

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

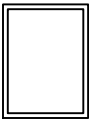
Product Information - Fixed w/ 1" I.G.



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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.

Fixed (Picture Window)  NAFS / AAMA 101 Test Size 60" x 99" Class: AW Performance Grade: 100 Air Infiltration: <0.0 CFM Water Infiltration Resistance: > 12 psf		$U_{COG}=0.20 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Low-E No.4 ⁷ example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL (Warm-Edge Spacer)	
		NFRC Size ¹ 47" x 59" $U_{Window}=0.26 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
		NAFS Size ³ 60" x 99" $U_{Window}=0.24 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= -- (AAMA 1503) ⁵ (not simulated)
Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E" Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes ⁶		$U_{COG}=0.24 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70 (Warm-Edge Spacer)	
		NFRC Size ¹ 47" x 59" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
		NAFS Size ³ 60" x 99" $U_{Window}=0.28 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 75 (AAMA 1503) ⁵
		$U_{COG}=0.29 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Double Silver Low-E #2 x 100% Air x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)	
		NFRC Size ¹ 47" x 59" $U_{Window}=0.34 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
		NAFS Size ³ 60" x 99" $U_{Window}=0.33 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 69 (AAMA 1503) ⁵
		$U_{COG}=0.34 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Single Silver Low-E #2 x 100% Air x Uncoated example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)	
		NFRC Size ¹ 47" x 59" $U_{Window}=0.38 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
		NAFS Size ³ 60" x 99" $U_{Window}=0.36 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= -- (AAMA 1503) ⁵ (not simulated)
		$U_{COG}=0.47 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 100% Air x Uncoated example: Clear over Clear (Air, Aluminum Box-Spacer)	
		NFRC Size ¹ 47" x 59" $U_{Window}=0.48 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
		NAFS Size ³ 60" x 99" $U_{Window}=0.47 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 58 (AAMA 1503) ⁵

This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards. Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product. Please contact WINCO for project specific information.

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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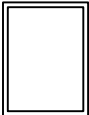
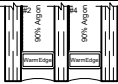
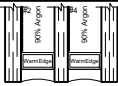
Product Information - Fixed w/ Multi-Cavity I.G.



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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.

Fixed (Picture Window)  NAFS / AAMA 101 Test Size 60" x 99" Class: AW Performance Grade: 100 Air Infiltration: <0.0 CFM Water Infiltration Resistance: > 12 psf Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E" Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes⁶	 $U_{COG}=0.116$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4⁷ example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge) <table><tr><td>NFRC Size¹ 47" x 59" $U_{Window}=0.18$ Btu/h-ft²-°f²</td><td>CI= -- (NFRC 501)² (not simulated)</td></tr><tr><td>NAFS Size³ 60" x 99" $U_{Window}=0.16$ Btu/h-ft²-°f⁴</td><td>CRF= -- (AAMA 1503)⁵ (not simulated)</td></tr></table>	NFRC Size ¹ 47" x 59" $U_{Window}=0.18$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)	NAFS Size ³ 60" x 99" $U_{Window}=0.16$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not simulated)
	NFRC Size ¹ 47" x 59" $U_{Window}=0.18$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)			
	NAFS Size ³ 60" x 99" $U_{Window}=0.16$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not simulated)			
	 $U_{COG}=0.121$ Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Low-E No.4 example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer) <table><tr><td>NFRC Size¹ 47" x 59" $U_{Window}=0.18$ Btu/h-ft²-°f²</td><td>CI= -- (NFRC 501)² (not simulated)</td></tr><tr><td>NAFS Size³ 60" x 99" $U_{Window}=0.17$ Btu/h-ft²-°f⁴</td><td>CRF= 75 (AAMA 1503)⁵</td></tr></table>	NFRC Size ¹ 47" x 59" $U_{Window}=0.18$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)	NAFS Size ³ 60" x 99" $U_{Window}=0.17$ Btu/h-ft ² -°f ⁴	CRF= 75 (AAMA 1503) ⁵
	NFRC Size ¹ 47" x 59" $U_{Window}=0.18$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)			
	NAFS Size ³ 60" x 99" $U_{Window}=0.17$ Btu/h-ft ² -°f ⁴	CRF= 75 (AAMA 1503) ⁵			
	 $U_{COG}=0.184$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer) <table><tr><td>NFRC Size¹ 47" x 59" $U_{Window}=0.24$ Btu/h-ft²-°f²</td><td>CI= -- (NFRC 501)² (not simulated)</td></tr><tr><td>NAFS Size³ 60" x 99" $U_{Window}=0.22$ Btu/h-ft²-°f⁴</td><td>CRF= 69 (AAMA 1503)⁵</td></tr></table>	NFRC Size ¹ 47" x 59" $U_{Window}=0.24$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)	NAFS Size ³ 60" x 99" $U_{Window}=0.22$ Btu/h-ft ² -°f ⁴	CRF= 69 (AAMA 1503) ⁵
	NFRC Size ¹ 47" x 59" $U_{Window}=0.24$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)			
	NAFS Size ³ 60" x 99" $U_{Window}=0.22$ Btu/h-ft ² -°f ⁴	CRF= 69 (AAMA 1503) ⁵			
	 $U_{COG}=0.188$ Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer) <table><tr><td>NFRC Size¹ 47" x 59" $U_{Window}=0.24$ Btu/h-ft²-°f²</td><td>CI= -- (NFRC 501)² (not simulated)</td></tr><tr><td>NAFS Size³ 60" x 99" $U_{Window}=0.22$ Btu/h-ft²-°f⁴</td><td>CRF= -- (AAMA 1503)⁵ (not simulated)</td></tr></table>	NFRC Size ¹ 47" x 59" $U_{Window}=0.24$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)	NAFS Size ³ 60" x 99" $U_{Window}=0.22$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not simulated)
NFRC Size ¹ 47" x 59" $U_{Window}=0.24$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)				
NAFS Size ³ 60" x 99" $U_{Window}=0.22$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not simulated)				

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

Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product

Please contact WINCO for project specific information

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ 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

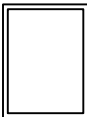
Product Information - Fixed w/ 1" Hybrid V.I.G. (Inboard)



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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.

Fixed (Picture Window)  NAFS / AAMA 101 Test Size 60" x 99" Class: AW Performance Grade: 100 Air Infiltration: <0.0 CFM Water Infiltration Resistance: > 12 psf	 $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Triple Silver Low-E #4 example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer)	NFRC Size ¹ 47" x 59" $U_{Window}=0.18 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 99" $U_{Window}=0.15 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= -- (AAMA 1503) ⁵ (not simulated)	
	 $U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 90% Argon x Triple Silver Low-E #2 example: Cardinal 366 (Warm-Edge Spacer)	NFRC Size ¹ 47" x 59" $U_{Window}=0.25 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 99" $U_{Window}=0.23 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 75 (AAMA 1503) ⁵	
	 $U_{COG}=0.279 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated V.I.G. x 90% Argon x Uncoated example: Clear over Clear V.I.G. (Warm-Edge Spacer)	NFRC Size ¹ 47" x 59" $U_{Window}=0.34 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 99" $U_{Window}=0.32 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 69 (AAMA 1503) ⁵	
	Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes		
	Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"		
	Product Type may be configured for Blast Resistant Installation ☒ No ☐ Yes ⁶		

This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards. Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product. Please contact WINCO for project specific information.

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ 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

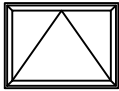
Product Information - PO Awning w/ 1" I.G.



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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.

Project Out Awning (PO)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 100 Air Infiltration: <0.01 CFM Water Infiltration Resistance: > 12 psf	 $U_{COG}=0.20$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4 ⁷ example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL (Warm-Edge Spacer)	NFRC Size ¹ 59" x 24" $U_{Window}=0.36$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		NAFS Size ³ 60" x 36" $U_{Window}=0.32$ Btu/h-ft ² -°f ⁴ CRF= -- (AAMA 1503) ⁵ (not simulated)	
	 $U_{COG}=0.24$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70 (Warm-Edge Spacer)	NFRC Size ¹ 59" x 24" $U_{Window}=0.39$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		NAFS Size ³ 60" x 36" $U_{Window}=0.35$ Btu/h-ft ² -°f ⁴ CRF= 75 (AAMA 1503) ⁵	
	 $U_{COG}=0.29$ Btu/hr-ft²-°F Double Silver Low-E #2 x 100% Air x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)	NFRC Size ¹ 59" x 24" $U_{Window}=0.41$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		NAFS Size ³ 60" x 36" $U_{Window}=0.39$ Btu/h-ft ² -°f ⁴ CRF= 69 (AAMA 1503) ⁵	
Can be Configured for ADA Compliance ☐ Not-Applicable ☒ Yes	 $U_{COG}=0.34$ Btu/hr-ft²-°F Single Silver Low-E #2 x 100% Air x Uncoated example: ES73 or Energy Advantage (Air, Aluminum Box-Spacer)	NFRC Size ¹ 59" x 24" $U_{Window}=0.44$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"		NAFS Size ³ 60" x 36" $U_{Window}=0.41$ Btu/h-ft ² -°f ⁴ CRF= -- (AAMA 1503) ⁵ (not simulated)	
Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes ⁶	 $U_{COG}=0.47$ Btu/hr-ft²-°F Uncoated x 100% Air x Uncoated example: Clear over Clear (Air, Aluminum Box-Spacer)	NFRC Size ¹ 59" x 24" $U_{Window}=0.51$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		NAFS Size ³ 60" x 36" $U_{Window}=0.50$ Btu/h-ft ² -°f ⁴ CRF= 58 (AAMA 1503) ⁵	

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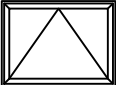
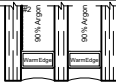
Product Information - PO Awning w/ Multi-Cavity I.G.



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PERFORMANCE

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Project Out Awning (PO)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 100 Air Infiltration: <0.01 CFM Water Infiltration Resistance: > 12 psf Can be Configured for ADA Compliance ☐ Not-Applicable ☒ Yes Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E" Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes⁶	 $U_{COG}=0.116$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4⁷ example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)	NFRC Size¹ 59" x 24" $U_{Window}=0.28$ Btu/h-ft²-°f² CI= -- (NFRC 501)² (not simulated)	NAFS Size³ 60" x 36" $U_{Window}=0.20$ Btu/h-ft²-°f⁴ CRF= -- (AAMA 1503)⁵ (not simulated)	
	 $U_{COG}=0.121$ Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Low-E No.4 example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)	NFRC Size¹ 59" x 24" $U_{Window}=0.28$ Btu/h-ft²-°f² CI= -- (NFRC 501)² (not simulated)	NAFS Size³ 60" x 36" $U_{Window}=0.20$ Btu/h-ft²-°f⁴ CRF= 75 (AAMA 1503)⁵	
	 $U_{COG}=0.184$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)	NFRC Size¹ 59" x 24" $U_{Window}=0.24$ Btu/h-ft²-°f² CI= -- (NFRC 501)² (not simulated)	NAFS Size³ 60" x 36" $U_{Window}=0.22$ Btu/h-ft²-°f⁴ CRF= 69 (AAMA 1503)⁵	
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This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards.

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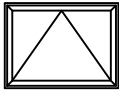
Product Information - PO Awning w/ 1" Hybrid I.G. (Outboard)



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Project Out Awning (PO)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 100 Air Infiltration: <0.01 CFM Water Infiltration Resistance: > 12 psf Can be Configured for ADA Compliance ☐ Not-Applicable ☒ Yes Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E" Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes⁶	 $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Tripple Silver #5 example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer)	
	NFRC Size ¹ 59" x 24" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 36" $U_{Window}=0.25 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= -- (AAMA 1503) ⁵ (not simulated)
	 $U_{COG}=0.100 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated example: Cardinal 366 (Warm-Edge Spacer)	
	NFRC Size ¹ 59" x 24" $U_{Window}=0.32 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 36" $U_{Window}=0.27 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 75 (AAMA 1503) ⁵
	 $U_{COG}=0.276 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated V.I.G. x 90% Argon x Uncoated example: Clear V.I.G. over Clear (Warm-Edge Spacer)	
	NFRC Size ¹ 59" x 24" $U_{Window}=0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 36" $U_{Window}=0.38 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 69 (AAMA 1503) ⁵

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

Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product

Please contact WINCO for project specific information

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ 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

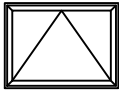
Product Information - PO Awning w/ 1" Hybrid I.G. (Inboard)



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.

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

This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards. Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product. Please contact WINCO for project specific information.

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ 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

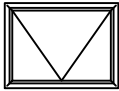
Product Information - PI Hopper w/ 1" I.G.



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.

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

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

Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product

Please contact WINCO for project specific information

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ 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

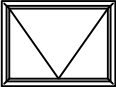
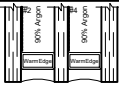
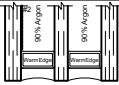
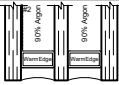
Product Information - PI Hopper w/ Multi-Cavity I.G.



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.

Project In Hopper (PI)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 80 Air Infiltration: <0.07 CFM Water Infiltration Resistance: > 12 psf Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E" Product Type may be configured for Blast Resistant Installation ☒ No ☐ Yes⁶	 $U_{COG}=0.116$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4⁷ example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)	NFRC Size¹ 59" x 24" $U_{Window}=0.28$ Btu/h-ft²-°f² NAFS Size³ 60" x 36" $U_{Window}=0.20$ Btu/h-ft²-°f⁴	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction CRF= -- (AAMA 1503)⁵ (not simulated)
	 $U_{COG}=0.121$ Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Low-E No.4 example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)	NFRC Size¹ 59" x 24" $U_{Window}=0.28$ Btu/h-ft²-°f² NAFS Size³ 60" x 36" $U_{Window}=0.20$ Btu/h-ft²-°f⁴	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction CRF= 75 (AAMA 1503)⁵
	 $U_{COG}=0.184$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)	NFRC Size¹ 59" x 24" $U_{Window}=0.24$ Btu/h-ft²-°f² NAFS Size³ 60" x 36" $U_{Window}=0.22$ Btu/h-ft²-°f⁴	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction CRF= 69 (AAMA 1503)⁵
	 $U_{COG}=0.188$ Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)	NFRC Size¹ 59" x 24" $U_{Window}=0.24$ Btu/h-ft²-°f² NAFS Size³ 60" x 36" $U_{Window}=0.22$ Btu/h-ft²-°f⁴	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction CRF= -- (AAMA 1503)⁵ (not simulated)

This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards. Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product. Please contact WINCO for project specific information.

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ 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

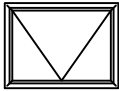
Product Information - PI Hopper w/ 1" Hybrid V.I.G. (Outboard)



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.

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

This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards. Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product. Please contact WINCO for project specific information.

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ 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

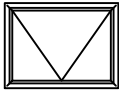
Product Information - PI Hopper w/ 1" Hybrid V.I.G. (Inboard)



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.

Project In Hopper (PI)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 80 Air Infiltration: <0.07 CFM Water Infiltration Resistance: > 12 psf	 $U_{COG}=0.079$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Triple Silver Low-E #4 example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer)		
		NFRC Size ¹ 59" x 24" $U_{Window}=0.30$ Btu/h-ft ² -°f ²	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		NAFS Size ³ 60" x 36" $U_{Window}=0.19$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not simulated)
	 $U_{COG}=0.173$ Btu/hr-ft²-°F Uncoated x 90% Argon x Triple Silver Low-E #2 example: Cardinal 366 (Warm-Edge Spacer)		
		NFRC Size ¹ 59" x 24" $U_{Window}=0.35$ Btu/h-ft ² -°f ²	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		NAFS Size ³ 60" x 36" $U_{Window}=0.26$ Btu/h-ft ² -°f ⁴	CRF= 75 (AAMA 1503) ⁵
	 $U_{COG}=0.279$ Btu/hr-ft²-°F Uncoated V.I.G. x 90% Argon x Uncoated example: Clear over Clear V.I.G. (Warm-Edge Spacer)		
		NFRC Size ¹ 59" x 24" $U_{Window}=0.41$ Btu/h-ft ² -°f ²	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		NAFS Size ³ 60" x 36" $U_{Window}=0.34$ Btu/h-ft ² -°f ⁴	CRF= 69 (AAMA 1503) ⁵
	Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes		
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"			
Product Type may be configured for Blast Resistant Installation ☒ No ☐ Yes ⁶			

This information is based on current product design, sealed dual glazing, warm edge spacers and testing standards. Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product. Please contact WINCO for project specific information.

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

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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

⁷ Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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

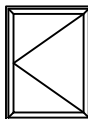
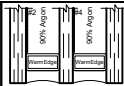
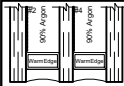
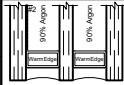
Product Information - OS Casement w/ Multi-Cavity I.G.



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.

Project Out Casement (POC)  NAFS / AAMA 101 Test Size 36" x 60" Class: AW Performance Grade: 80 Air Infiltration: <0.03 CFM Water Infiltration Resistance: > 12 psf Can be Configured for ADA Compliance ☐ Not-Applicable ☒ Yes Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E" Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes⁶	 $U_{COG}=0.116$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Low-E No.4⁷ example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)		
	NFRC Size ¹ 24" x 59" $U_{Window}=$ Btu/h-ft ² -°f ²	CI= (NFRC 501) ²	
	NAFS Size ³ 36" x 60" $U_{Window}=0.20$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not simulated)	
	 $U_{COG}=0.121$ Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Low-E No.4 example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)		
	NFRC Size ¹ 24" x 59" $U_{Window}=0.28$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)	
	NAFS Size ³ 36" x 60" $U_{Window}=0.20$ Btu/h-ft ² -°f ⁴	CRF= 75 (AAMA 1503) ⁵	
	 $U_{COG}=0.184$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)		
	NFRC Size ¹ 24" x 59" $U_{Window}=0.24$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)	
	NAFS Size ³ 36" x 60" $U_{Window}=0.22$ Btu/h-ft ² -°f ⁴	CRF= 69 (AAMA 1503) ⁵	
 $U_{COG}=0.188$ Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)			
NFRC Size ¹ 24" x 59" $U_{Window}=0.24$ Btu/h-ft ² -°f ²	CI= -- (NFRC 501) ² (not simulated)		
NAFS Size ³ 36" x 60" $U_{Window}=0.22$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not simulated)		

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

Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product

Please contact WINCO for project specific information

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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⁷ Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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

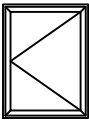
Product Information - OS Casement w/ 1" Hybrid V.I.G. (Inboard)



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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.

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

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

Solar Heat Gain Coefficient (SHGC) is not predicted since this is highly variable with Glass Tint & Low-E Coating Product

Please contact WINCO for project specific information

¹ NFRC 101 Test & Rating Size

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

³ AAMA 101 (NAFS) Gateway Test Size

⁴ Based on LBNL Window Simulations following NFRC Protocols

⁵ AAMA 101 Test Size and AAMA 1503 Test Protocol

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

⁷ Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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