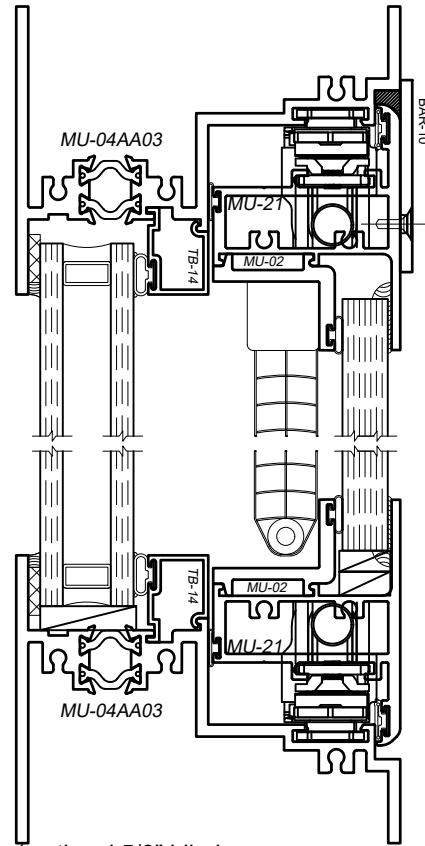
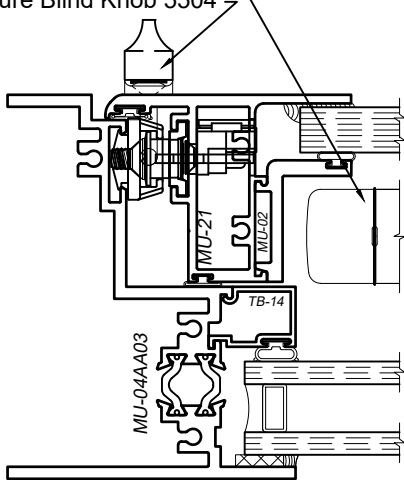


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

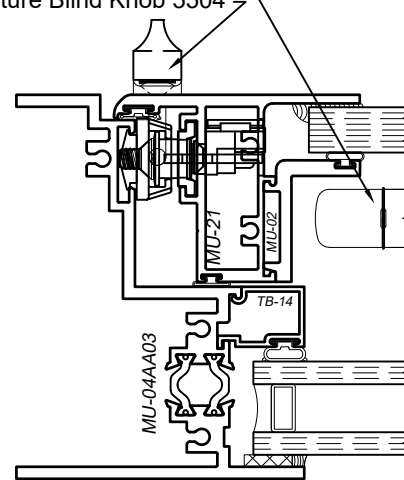
WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



shown w/ optional 1" blinds  
Anti-Ligature Blind Knob 5504



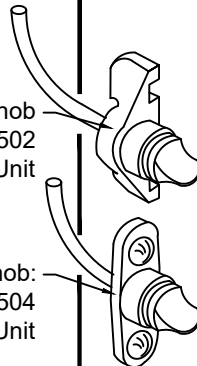
shown w/ optional 5/8" blinds  
Anti-Ligature Blind Knob 5504



Default Tilt Control Knob  
Concealed mounted Anti-Ligature Blind Knob 5502  
tested by NYSOMH mounted on WINCO 8800 Unit

Alternative Tilt Control Knob:  
Surface mounted Anti-Ligature Blind Knob 5504  
tested by NYSOMH mounted on WINCO 8800 Unit

SCALE 6"=1'-0"



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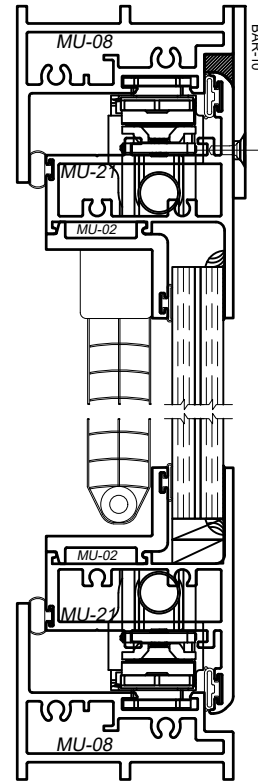
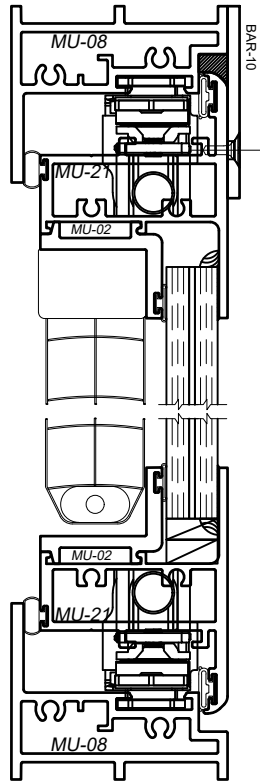
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Retro Fit Anti-Ligature Option

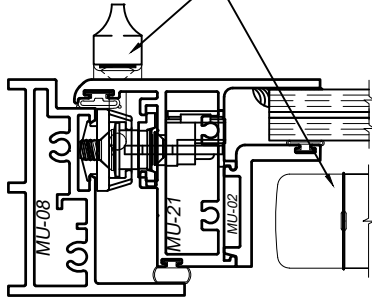


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

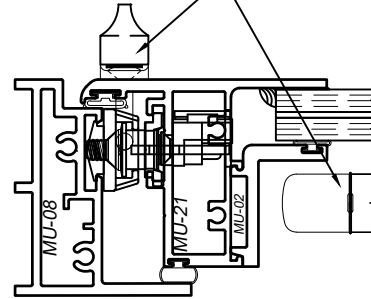
WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



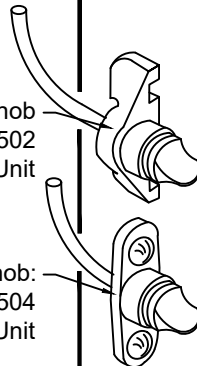
shown w/ optional 1" blinds  
Anti-Ligature Blind Knob 5504



shown w/ optional 5/8" blinds  
Anti-Ligature Blind Knob 5504



Default Tilt Control Knob  
Concealed mounted Anti-Ligature Blind Knob 5502  
tested by NYSOMH mounted on WINCO 8800 Unit



Alternative Tilt Control Knob:  
Surface mounted Anti-Ligature Blind Knob 5504  
tested by NYSOMH mounted on WINCO 8800 Unit

SCALE 6"=1'-0"

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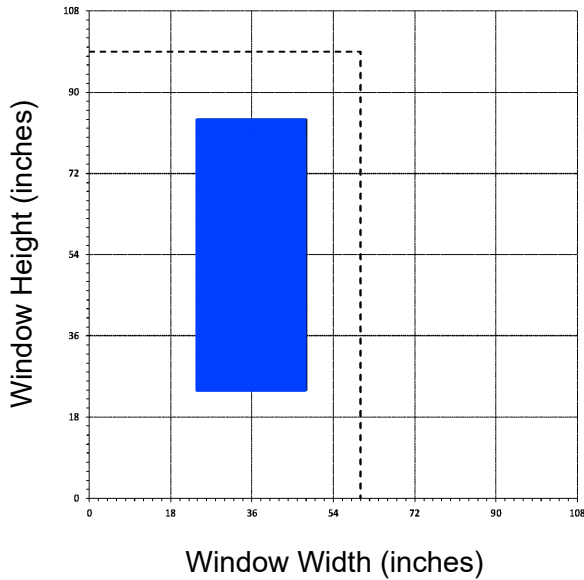
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Window Unit Size Chart

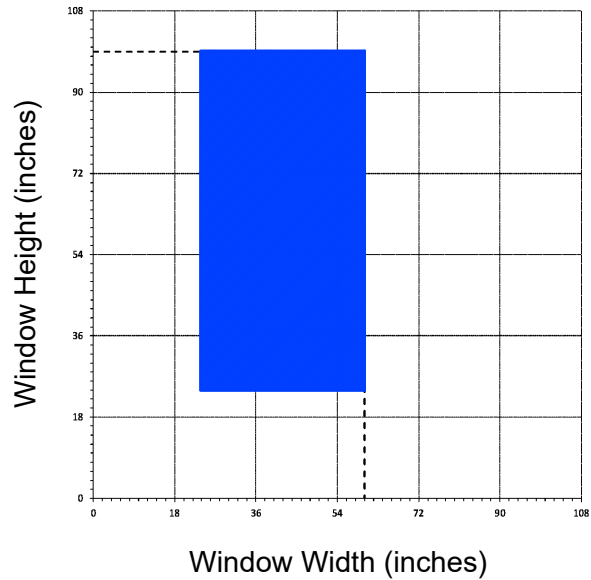


WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

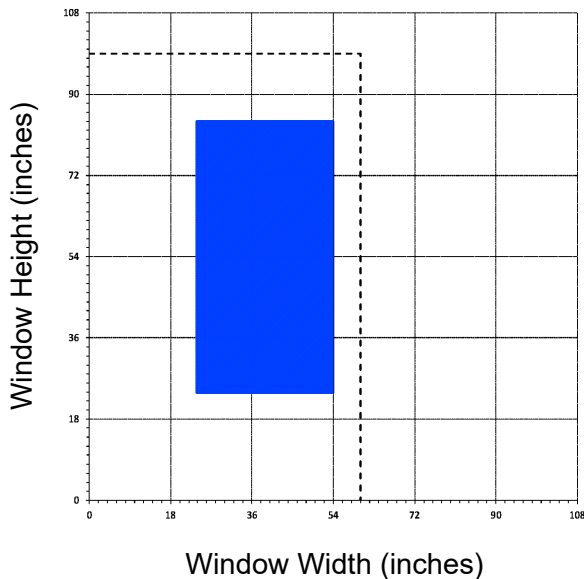
Fixed 1500 ft lbs Impact  
9/16" Laminate Impact Panel



Fixed 1800 ft lbs Impact  
1/2" Polycarbonate Impact Panel



Fixed 2000 ft lbs Impact  
1/2" Polycarbonate Impact Panel



--- AAMA Gateway Test Size  
(without Impact Panel to AAMA 101 / I.S.2 // ANSI 440 / NAFS for Air/Water/Structural performance)

The 8800 Human Impact Series was tested in multiple glazing configurations to AAMA 501.8

- With 9/16" Laminated Impact Panel at 1,500 ft lbs
- With 1/2" Polycarbonate Impact Panel at 1,800 ft lbs
- With 1/2" Polycarbonate Impact Panel at 2,000 ft lbs

*Note that the maximum certified size is limited by the AAMA 501.8 Impact Test Size, not the AAMA 101 Air/Water/Structural Test size.*

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- Dashed line represents the size window as tested to AAMA 101 for Air/Water/Structural 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 Unit size is 24" x 24".
- The chart is a general guideline for Human Impact window unit sizing. Anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

# 8800 Series 4" Thermal Fixed Human Impact Windows

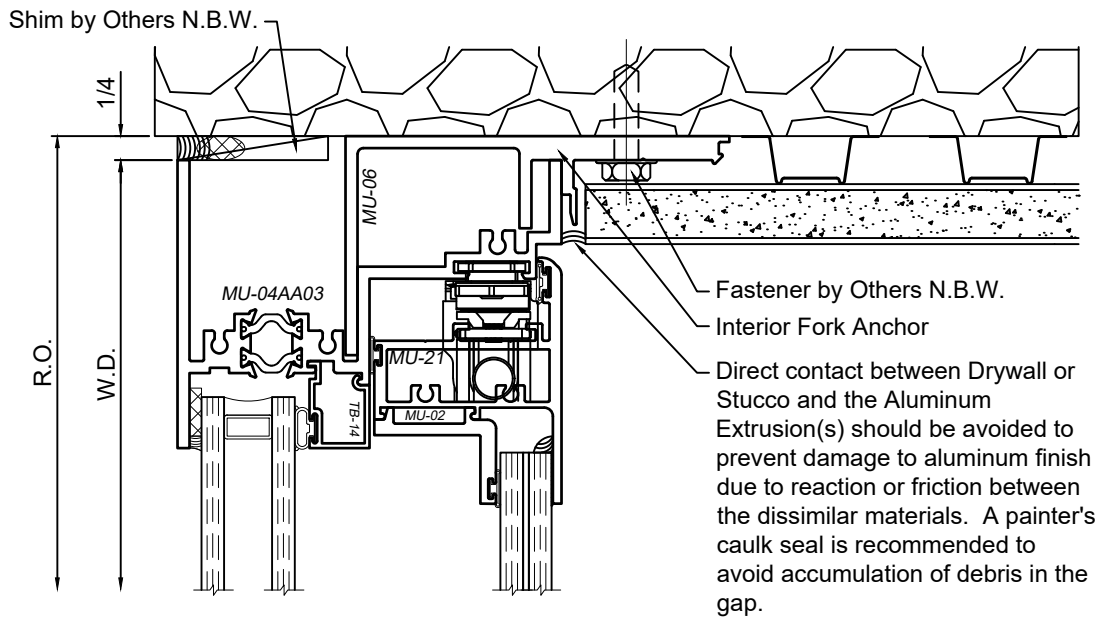
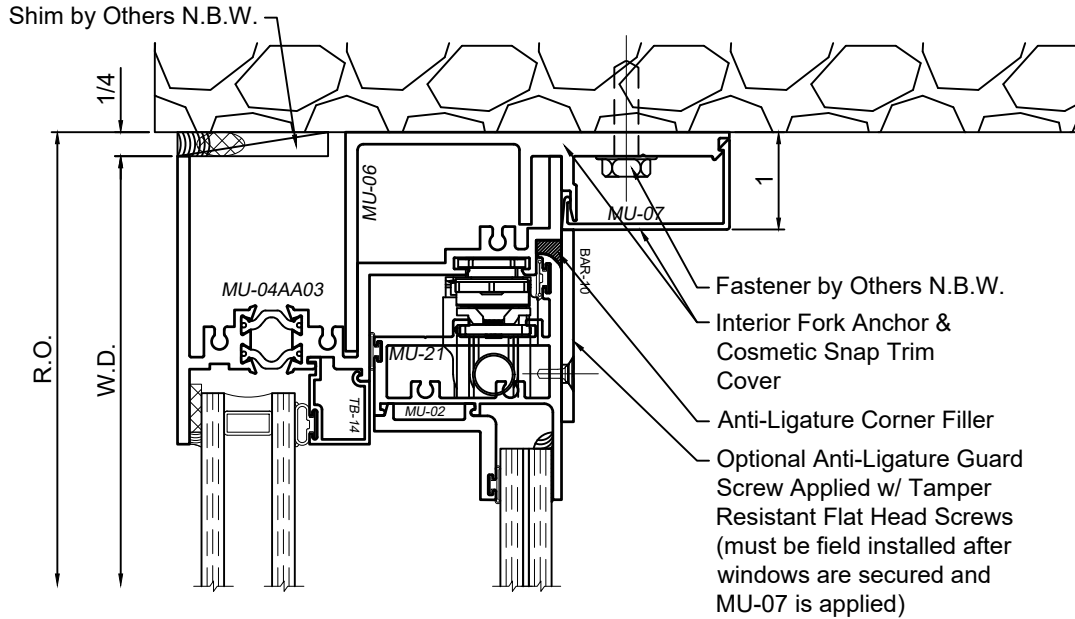
## Product Details - Trim - F-Anchor (Fork Anchor) Installation



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

The Fork Anchor MU-06 is mandatory to yield impact resistance to AAMA 501.8. The Snap On cover MU-07 is optional. The Anti-Ligature Guard Bar-10 is optional and only furnished when NYSOMH Anti-Ligature configuration is specified.

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Note:  
 This Product System MUST be installed with MU-06 Fork Anchor to meet the tested performance.  
 On the exterior side the full range of snap trim trim and pan selection is available for cosmetic purposes.  
 A PVC frame filler is not available at this time.

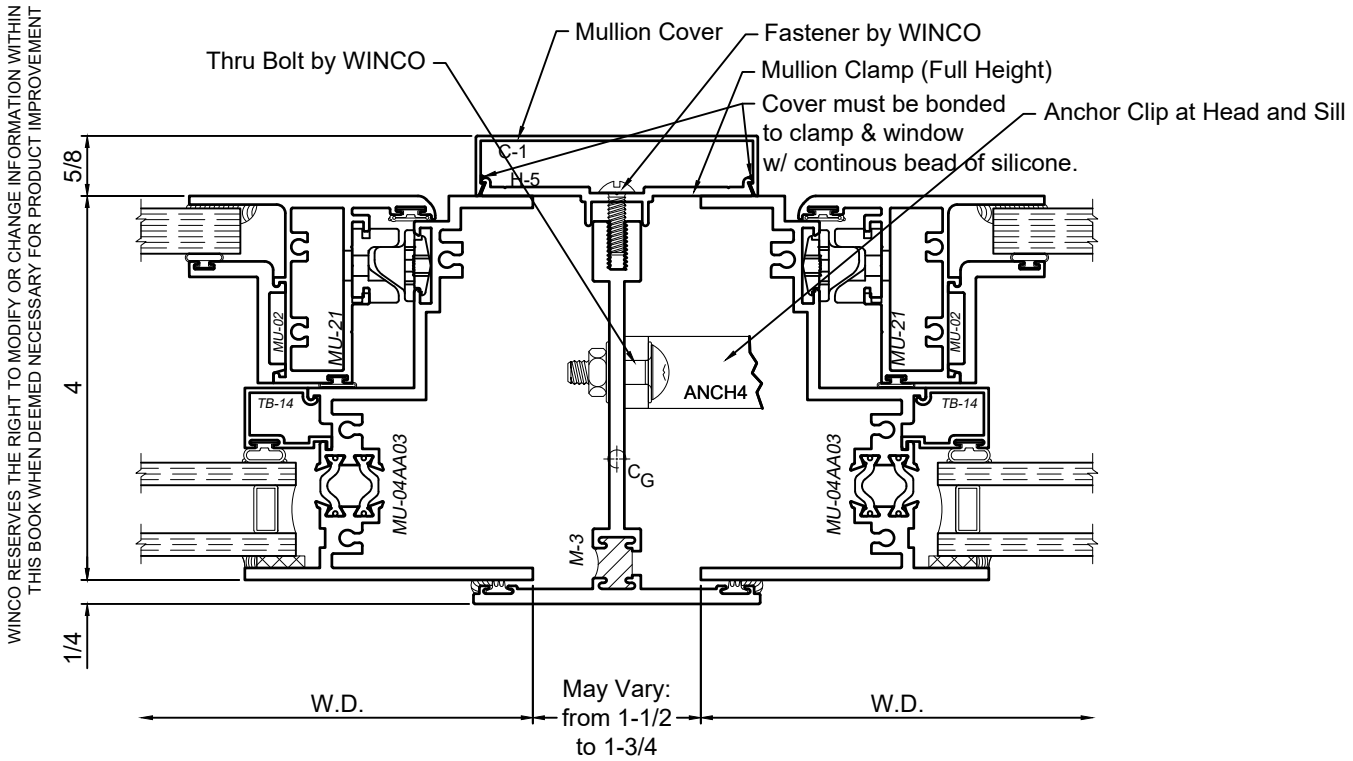
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# 8800 Series 4" Thermal Fixed Human Impact Windows

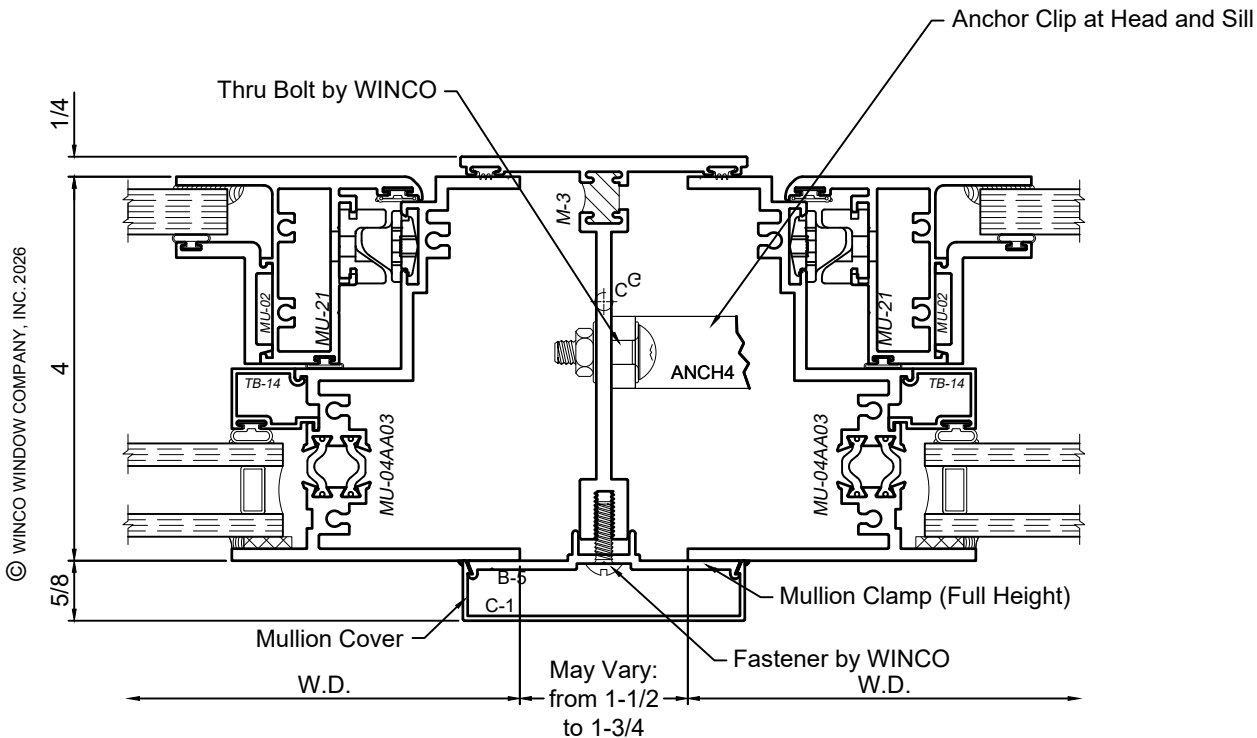
## Product Details - Trim - Mullion



### M-3 Mullion set from Building Interior



### M-3 Mullion set from Building Exterior



SCALE 6"=1'-0"

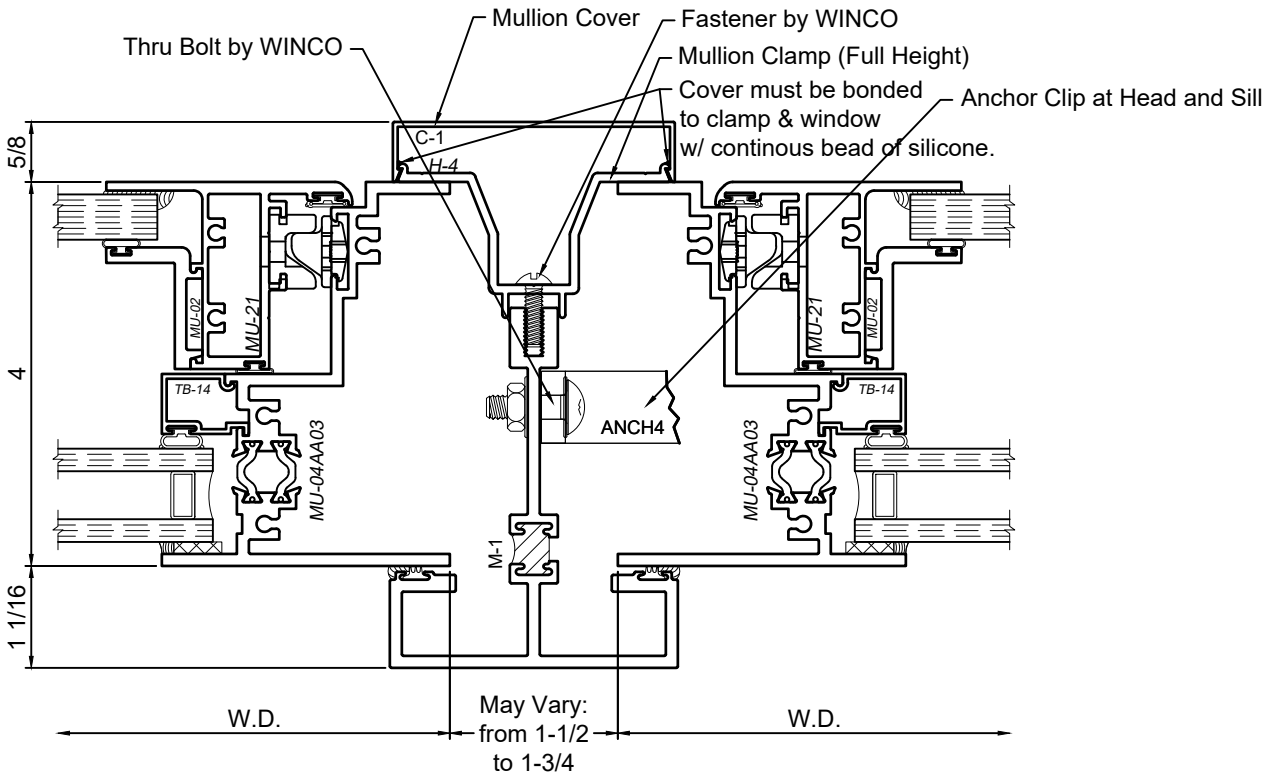
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Trim - Mullion



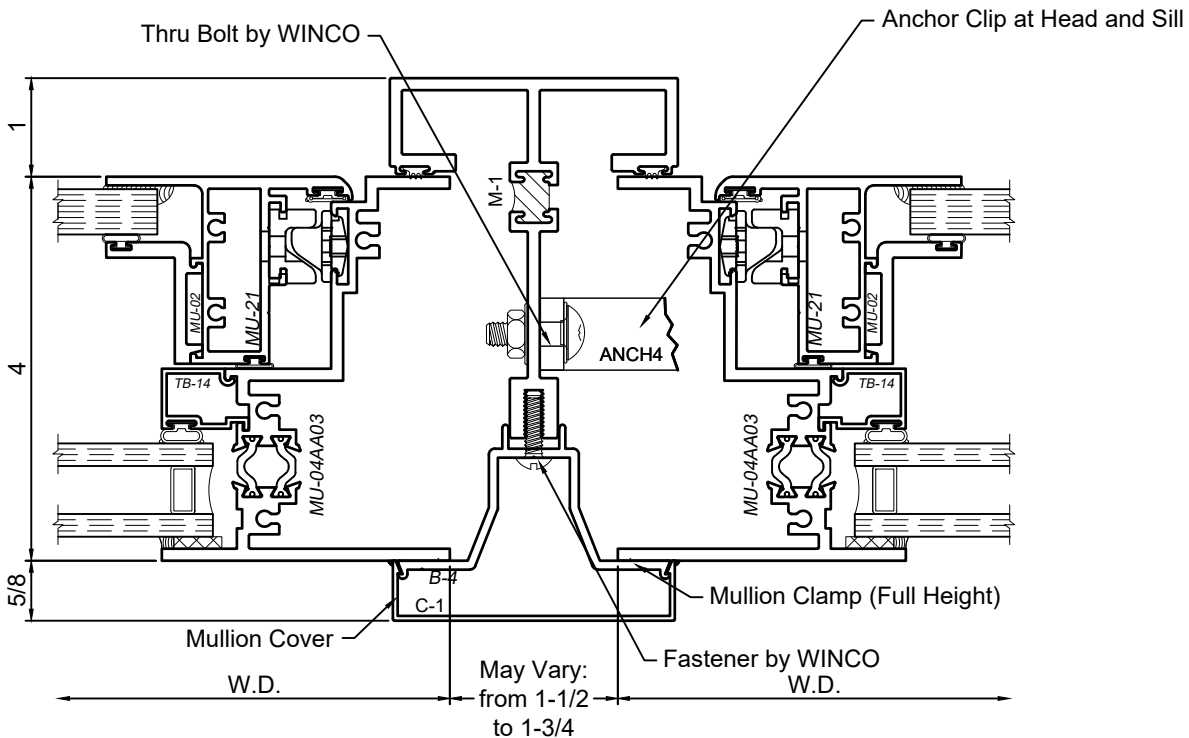
### M-1 Mullion set from Building Interior

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### M-1 Mullion set from Building Exterior

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SCALE 6"=1'-0"

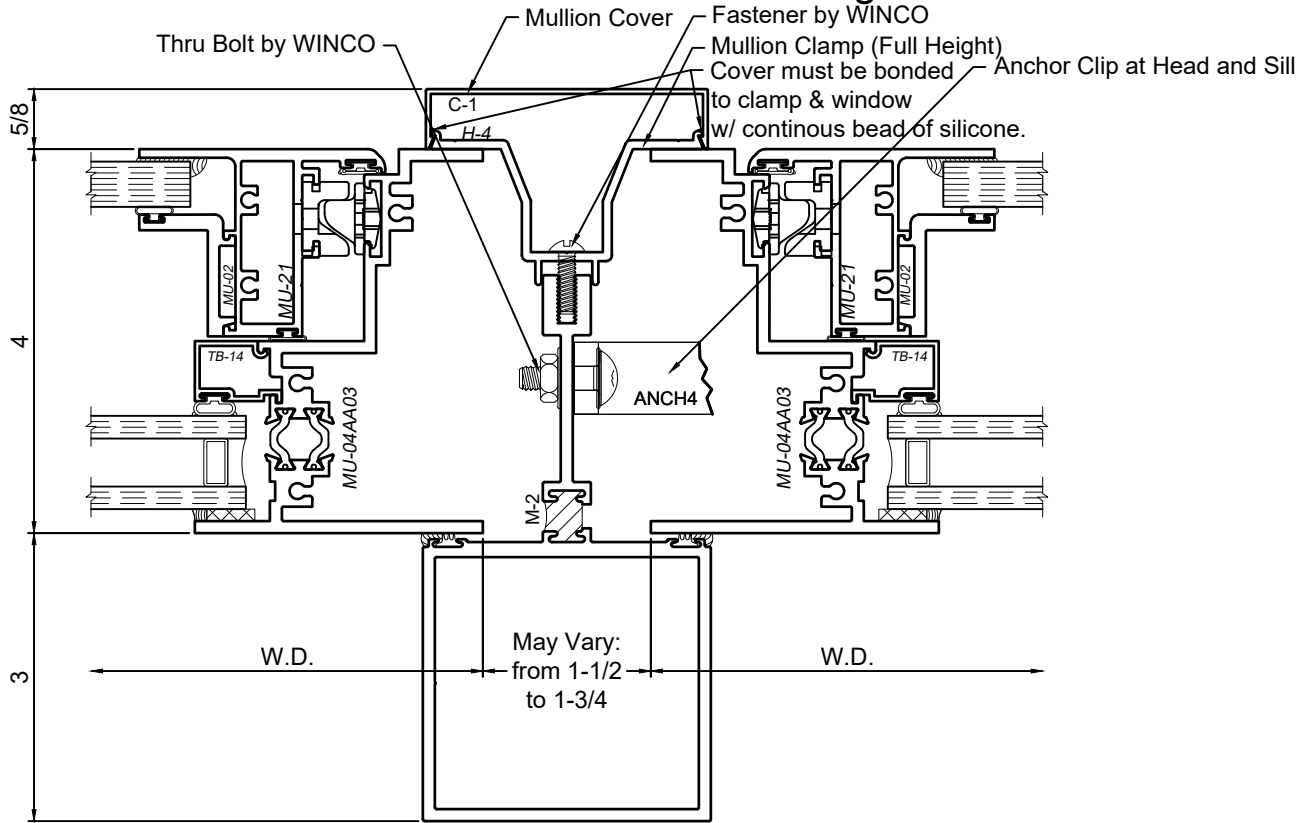
# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Trim - Mullion

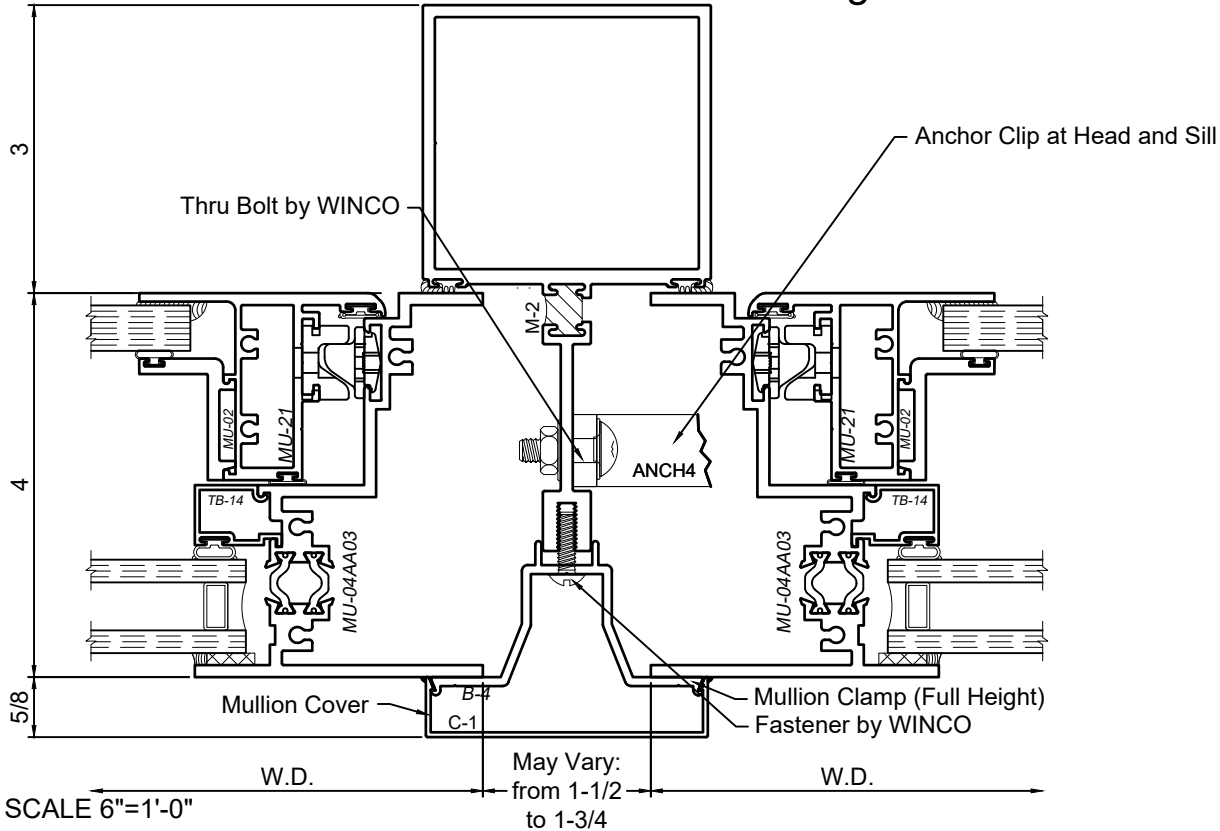


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### M-2 Mullion set from Building Interior



### M-2 Mullion set from Building Exterior



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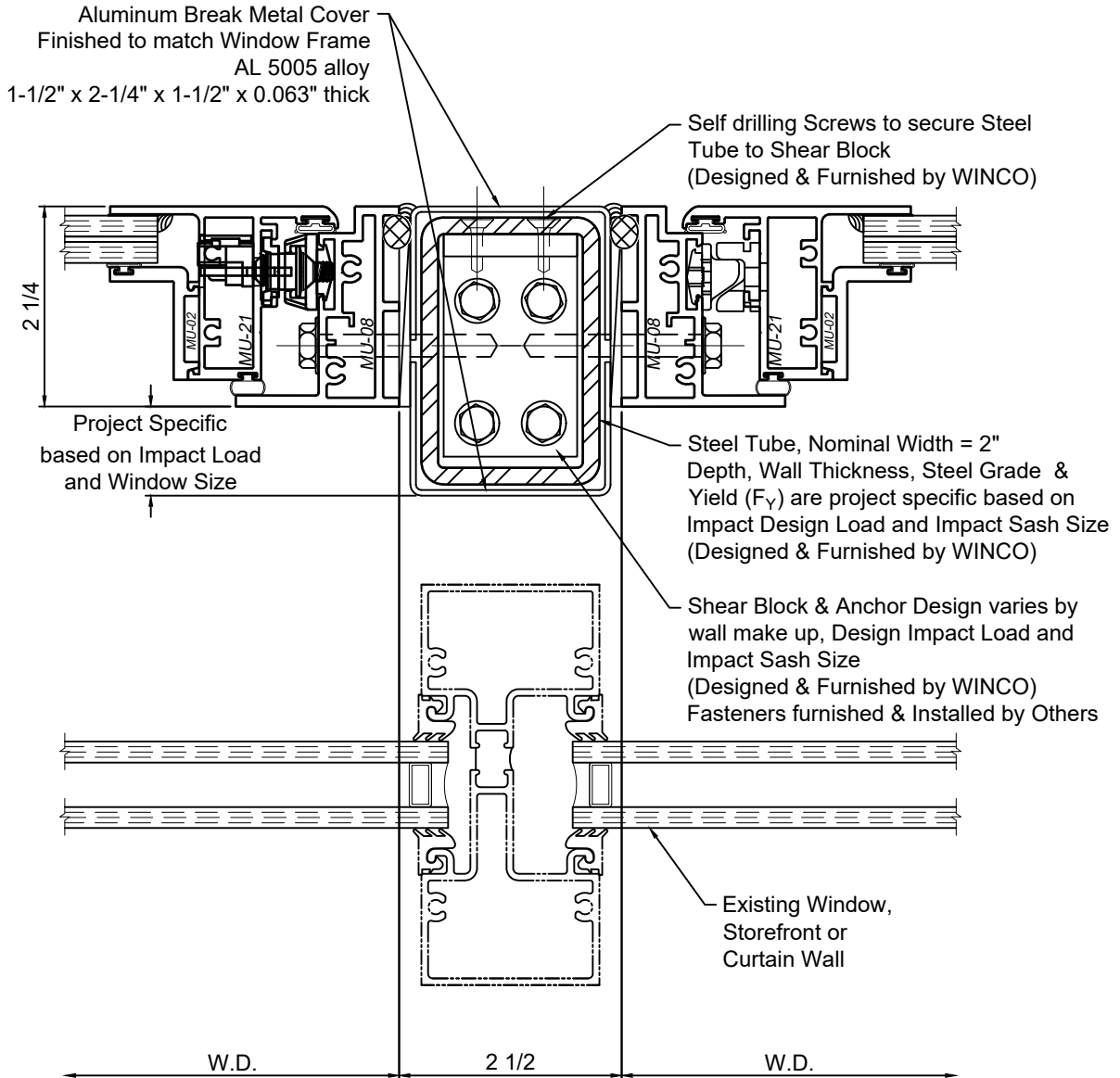
SCALE 6"=1'-0"

# 8800 Series 4" Thermal Fixed Human Impact Windows

## Product Details - Trim - Retro-Fit Mullion



### HSS (Steel Tube) w/ Break Metal Cladding



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SCALE 6"=1'-0"