

# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

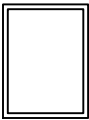
## Product Information - Fixed w/ 1" I.G.



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### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <p>Fixed (Picture Window)</p>  <p>NAFS / AAMA 101<br/>Test Size 60" x 99"<br/>Class:<br/>AW<br/>Performance Grade:<br/>100<br/>Air Infiltration:<br/>&lt;0.0 CFM<br/>Water Infiltration Resistance:<br/>&gt; 12 psf</p>                                                                                                                                                                                                                                        |    | $U_{COG}=0.20 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Low-E No.4 <sup>7</sup><br>example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL (Warm-Edge Spacer) |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.26 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                         | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.24 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                         | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                         |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                         |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                         |                                                   |
| <p>Can be Configured for ADA Compliance</p> <p><input checked="" type="checkbox"/> Not-Applicable<br/><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<br/><input type="checkbox"/> Missile "D"<br/><input type="checkbox"/> Missile "E"</p> <p>Product Type may be configured for Blast Resistant Installation</p> <p><input type="checkbox"/> No<br/><input checked="" type="checkbox"/> Yes <sup>6</sup></p> |    | $U_{COG}=0.24 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated<br>example: SNX 62/27 or Solarban70 (Warm-Edge Spacer)                                         |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                         | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.28 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                         | CRF= 75 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                         |                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    | $U_{COG}=0.29 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Double Silver Low-E #2 x 100% Air x Uncoated<br>example: SN-68 or Solarban60 (Warm-Edge Spacer)                                              |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.34 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                         | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.33 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                         | CRF= 69 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                         |                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | $U_{COG}=0.34 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Single Silver Low-E #2 x 100% Air x Uncoated<br>example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)                                 |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.37 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                         | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.36 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                         | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                         |                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | $U_{COG}=0.47 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 100% Air x Uncoated<br>example: Clear over Clear (Air, Aluminum Box-Spacer)                                                       |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.48 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                         | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.47 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                         | CRF= 58 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                     |                                                                                                                                                                                                         |                                                   |
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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

<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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

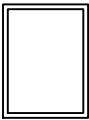
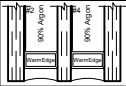
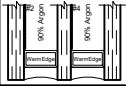
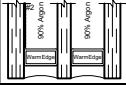
## Product Information - Fixed w/ Multi-Cavity I.G.



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                |                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <div>Fixed (Picture Window)</div>  <div>           NAFS / AAMA 101<br/>           Test Size 60" x 99"<br/>           Class:<br/>           AW<br/>           Performance Grade:<br/>           100<br/>           Air Infiltration:<br/>           &lt;0.0 CFM<br/>           Water Infiltration Resistance:<br/>           &gt; 12 psf         </div> |  <div> <math>U_{COG}=0.116 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}</math> Triple Silver Low-E #2 x 90% Argon x Low-E No.4 <sup>7</sup><br/>           example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)         </div> |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NFRC Size <sup>1</sup> 47" x 59" $U_{Window} = 0.18 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$                                                                                                                                                                                                                                | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NAFS Size <sup>3</sup> 60" x 99" $U_{Window} = 0.16 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^4$                                                                                                                                                                                                                                | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |  <div> <math>U_{COG}=0.121 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}</math> Double Silver Low-E #2 x 90% Argon x Low-E No.4<br/>           example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)         </div>               |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NFRC Size <sup>1</sup> 47" x 59" $U_{Window} = 0.18 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$                                                                                                                                                                                                                                | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NAFS Size <sup>3</sup> 60" x 99" $U_{Window} = 0.17 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^4$                                                                                                                                                                                                                                | CRF= 75 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |  <div> <math>U_{COG}=0.184 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}</math> Triple Silver Low-E #2 x 90% Argon x Uncoated<br/>           example: SNX 62/27 (Warm-Edge Spacer)         </div>                                                 |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NFRC Size <sup>1</sup> 47" x 59" $U_{Window} = 0.24 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$                                                                                                                                                                                                                                | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NAFS Size <sup>3</sup> 60" x 99" $U_{Window} = 0.22 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^4$                                                                                                                                                                                                                                | CRF= 69 (AAMA 1503) <sup>5</sup>                  |
| <div>Can be Configured for ADA Compliance</div> <div> <input checked="" type="checkbox"/> Not-Applicable<br/> <input type="checkbox"/> Yes         </div>                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                |                                                   |
| <div>Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996</div> <div> <input checked="" type="checkbox"/> Not Rated<br/> <input type="checkbox"/> Missile "D"<br/> <input type="checkbox"/> Missile "E"         </div>                                                                                                                                                                               |  <div> <math>U_{COG}=0.188 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}</math> Double Silver Low-E #2 x 90% Argon x Uncoated<br/>           example: SN-68 or Solarban60 (Warm-Edge Spacer)         </div>                                     |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NFRC Size <sup>1</sup> 47" x 59" $U_{Window} = 0.24 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$                                                                                                                                                                                                                                | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         | NAFS Size <sup>3</sup> 60" x 99" $U_{Window} = 0.22 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^4$                                                                                                                                                                                                                                | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
| <div>Product Type may be configured for Blast Resistant Installation</div> <div> <input type="checkbox"/> No<br/> <input checked="" type="checkbox"/> Yes <sup>6</sup> </div>                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                |                                                   |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance



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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

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

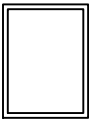
## Product Information - Fixed w/ 1" Hybrid V.I.G. (Inboard)



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

### PERFORMANCE

The Series 8325 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>Fixed (Picture Window)</p>  <p>NAFS / AAMA 101<br/>Test Size 60" x 99"<br/>Class:<br/>AW<br/>Performance Grade:<br/>100<br/>Air Infiltration:<br/>&lt;0.0 CFM<br/>Water Infiltration Resistance:<br/>&gt; 12 psf</p>                                                                                                                                                                                                                                        |  | $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Triple Silver Low-E #4<br>example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer) |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.18 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                    | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.15 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                    | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
| <p>Can be Configured for ADA Compliance</p> <p><input checked="" type="checkbox"/> Not-Applicable<br/><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<br/><input type="checkbox"/> Missile "D"<br/><input type="checkbox"/> Missile "E"</p> <p>Product Type may be configured for Blast Resistant Installation</p> <p><input checked="" type="checkbox"/> No<br/><input type="checkbox"/> Yes <sup>6</sup></p> |  | $U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 90% Argon x Triple Silver Low-E #2<br>example: Cardinal 366 (Warm-Edge Spacer)                              |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.25 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                    | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.23 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                    | CRF= 75 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | $U_{COG}=0.279 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated V.I.G. x 90% Argon x Uncoated<br>example: Clear over Clear V.I.G. (Warm-Edge Spacer)                          |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | NFRC Size <sup>1</sup> 47" x 59" $U_{Window}=0.34 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                    | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   | NAFS Size <sup>3</sup> 60" x 99" $U_{Window}=0.32 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                    | CRF= 69 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                   |                                                                                                                                                                                    |                                                   |
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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.

<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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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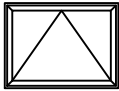
## Product Information - PO Awning w/ 1" I.G.



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

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| <div>Project Out Awning (PO)</div>  <div>                     NAFS / AAMA 101<br/>                     Test Size 60" x 36"<br/>                     Class:<br/>                     AW<br/>                     Performance Grade:<br/>                     100<br/>                     Air Infiltration:<br/>                     &lt;0.01 CFM<br/>                     Water Infiltration Resistance:<br/>                     &gt; 12 psf                 </div> <div>                     Can be Configured<br/>                     for ADA Compliance<br/> <input type="checkbox"/> Not-Applicable<br/> <input checked="" type="checkbox"/> Yes                 </div> <div>                     Can be configured to meet<br/>                     Windborne Debris Impact<br/>                     Resistance to<br/>                     ASTM E1886 / ASTM E1996<br/> <input checked="" type="checkbox"/> Not Rated<br/> <input type="checkbox"/> Missile "D"<br/> <input type="checkbox"/> Missile "E"                 </div> <div>                     Product Type may be<br/>                     configured for<br/>                     Blast Resistant Installation<br/> <input type="checkbox"/> No<br/> <input checked="" type="checkbox"/> Yes<sup>6</sup> </div> |  $U_{COG}=0.20$ Btu/hr-ft <sup>2</sup> -°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4 <sup>7</sup><br>example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL (Warm-Edge Spacer) | $U_{Window}=0.36$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          | $U_{Window}=0.32$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          |                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  $U_{COG}=0.24$ Btu/hr-ft <sup>2</sup> -°F Triple Silver Low-E #2 x 90% Argon x Uncoated<br>example: SNX 62/27 or Solarban70 (Warm-Edge Spacer)                                         | $U_{Window}=0.39$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          | $U_{Window}=0.35$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> CRF= 75 (AAMA 1503) <sup>5</sup>                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          |                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  $U_{COG}=0.29$ Btu/hr-ft <sup>2</sup> -°F Double Silver Low-E #2 x 100% Air x Uncoated<br>example: SN-68 or Solarban60 (Warm-Edge Spacer)                                              | $U_{Window}=0.41$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          | $U_{Window}=0.39$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> CRF= 69 (AAMA 1503) <sup>5</sup>                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          |                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  $U_{COG}=0.34$ Btu/hr-ft <sup>2</sup> -°F Single Silver Low-E #2 x 100% Air x Uncoated<br>example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)                               | $U_{Window}=0.44$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          | $U_{Window}=0.41$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          |                                                                                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  $U_{COG}=0.47$ Btu/hr-ft <sup>2</sup> -°F Uncoated x 100% Air x Uncoated<br>example: Clear over Clear (Air, Aluminum Box-Spacer)                                                     | $U_{Window}=0.51$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          | $U_{Window}=0.50$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> CRF= 58 (AAMA 1503) <sup>5</sup>                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                          |                                                                                                            |  |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

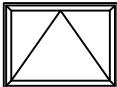
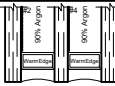
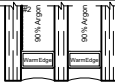
## Product Information - PO Awning w/ Multi-Cavity I.G.



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Project Out Awning (PO)</div> <div></div> <div>NAFS / AAMA 101<br/>Test Size 60" x 36"<br/>Class:<br/>AW<br/>Performance Grade:<br/>100<br/>Air Infiltration:<br/>&lt;0.01 CFM<br/>Water Infiltration Resistance:<br/>&gt; 12 psf</div> <div>Can be Configured<br/>for ADA Compliance<br/><input type="checkbox"/> Not-Applicable<br/><input checked="" type="checkbox"/> Yes</div> <div>Can be configured to meet<br/>Windborne Debris Impact<br/>Resistance to<br/>ASTM E1886 / ASTM E1996<br/><input checked="" type="checkbox"/> Not Rated<br/><input type="checkbox"/> Missile "D"<br/><input type="checkbox"/> Missile "E"</div> <div>Product Type may be<br/>configured for<br/>Blast Resistant Installation<br/><input type="checkbox"/> No<br/><input checked="" type="checkbox"/> Yes<sup>6</sup></div> | <div></div> <div><math>U_{COG}=0.116</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4<sup>7</sup><br/>example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)</div> | <div>NFRC Size<sup>1</sup> 59" x 24" <math>U_{Window}=0.28</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup></div> <div>CI= -- (NFRC 501)<sup>2</sup> (not simulated)</div> | <div>NAFS Size<sup>3</sup> 60" x 36" <math>U_{Window}=0.24</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup></div> <div>CRF= -- (AAMA 1503)<sup>5</sup> (not calculated)</div> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div></div> <div><math>U_{COG}=0.121</math> Btu/hr-ft<sup>2</sup>-°F Double Silver Low-E #2 x 90% Argon x Low-E No.4<br/>example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)</div>              | <div>NFRC Size<sup>1</sup> 59" x 24" <math>U_{Window}=0.28</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup></div> <div>CI= -- (NFRC 501)<sup>2</sup> (not simulated)</div> | <div>NAFS Size<sup>3</sup> 60" x 36" <math>U_{Window}=0.25</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup></div> <div>CRF= 75 (AAMA 1503)<sup>5</sup></div>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div></div> <div><math>U_{COG}=0.184</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Uncoated<br/>example: SNX 62/27 (Warm-Edge Spacer)</div>                                                | <div>NFRC Size<sup>1</sup> 59" x 24" <math>U_{Window}=0.32</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup></div> <div>CI= -- (NFRC 501)<sup>2</sup> (not simulated)</div> | <div>NAFS Size<sup>3</sup> 60" x 36" <math>U_{Window}=0.29</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup></div> <div>CRF= 69 (AAMA 1503)<sup>5</sup></div>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <div></div> <div><math>U_{COG}=0.188</math> Btu/hr-ft<sup>2</sup>-°F Double Silver Low-E #2 x 90% Argon x Uncoated<br/>example: SN-68 or Solarban60 (Warm-Edge Spacer)</div>                                    | <div>NFRC Size<sup>1</sup> 59" x 24" <math>U_{Window}=0.32</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup></div> <div>CI= -- (NFRC 501)<sup>2</sup> (not simulated)</div> | <div>NAFS Size<sup>3</sup> 60" x 36" <math>U_{Window}=0.29</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup></div> <div>CRF= -- (AAMA 1503)<sup>5</sup> (not calculated)</div> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                      |                                                                                                                                                                         |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

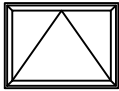
## Product Information - PO Awning w/ 1" Hybrid I.G. (Outboard)



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                 |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <div>Project Out Awning (PO)</div>  <div> <p>NAFS / AAMA 101<br/>Test Size 60" x 36"<br/>Class:<br/>AW<br/>Performance Grade:<br/>100<br/>Air Infiltration:<br/>&lt;0.01 CFM<br/>Water Infiltration Resistance:<br/>&gt; 12 psf</p> <p>Can be Configured<br/>for ADA Compliance<br/><input type="checkbox"/> Not-Applicable<br/><input checked="" type="checkbox"/> Yes</p> <p>Can be configured to meet<br/>Windborne Debris Impact<br/>Resistance to<br/>ASTM E1886 / ASTM E1996<br/><input checked="" type="checkbox"/> Not Rated<br/><input type="checkbox"/> Missile "D"<br/><input type="checkbox"/> Missile "E"</p> <p>Product Type may be<br/>configured for<br/>Blast Resistant Installation<br/><input type="checkbox"/> No<br/><input checked="" type="checkbox"/> Yes<sup>6</sup></p> </div> |  $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Tripple Silver #5<br>example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer) |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                 | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.25 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                 | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                 |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  $U_{COG}=0.100 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated<br>example: Cardinal 366 (Warm-Edge Spacer)                         |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.32 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                 | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.27 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                 | CRF= 75 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                 |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  $U_{COG}=0.276 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated V.I.G. x 90% Argon x Uncoated<br>example: Clear V.I.G. over Clear (Warm-Edge Spacer)                     |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                 | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.38 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                 | CRF= 69 (AAMA 1503) <sup>5</sup>                  |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

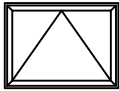
## Product Information - PO Awning w/ 1" Hybrid I.G. (Inboard)



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                      |                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <div>Project Out Awning (PO)</div>  <div>                     NAFS / AAMA 101<br/>                     Test Size 60" x 36"<br/>                     Class:<br/>                     AW<br/>                     Performance Grade:<br/>                     100<br/>                     Air Infiltration:<br/>                     &lt;0.01 CFM<br/>                     Water Infiltration Resistance:<br/>                     &gt; 12 psf                 </div> |  $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Triple Silver Low-E #4<br>example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer) |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                      | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.19 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                      | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                      |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  $U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 90% Argon x Triple Silver Low-E #2<br>example: Cardinal 366 (Warm-Edge Spacer)                              |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.35 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                      | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.26 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                      | CRF= 75 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                      |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  $U_{COG}=0.279 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated V.I.G. x 90% Argon x Uncoated<br>example: Clear over Clear V.I.G. (Warm-Edge Spacer)                          |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                      | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.34 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                      | CRF= 69 (AAMA 1503) <sup>5</sup>                  |
| Can be Configured for ADA Compliance<br><input type="checkbox"/> Not-Applicable<br><input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                      |                                                   |
| Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996<br><input checked="" type="checkbox"/> Not Rated<br><input type="checkbox"/> Missile "D"<br><input type="checkbox"/> Missile "E"                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                      |                                                   |
| Product Type may be configured for Blast Resistant Installation<br><input checked="" type="checkbox"/> No<br><input type="checkbox"/> Yes <sup>6</sup>                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                      |                                                   |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

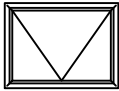
## Product Information - PI Hopper w/ 1" I.G.



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                         |                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Project In Hopper (PI)</b><br><br><br><br><b>NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 80 Air Infiltration: &lt;0.07 CFM Water Infiltration Resistance: &gt; 12 psf</b>                                                                                                                                                                                                                                                            |    | $U_{COG}=0.20 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Low-E No.4 <sup>7</sup><br>example: SNX 62/27 or Solarban70 + IS20 or Sungate Therml (Warm-Edge Spacer) |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window} = 0.36 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                       | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window} = 0.32 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                       | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated)                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                         |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    | $U_{COG}=0.24 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated<br>example: SNX 62/27 or Solarban70 (Warm-Edge Spacer)                                         |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window} = 0.39 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                       | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
| <b>Can be Configured for ADA Compliance</b><br><input checked="" type="checkbox"/> Not-Applicable<br><input type="checkbox"/> Yes<br><br><b>Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996</b><br><input checked="" type="checkbox"/> Not Rated<br><input type="checkbox"/> Missile "D"<br><input type="checkbox"/> Missile "E"<br><br><b>Product Type may be configured for Blast Resistant Installation</b><br><input checked="" type="checkbox"/> No<br><input type="checkbox"/> Yes <sup>6</sup> |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window} = 0.35 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                       | CRF= 75 (AAMA 1503) <sup>5</sup>                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                         |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    | $U_{COG}=0.29 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Double Silver Low-E #2 x 100% Air x Uncoated<br>example: SN-68 or Solarban60 (Warm-Edge Spacer)                                              |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window} = 0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                       | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window} = 0.39 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                       | CRF= 69 (AAMA 1503) <sup>5</sup>                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                         |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | $U_{COG}=0.34 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Single Silver Low-E #2 x 100% Air x Uncoated<br>example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)                                 |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window} = 0.44 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                       | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window} = 0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                       | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated)                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     |                                                                                                                                                                                                         |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | $U_{COG}=0.47 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 100% Air x Uncoated<br>example: Clear over Clear (Air, Aluminum Box-Spacer)                                                       |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window} = 0.51 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                       | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window} = 0.50 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                       | CRF= 58 (AAMA 1503) <sup>5</sup>                                                             |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

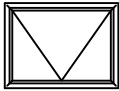
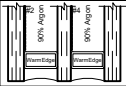
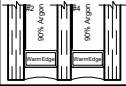
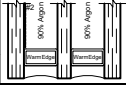
## Product Information - PI Hopper w/ Multi-Cavity I.G.



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### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                  |                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <div>Project In Hopper (PI)</div>  <div>                     NAFS / AAMA 101<br/>                     Test Size 60" x 36"<br/>                     Class:<br/>                     AW<br/>                     Performance Grade:<br/>                     80<br/>                     Air Infiltration:<br/>                     &lt;0.07 CFM<br/>                     Water Infiltration Resistance:<br/>                     &gt; 12 psf                 </div>                                                                                                                                                                                                                                                      |    | $U_{COG}=0.116 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Triple Silver Low-E #2 x 90% Argon x Low-E No.4 <sup>7</sup><br>example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge) |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.28 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^2$                                                                                                    | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.20 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^4$                                                                                                    | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated)                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                  |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    | $U_{COG}=0.121 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Double Silver Low-E #2 x 90% Argon x Low-E No.4<br>example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)               |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.28 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^2$                                                                                                    | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
| <div> <input checked="" type="checkbox"/> Can be Configured for ADA Compliance<br/> <input checked="" type="checkbox"/> Not-Applicable<br/> <input type="checkbox"/> Yes                 </div> <div>                     Can be configured to meet<br/>                     Windborne Debris Impact<br/>                     Resistance to<br/>                     ASTM E1886 / ASTM E1996<br/> <input checked="" type="checkbox"/> Not Rated<br/> <input type="checkbox"/> Missile "D"<br/> <input type="checkbox"/> Missile "E"                 </div> <div>                     Product Type may be<br/>                     configured for<br/>                     Blast Resistant Installation<br/> <input checked="" type="checkbox"/> No<br/> <input type="checkbox"/> Yes <sup>6</sup> </div> |    | $U_{COG}=0.184 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated<br>example: SNX 62/27 (Warm-Edge Spacer)                                                 |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.24 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^2$                                                                                                    | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.22 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^4$                                                                                                    | CRF= 69 (AAMA 1503) <sup>5</sup>                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     |                                                                                                                                                                                                  |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | $U_{COG}=0.188 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Double Silver Low-E #2 x 90% Argon x Uncoated<br>example: SN-68 or Solarban60 (Warm-Edge Spacer)                                       |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.24 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^2$                                                                                                    | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.22 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^4$                                                                                                    | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated)                                            |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

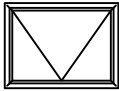
## Product Information - PI Hopper w/ 1" Hybrid V.I.G. (Outboard)



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 |                                                                                           |                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <div>Project In Hopper (PI)</div>  <div> <p>NAFS / AAMA 101<br/>Test Size 60" x 36"<br/>Class:<br/>AW<br/>Performance Grade:<br/>80<br/>Air Infiltration:<br/>&lt; 0.07 CFM<br/>Water Infiltration Resistance:<br/>&gt; 12 psf</p> <p>Can be Configured<br/>for ADA Compliance<br/><input checked="" type="checkbox"/> Not-Applicable<br/><input type="checkbox"/> Yes</p> <p>Can be configured to meet<br/>Windborne Debris Impact<br/>Resistance to<br/>ASTM E1886 / ASTM E1996<br/><input checked="" type="checkbox"/> Not Rated<br/><input type="checkbox"/> Missile "D"<br/><input type="checkbox"/> Missile "E"</p> <p>Product Type may be<br/>configured for<br/>Blast Resistant Installation<br/><input checked="" type="checkbox"/> No<br/><input type="checkbox"/> Yes<sup>6</sup></p> </div> |  <p><math>U_{COG}=0.079</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Tripple Silver #5<br/>example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer)</p> |                                                                                           |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.30$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.25$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated)                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p><math>U_{COG}=0.100</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Uncoated<br/>example: Cardinal 366 (Warm-Edge Spacer)</p>                         |                                                                                           |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.32$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.27$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> | CRF= 75 (AAMA 1503) <sup>5</sup>                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p><math>U_{COG}=0.276</math> Btu/hr-ft<sup>2</sup>-°F Uncoated V.I.G. x 90% Argon x Uncoated<br/>example: Clear V.I.G. over Clear (Warm-Edge Spacer)</p>                     |                                                                                           |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.41$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup> | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.38$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup> | CRF= 69 (AAMA 1503) <sup>5</sup>                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 |                                                                                           |                                                                                              |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

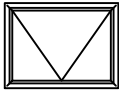
## Product Information - PI Hopper w/ 1" Hybrid V.I.G. (Inboard)



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

### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                      |                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <div>Project In Hopper (PI)</div>  <div>                     NAFS / AAMA 101<br/>                     Test Size 60" x 36"<br/>                     Class:<br/>                     AW<br/>                     Performance Grade:<br/>                     80<br/>                     Air Infiltration:<br/>                     &lt;0.07 CFM<br/>                     Water Infiltration Resistance:<br/>                     &gt; 12 psf                 </div> |  $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Triple Silver Low-E #4<br>example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer) |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                      | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.19 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                      | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated)                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                      |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  $U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 90% Argon x Triple Silver Low-E #2<br>example: Cardinal 366 (Warm-Edge Spacer)                              |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.35 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                      | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.26 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                      | CRF= 75 (AAMA 1503) <sup>5</sup>                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                      |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  $U_{COG}=0.279 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated V.I.G. x 90% Argon x Uncoated<br>example: Clear over Clear V.I.G. (Warm-Edge Spacer)                          |                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NFRC Size <sup>1</sup> 59" x 24" $U_{Window}=0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                      | Same performance as simulated PO Awning, NFRC does not differentiate between swing direction |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NAFS Size <sup>3</sup> 60" x 36" $U_{Window}=0.34 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                      | CRF= 69 (AAMA 1503) <sup>5</sup>                                                             |
| Can be Configured for ADA Compliance<br><input checked="" type="checkbox"/> Not-Applicable<br><input type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                      |                                                                                              |
| Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996<br><input checked="" type="checkbox"/> Not Rated<br><input type="checkbox"/> Missile "D"<br><input type="checkbox"/> Missile "E"                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                      |                                                                                              |
| Product Type may be configured for Blast Resistant Installation<br><input checked="" type="checkbox"/> No<br><input type="checkbox"/> Yes <sup>6</sup>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                      |                                                                                              |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

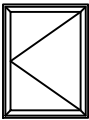
## Product Information - OS Casement w/ 1" I.G.



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### PERFORMANCE

The Series 8325 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>NAFS / AAMA 101<br/>Test Size 36" x 60"<br/>Class:<br/>AW<br/>Performance Grade:<br/>80<br/>Air Infiltration:<br/>&lt;0.03 CFM<br/>Water Infiltration Resistance:<br/>&gt; 12 psf</p> <p>Can be Configured<br/>for ADA Compliance<br/><input type="checkbox"/> Not-Applicable<br/><input checked="" type="checkbox"/> Yes</p> <p>Can be configured to meet<br/>Windborne Debris Impact<br/>Resistance to<br/>ASTM E1886 / ASTM E1996<br/><input checked="" type="checkbox"/> Not Rated<br/><input type="checkbox"/> Missile "D"<br/><input type="checkbox"/> Missile "E"</p> <p>Product Type may be<br/>configured for<br/>Blast Resistant Installation<br/><input type="checkbox"/> No<br/><input checked="" type="checkbox"/> Yes<sup>6</sup></p> |  <p><math>U_{COG}=0.20</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4<sup>7</sup><br/>example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL (Warm-Edge Spacer)</p> | <p>NFRC Size<sup>1</sup> 24" x 59" <math>U_{Window}=0.36</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup> CI= -- (NFRC 501)<sup>2</sup> (not simulated)</p>    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          | <p>NAFS Size<sup>3</sup> 36" x 60" <math>U_{Window}=0.32</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup> CRF= -- (AAMA 1503)<sup>5</sup> (not calculated)</p> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p><math>U_{COG}=0.24</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Uncoated<br/>example: SNX 62/27 or Solarban70 (Warm-Edge Spacer)</p>                                        | <p>NFRC Size<sup>1</sup> 24" x 59" <math>U_{Window}=0.39</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup> CI= -- (NFRC 501)<sup>2</sup> (not simulated)</p>    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          | <p>NAFS Size<sup>3</sup> 36" x 60" <math>U_{Window}=0.35</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup> CRF= 75 (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<br/>example: SN-68 or Solarban60 (Warm-Edge Spacer)</p>                                             | <p>NFRC Size<sup>1</sup> 24" x 59" <math>U_{Window}=0.41</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup> CI= -- (NFRC 501)<sup>2</sup> (not simulated)</p>    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          | <p>NAFS Size<sup>3</sup> 36" x 60" <math>U_{Window}=0.39</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<br/>example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)</p>                              | <p>NFRC Size<sup>1</sup> 24" x 59" <math>U_{Window}=0.44</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup> CI= -- (NFRC 501)<sup>2</sup> (not simulated)</p>    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          | <p>NAFS Size<sup>3</sup> 36" x 60" <math>U_{Window}=0.41</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup> CRF= -- (AAMA 1503)<sup>5</sup> (not calculated)</p> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          |                                                                                                                                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p><math>U_{COG}=0.47</math> Btu/hr-ft<sup>2</sup>-°F Uncoated x 100% Air x Uncoated<br/>example: Clear over Clear (Air, Aluminum Box-Spacer)</p>                                                    | <p>NFRC Size<sup>1</sup> 24" x 59" <math>U_{Window}=0.51</math> Btu/h-ft<sup>2</sup>-°f<sup>2</sup> CI= -- (NFRC 501)<sup>2</sup> (not simulated)</p>    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                          | <p>NAFS Size<sup>3</sup> 36" x 60" <math>U_{Window}=0.50</math> Btu/h-ft<sup>2</sup>-°f<sup>4</sup> CRF= 58 (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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

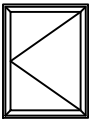
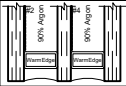
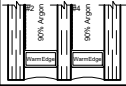
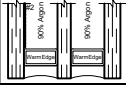
## Product Information - OS Casement w/ Multi-Cavity I.G.



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### PERFORMANCE

The Series 8325 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>NAFS / AAMA 101<br/>Test Size 36" x 60"<br/>Class:<br/>AW<br/>Performance Grade:<br/>80<br/>Air Infiltration:<br/>&lt;0.03 CFM<br/>Water Infiltration Resistance:<br/>&gt; 12 psf</p> <p>Can be Configured<br/>for ADA Compliance<br/><input type="checkbox"/> Not-Applicable<br/><input checked="" type="checkbox"/> Yes</p> <p>Can be configured to meet<br/>Windborne Debris Impact<br/>Resistance to<br/>ASTM E1886 / ASTM E1996<br/><input checked="" type="checkbox"/> Not Rated<br/><input type="checkbox"/> Missile "D"<br/><input type="checkbox"/> Missile "E"</p> <p>Product Type may be<br/>configured for<br/>Blast Resistant Installation<br/><input type="checkbox"/> No<br/><input checked="" type="checkbox"/> Yes<sup>6</sup></p> |  <p><math>U_{COG}=0.116</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4<sup>7</sup><br/>example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)</p> |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NFRC Size <sup>1</sup> 24" x 59" $U_{Window}=$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup>                                                                                                                                                                                               | CI= (NFRC 501) <sup>2</sup>                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NAFS Size <sup>3</sup> 36" x 60" $U_{Window}=0.20$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup>                                                                                                                                                                                           | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p><math>U_{COG}=0.121</math> Btu/hr-ft<sup>2</sup>-°F Double Silver Low-E #2 x 90% Argon x Low-E No.4<br/>example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)</p>              |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NFRC Size <sup>1</sup> 24" x 59" $U_{Window}=0.28$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup>                                                                                                                                                                                           | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NAFS Size <sup>3</sup> 36" x 60" $U_{Window}=0.20$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup>                                                                                                                                                                                           | CRF= 75 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p><math>U_{COG}=0.184</math> Btu/hr-ft<sup>2</sup>-°F Triple Silver Low-E #2 x 90% Argon x Uncoated<br/>example: SNX 62/27 (Warm-Edge Spacer)</p>                                                |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NFRC Size <sup>1</sup> 24" x 59" $U_{Window}=0.24$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup>                                                                                                                                                                                           | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NAFS Size <sup>3</sup> 36" x 60" $U_{Window}=0.22$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup>                                                                                                                                                                                           | CRF= 69 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p><math>U_{COG}=0.188</math> Btu/hr-ft<sup>2</sup>-°F Double Silver Low-E #2 x 90% Argon x Uncoated<br/>example: SN-68 or Solarban60 (Warm-Edge Spacer)</p>                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NFRC Size <sup>1</sup> 24" x 59" $U_{Window}=0.24$ Btu/h-ft <sup>2</sup> -°f <sup>2</sup>                                                                                                                                                                                           | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | NAFS Size <sup>3</sup> 36" x 60" $U_{Window}=0.22$ Btu/h-ft <sup>2</sup> -°f <sup>4</sup>                                                                                                                                                                                           | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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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

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

# 8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

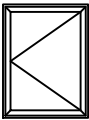
## Product Information - OS Casement w/ 1" Hybrid V.I.G. (Inboard)



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### PERFORMANCE

The Series 8325 window is a thermally broken mainframe and sash that exceeds the performance specification criteria as required by ANSI/AAMA for AW (Architectural Grade) windows.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <div>Project Out Casement (POC)</div> <div>  </div> <div>                     NAFS / AAMA 101<br/>                     Test Size 36" x 60"<br/>                     Class:<br/>                     AW<br/>                     Performance Grade:<br/>                     80<br/>                     Air Infiltration:<br/>                     &lt;0.03 CFM<br/>                     Water Infiltration Resistance:<br/>                     &gt; 12 psf                 </div> | <div>  <math>U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}</math> Triple Silver Low-E #2 x 90% Argon x Triple Silver Low-E #4<br/>                     example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer)                 </div> |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NFRC Size <sup>1</sup> 24" x 59" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                                                                                    | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NAFS Size <sup>3</sup> 36" x 60" $U_{Window}=0.19 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                                                                                    | CRF= -- (AAMA 1503) <sup>5</sup> (not calculated) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <div>  <math>U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}</math> Uncoated x 90% Argon x Triple Silver Low-E #2<br/>                     example: Cardinal 366 (Warm-Edge Spacer)                 </div>                              |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NFRC Size <sup>1</sup> 24" x 59" $U_{Window}=0.35 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                                                                                    | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NAFS Size <sup>3</sup> 36" x 60" $U_{Window}=0.26 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                                                                                    | CRF= 75 (AAMA 1503) <sup>5</sup>                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <div>  <math>U_{COG}=0.279 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}</math> Uncoated V.I.G. x 90% Argon x Uncoated<br/>                     example: Clear over Clear V.I.G. (Warm-Edge Spacer)                 </div>                          |                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NFRC Size <sup>1</sup> 24" x 59" $U_{Window}=0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$                                                                                                                                                                                                                                    | CI= -- (NFRC 501) <sup>2</sup> (not simulated)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NAFS Size <sup>3</sup> 36" x 60" $U_{Window}=0.34 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$                                                                                                                                                                                                                                    | CRF= 69 (AAMA 1503) <sup>5</sup>                  |
| Can be Configured for ADA Compliance<br><input type="checkbox"/> Not-Applicable<br><input checked="" type="checkbox"/> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                    |                                                   |
| Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996<br><input checked="" type="checkbox"/> Not Rated<br><input type="checkbox"/> Missile "D"<br><input type="checkbox"/> Missile "E"                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                    |                                                   |
| Product Type may be configured for Blast Resistant Installation<br><input checked="" type="checkbox"/> No<br><input type="checkbox"/> Yes <sup>6</sup>                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                    |                                                   |

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)

<sup>7</sup> Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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