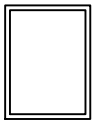
PERFORMANCE

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 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] 47" x 59" U_{Window}= 0.27 Btu/h-ft²-°f [2]	CI= 56 (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.24 Btu/h-ft²-°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] 47" x 59" U_{Window}= 0.31 Btu/h-ft²-°f [2]	CI= 65 (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.29 Btu/h-ft²-°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] 47" x 59" U_{Window}= 0.35 Btu/h-ft²-°f [2]	CI= 61 (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.33 Btu/h-ft²-°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] 47" x 59" U_{Window}= 0.39 Btu/h-ft²-°f [2]	CI= 60 (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.37 Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"		
	 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] 47" x 59" U_{Window}= 0.49 Btu/h-ft²-°f [2]	CI= 55 (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.48 Btu/h-ft²-°f [4]	CRF= 58 (AAMA 1503) [5]
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

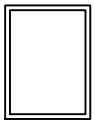
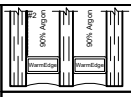
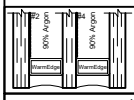
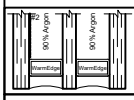
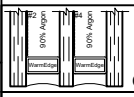
[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[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*

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}=0.184 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] 47" x 59" U_{Window}= 0.25 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°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] 47" x 59" U_{Window}= 0.19 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
		U_{COG}=0.20 Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)
	NFRC Size [1] 47" x 59" U_{Window}= 0.24 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes		
		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 + SNX 62/27 or Solarban70 (Warm-Edge)
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"	NFRC Size [1] 47" x 59" U_{Window}= 0.19 Btu/h-ft²-°f [2]	CI= 60 (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
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)

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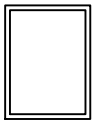
PERFORMANCE

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}=0.261 Btu/hr-ft²-°F Uncoated V.I.G. x 90% Argon x Uncoated example: Clear V.I.G. over Clear (Warm-Edge Spacer)	
	NFRC Size [1] 47" x 59" U_{Window}= 0.33 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.171 Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: Cardinal 366 (Warm-Edge Spacer)	
	NFRC Size [1] 47" x 59" U_{Window}= 0.17 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.047 Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Tripple Silver #5 example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer)	
	NFRC Size [1] 47" x 59" U_{Window}= 0.16 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°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]		

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

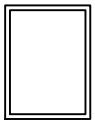
[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[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*

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}=0.258 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] 47" x 59" U_{Window}= 0.33 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.053 Btu/hr-ft²-°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}= 0.26 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.047 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] 47" x 59" U_{Window}= 0.16 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 99" U_{Window}= -- Btu/h-ft²-°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]		

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

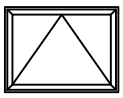
[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[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*

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}= 0.39 Btu/h-ft²-°f [2]	CI= 55 (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.35 Btu/h-ft²-°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}= 0.41 Btu/h-ft²-°f [2]	CI= 62 (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.37 Btu/h-ft²-°f [4]	CRF= 68 (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}= 0.44 Btu/h-ft²-°f [2]	CI= 60 (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.41 Btu/h-ft²-°f [4]	CRF= 63 (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)	
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"	NFRC Size [1] 59" x 24" U_{Window}= 0.47 Btu/h-ft²-°f [2]	CI= 58 (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.44 Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.47 Btu/hr-ft²-°F Uncoated x 100% Air x Uncoated example: Clear over Clear (Air, Aluminum Box-Spacer)	
Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes [6]	NFRC Size [1] 59" x 24" U_{Window}= 0.54 Btu/h-ft²-°f [2]	CI= 54 (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.52 Btu/h-ft²-°f [4]	CRF= 55 (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

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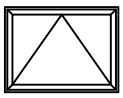
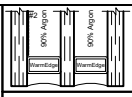
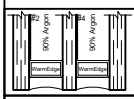
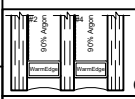
Project Out Awning (PO)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 100 Air Infiltration: <0.01 CFM Water Infiltration Resistance: >12 psf	 U_{COG}=0.184 Btu/hr-ft²-°F Double Silver Low-E #2 x 90% Argon x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)	
	NFRC Size [1] 59" x 24" U_{Window}= 0.38 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°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] 59" x 24" U_{Window}= 0.34 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.20 Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)	
	NFRC Size [1] 59" x 24" U_{Window}= 0.37 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Can be Configured for ADA Compliance ☐ Not-Applicable ☒ Yes		
	 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 + SNX 62/27 or Solarban70 (Warm-Edge)	
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"	NFRC Size [1] 59" x 24" U_{Window}= 0.34 Btu/h-ft²-°f [2]	CI= 58 (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes [6]		

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[1] NFRC 101 Test & Rating Size

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[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

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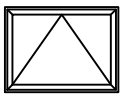
PERFORMANCE

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}=0.261 Btu/hr-ft²-°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}= 0.43 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.171 Btu/hr-ft²-°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}= 0.33 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.047 Btu/hr-ft²-°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}= 0.32 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°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]		

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

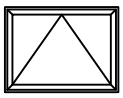
[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[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*

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}=0.258 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}= 0.43 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.053 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}= 0.38 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.047 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}= 0.33 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°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]		

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

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[4] Based on LBNL Window Simulations following NFRC Protocols

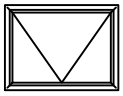
[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[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*

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	 example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL (Warm-Edge Spacer)	
	NFRC Size [1] 59" x 24" U_{Window}= 0.39 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= 0.35 Btu/h-ft²-°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}= 0.41 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= 0.37 Btu/h-ft²-°f [4]	CRF= 68 (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}= 0.44 Btu/h-ft²-°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-ft²-°f [4]	CRF= 63 (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"	 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}= 0.47 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= 0.44 Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 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}= 0.54 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= 0.52 Btu/h-ft²-°f [4]	CRF= 55 (AAMA 1503) [5]
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.

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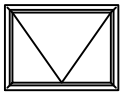
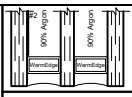
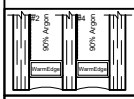
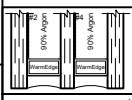
PERFORMANCE

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 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}=0.184 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] 59" x 24" U_{Window}= 0.38 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°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] 59" x 24" U_{Window}= 0.34 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.20 Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)	
	NFRC Size [1] 59" x 24" U_{Window}= 0.37 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes		
	 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 + SNX 62/27 or Solarban70 (Warm-Edge)	
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	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Product Type may be configured for Blast Resistant Installation ☒ No ☐ Yes [6]		

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PERFORMANCE

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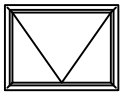
Project In Hopper (PI)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 80 Air Infiltration: < 0.07 CFM Water Infiltration Resistance: > 12 psf	 U_{COG}=0.261 Btu/hr-ft²-°F Uncoated V.I.G. x 90% Argon x Uncoated example: Clear V.I.G. over Clear (Warm-Edge Spacer)	
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	 U_{COG}=0.171 Btu/hr-ft²-°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}= 0.33 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.047 Btu/hr-ft²-°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}= 0.32 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes		
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Product Type may be configured for Blast Resistant Installation ☒ No ☐ Yes [6]		

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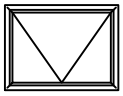
Project In Hopper (PI)  NAFS / AAMA 101 Test Size 60" x 36" Class: AW Performance Grade: 80 Air Infiltration: < 0.07 CFM Water Infiltration Resistance: > 12 psf	 U_{COG}=0.258 Btu/hr-ft²-°F Uncoated V.I.G. x 90% Argon x Uncoated example: Clear over Clear V.I.G. (Warm-Edge Spacer)	
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	 U_{COG}=0.053 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}= 0.38 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.047 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}= 0.33 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 36" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
Can be Configured for ADA Compliance ☒ Not-Applicable ☐ Yes		
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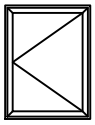
Project Out Casement (POC)  NAFS / AAMA 101 Test Size 36" x 60" Class: AW Performance Grade: 80 Air Infiltration: < 0.03 CFM Water Infiltration Resistance: > 12 psf	 example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL (Warm-Edge Spacer)	
	NFRC Size [1] 24" x 59" U_{Window} = 0.39 Btu/h-ft²-°f [2]	CI= 55 (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window} = 0.35 Btu/h-ft²-°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] 24" x 59" U_{Window} = 0.41 Btu/h-ft²-°f [2]	CI= 62 (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window} = 0.37 Btu/h-ft²-°f [4]	CRF= 68 (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] 24" x 59" U_{Window} = 0.44 Btu/h-ft²-°f [2]	CI= 60 (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window} = 0.41 Btu/h-ft²-°f [4]	CRF= 63 (AAMA 1503) [5]
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	NAFS Size [3] 36" x 60" U_{Window} = 0.44 Btu/h-ft²-°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)	
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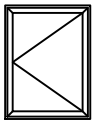
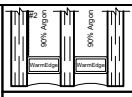
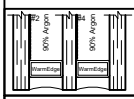
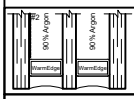
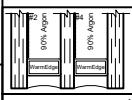
[6] Blast Resistant Configuration is highly dependant on Product Size, Blast Design Load(s) and Project Specific Glass, Frame & Connection Response (Required Level of Protection, Allowable Hazard Level)

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

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	 U_{COG}=0.184 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}= Btu/h-ft²-°f [2]	CI= (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window}= -- Btu/h-ft²-°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}= 0.34 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 36" x 60" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.20 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}= 0.37 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 36" x 60" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 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 + SNX 62/27 or Solarban70 (Warm-Edge)	
	NFRC Size [1] 24" x 59" U_{Window}= 0.34 Btu/h-ft²-°f [2]	CI= 58 (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window}= -- Btu/h-ft²-°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]		

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

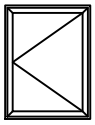
[5] AAMA 101 Test Size and AAMA 1503 Test Protocol

[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*

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		U_{COG}=0.261 Btu/hr-ft²-°F Uncoated V.I.G. x 90% Argon x Uncoated example: Clear V.I.G. over Clear (Warm-Edge Spacer)	
	NFRC Size [1] 24" x 59"	U_{Window}= 0.43 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 36" x 60"	U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
		U_{COG}=0.171 Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: Cardinal 366 (Warm-Edge Spacer)	
	NFRC Size [1] 24" x 59"	U_{Window}= 0.33 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 36" x 60"	U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
		U_{COG}=0.047 Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Tripple Silver #5 example: Cardinal 366 + Cardinal 366 (Warm-Edge Spacer)	
	NFRC Size [1] 24" x 59"	U_{Window}= Btu/h-ft²-°f [2]	CI= (NFRC 501) [2]
	NAFS Size [3] 36" x 60"	U_{Window}= -- Btu/h-ft²-°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]			

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[1] NFRC 101 Test & Rating Size

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

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PERFORMANCE

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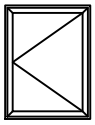
Project Out Casement (POC)  NAFS / AAMA 101 Test Size 36" x 60" Class: AW Performance Grade: 80 Air Infiltration: < 0.03 CFM Water Infiltration Resistance: > 12 psf	 U_{COG}=0.258 Btu/hr-ft²-°F Uncoated V.I.G. x 90% Argon x Uncoated example: Clear over Clear V.I.G. (Warm-Edge Spacer)	
	NFRC Size [1] 24" x 59" U_{Window}= 0.43 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 36" x 60" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.053 Btu/hr-ft²-°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}= 0.38 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 36" x 60" U_{Window}= -- Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5] (not simulated)
	 U_{COG}=0.047 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] 24" x 59" U_{Window}= 0.33 Btu/h-ft²-°f [2]	CI= -- (NFRC 501) [2] (not simulated)
	NAFS Size [3] 36" x 60" U_{Window}= -- Btu/h-ft²-°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]		

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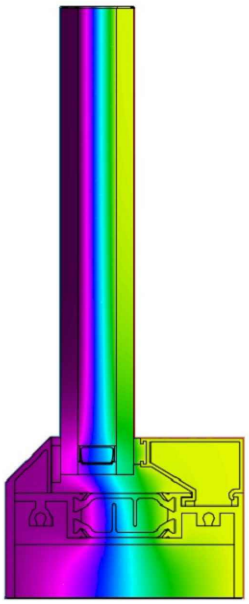
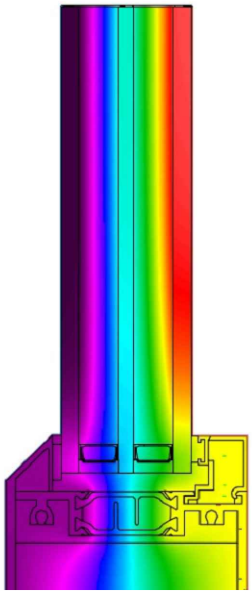
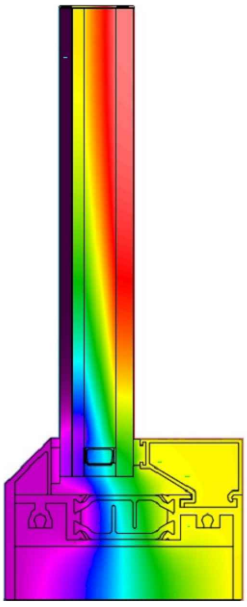


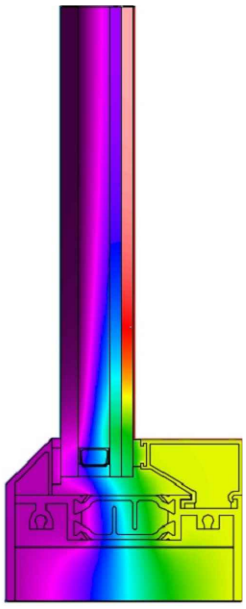
Fixed Configuration with Standard I.G.
for performance values refer to sheet I/1a



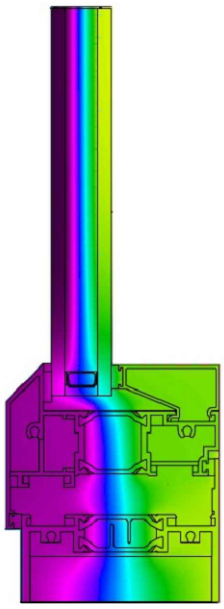
Fixed Configuration with Multi-Cavity I.G.
for performance values refer to sheet I/1c



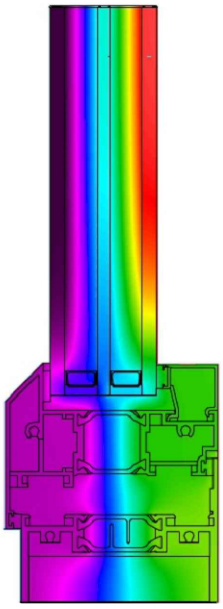
Fixed Configuration with V.I.G. - Oriented Outboard
for performance values refer to sheet I/1e



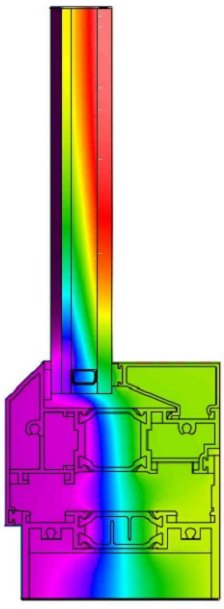
Fixed Configuration with V.I.G. - Oriented Inboard
for performance values refer to sheet I/1g



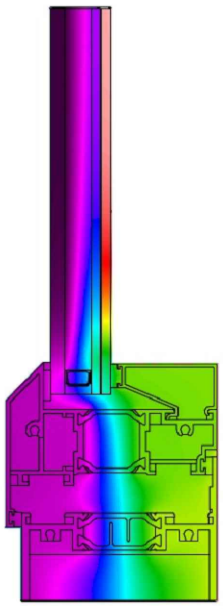
Projected Configuration with Standard I.G.
for performance values refer to sheet I/1b



Projected Configuration with Multi-Cavity I.G.
for performance values refer to sheet I/1d



Projected Configuration with V.I.G. - Oriented Outboard
for performance values refer to sheet I/1f



Projected Configuration with V.I.G. - Oriented Inboard
for performance values refer to sheet I/1h