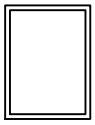
PERFORMANCE

The Series 1450 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 Tripple Silver Low-E #2 x 90% Argon x Low-E No.4 example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL
	NFRC Size [1] 47" x 59" U_{Window}= 0.34 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.29 Btu/h-ft²-°f [4]	CRF= 65 (AAMA 1503) [5]
		U_{COG}=0.24 Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70
	NFRC Size [1] 47" x 59" U_{Window}= 0.38 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.34 Btu/h-ft²-°f [4]	CRF= 65 (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
	NFRC Size [1] 47" x 59" U_{Window}= 0.42 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.38 Btu/h-ft²-°f [4]	CRF= 65 (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}= 0.45 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.41 Btu/h-ft²-°f [4]	CRF= __ (AAMA 1503) [5]
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}= 0.56 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 99" U_{Window}= 0.52 Btu/h-ft²-°f [4]	CRF= __ (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

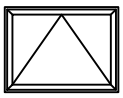
[4] Based on LBNL Window Simulations following NFRC Protocols

[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)

PERFORMANCE

The Series 1450 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: < 0.02 CFM Water Infiltration Resistance: > 12 psf		U_{COG}=0.20 Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Low-E No.4 example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL
	NFRC Size [1] 59" x 24" U_{Window}= 0.45 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.39 Btu/h-ft²-°f [4]	CRF= 59 (AAMA 1503) [5]
		U_{COG}=0.24 Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70
	NFRC Size [1] 59" x 24" U_{Window}= 0.48 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.42 Btu/h-ft²-°f [4]	CRF= 59 (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
	NFRC Size [1] 59" x 24" U_{Window}= 0.51 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.46 Btu/h-ft²-°f [4]	CRF= 59 (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}= 0.53 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.48 Btu/h-ft²-°f [4]	CRF= __ (AAMA 1503) [5]
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}= 0.61 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 60" x 36" U_{Window}= 0.58 Btu/h-ft²-°f [4]	CRF= __ (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

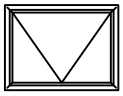
[4] Based on LBNL Window Simulations following NFRC Protocols

[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)

PERFORMANCE

The Series 1450 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: 100 Air Infiltration: <0.01 CFM Water Infiltration Resistance: >12 psf		U_{COG}=0.20 Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Low-E No.4 example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL
	NFRC Size [1] 59" x 24" U_{Window}= 0.45 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 99" U_{Window}= 0.39 Btu/h-ft²-°f [4]	CRF= 59 (AAMA 1503) [5]
		U_{COG}=0.24 Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70
	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 99" U_{Window}= 0.42 Btu/h-ft²-°f [4]	CRF= 59 (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
	NFRC Size [1] 59" x 24" U_{Window}= 0.50 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 99" U_{Window}= 0.45 Btu/h-ft²-°f [4]	CRF= 59 (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}= 0.53 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 99" U_{Window}= 0.49 Btu/h-ft²-°f [4]	CRF= 59 (AAMA 1503) [5]
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] 59" x 24" U_{Window}= 0.60 Btu/h-ft²-°f [2]	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
	NAFS Size [3] 60" x 99" U_{Window}= 0.57 Btu/h-ft²-°f [4]	CRF= -- (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

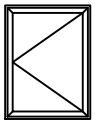
[4] Based on LBNL Window Simulations following NFRC Protocols

[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)

PERFORMANCE

The Series 1450 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: 100 Air Infiltration: <0.07 CFM Water Infiltration Resistance: >12 psf		U_{COG}=0.20 Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Low-E No.4 example: SNX 62/27 or Solarban70 + IS20 or Sungate ThermL
	NFRC Size [1] 24" x 59" U_{Window}= 0.45 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window}= 0.39 Btu/h-ft²-°f [4]	CRF= 59 (AAMA 1503) [5]
		U_{COG}=0.24 Btu/hr-ft²-°F Tripple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70
	NFRC Size [1] 24" x 59" U_{Window}= 0.47 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window}= 0.42 Btu/h-ft²-°f [4]	CRF= 59 (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
	NFRC Size [1] 24" x 59" U_{Window}= 0.50 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window}= 0.45 Btu/h-ft²-°f [4]	CRF= 59 (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] 24" x 59" U_{Window}= 0.53 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window}= 0.49 Btu/h-ft²-°f [4]	CRF= -- (AAMA 1503) [5]
		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] 24" x 59" U_{Window}= 0.60 Btu/h-ft²-°f [2]	CI= __ (NFRC 501) [2]
	NAFS Size [3] 36" x 60" U_{Window}= 0.49 Btu/h-ft²-°f [4]	CRF= -- (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

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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

[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)