

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

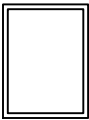
Product Information - Fixed w/ 1" I.G.



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.

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 calculated)
		$U_{COG}=0.24 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ 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
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"		$U_{COG}=0.29 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ 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)	
Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes ⁶		NFRC Size ¹ 47" x 59" $U_{Window}=0.37 \text{ Btu/h-ft}^2\text{-}^\circ\text{f}^2$	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 calculated)
		$U_{COG}=0.47 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ 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

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

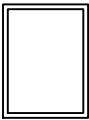
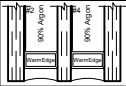
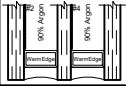
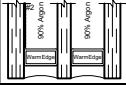
Product Information - Fixed w/ Multi-Cavity I.G.



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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	 $U_{COG}=0.116$ 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 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 calculated)
	 $U_{COG}=0.121$ 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" $U_{Window}=0.18$ 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)	
	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
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"	 $U_{COG}=0.188$ 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 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 calculated)
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

WINCO
WINDOW

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

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

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

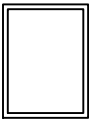
Product Information - Fixed w/ 1" Hybrid V.I.G. (Inboard)



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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 calculated)
		$U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ 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
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 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

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

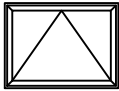
Product Information - PO Awning w/ 1" I.G.



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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 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	 $U_{COG}=0.20$ 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)	$U_{Window}=0.36$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		$U_{Window}=0.32$ Btu/h-ft ² -°f ⁴ CRF= -- (AAMA 1503) ⁵ (not calculated)	
	 $U_{COG}=0.24$ Btu/hr-ft ² -°F Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 or Solarban70 (Warm-Edge Spacer)	$U_{Window}=0.39$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		$U_{Window}=0.35$ Btu/h-ft ² -°f ⁴ CRF= 75 (AAMA 1503) ⁵	
	 $U_{COG}=0.29$ Btu/hr-ft ² -°F Double Silver Low-E #2 x 100% Air x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)	$U_{Window}=0.41$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		$U_{Window}=0.39$ 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)	$U_{Window}=0.44$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		$U_{Window}=0.41$ Btu/h-ft ² -°f ⁴ CRF= -- (AAMA 1503) ⁵ (not calculated)	
	 $U_{COG}=0.47$ Btu/hr-ft ² -°F Uncoated x 100% Air x Uncoated example: Clear over Clear (Air, Aluminum Box-Spacer)	$U_{Window}=0.51$ Btu/h-ft ² -°f ² CI= -- (NFRC 501) ² (not simulated)	
		$U_{Window}=0.50$ 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

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

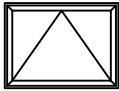
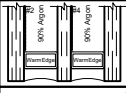
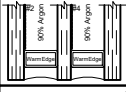
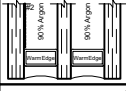
Product Information - PO Awning w/ Multi-Cavity I.G.



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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.

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	 $U_{COG}=0.116 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Triple Silver Low-E #2 x 90% Argon x Low-E No.4 ⁷ example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)	
	NFRC Size ¹ 59" x 24"	$U_{Window} = 0.28 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$
	CI= --	(NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 36"	$U_{Window} = 0.24 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^4$
	CRF= --	(AAMA 1503) ⁵ (not calculated)
	 $U_{COG}=0.121 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Double Silver Low-E #2 x 90% Argon x Low-E No.4 example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)	
	NFRC Size ¹ 59" x 24"	$U_{Window} = 0.28 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$
	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= 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	 $U_{COG}=0.184 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)	
	NFRC Size ¹ 59" x 24"	$U_{Window} = 0.32 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$
	CI= --	(NFRC 501) ² (not simulated)
	NAFS Size ³ 60" x 36"	$U_{Window} = 0.29 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^4$
	CRF= 69	(AAMA 1503) ⁵
	 $U_{COG}=0.188 \text{ Btu/hr-ft}^2\text{-}^\circ\text{F}$ Double Silver Low-E #2 x 90% Argon x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)	
	NFRC Size ¹ 59" x 24"	$U_{Window} = 0.32 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^2$
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	NAFS Size ³ 60" x 36"	$U_{Window} = 0.29 \text{ Btu/h-ft}^2\text{-}^\circ\text{F}^4$
	CRF= --	(AAMA 1503) ⁵ (not calculated)

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

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

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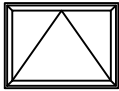
Product Information - PO Awning w/ 1" Hybrid I.G. (Outboard)



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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 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 calculated)
	 $U_{COG}=0.100 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ 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.

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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

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

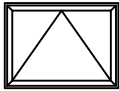
Product Information - PO Awning w/ 1" Hybrid I.G. (Inboard)



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 calculated)
	 $U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ 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

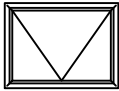
Product Information - PI Hopper w/ 1" I.G.



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 calculated)
		$U_{COG}=0.24$ 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= 75 (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)	
		NAFS Size ³ 60" x 36" $U_{Window}=0.41$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not calculated)
		$U_{COG}=0.47$ 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

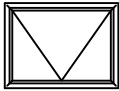
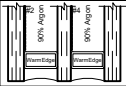
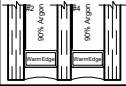
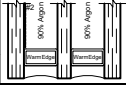
Product Information - PI Hopper w/ Multi-Cavity I.G.



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		$U_{COG}=0.116 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Low-E No.4 ⁷ example: SNX 62/27 or Solarban70 + SNX 62/27 or Solarban70 (Warm-Edge)	
		NFRC Size ¹ 59" x 24" $U_{Window}=0.28 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		NAFS Size ³ 60" x 36" $U_{Window}=0.20 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= -- (AAMA 1503) ⁵ (not calculated)
		$U_{COG}=0.121 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Double Silver Low-E #2 x 90% Argon x Low-E No.4 example: SN-68 or Solarban60 + SN-68 or Solarban60 (Warm-Edge Spacer)	
		NFRC Size ¹ 59" x 24" $U_{Window}=0.28 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
☒ 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		$U_{COG}=0.184 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated example: SNX 62/27 (Warm-Edge Spacer)	
		NFRC Size ¹ 59" x 24" $U_{Window}=0.24 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		NAFS Size ³ 60" x 36" $U_{Window}=0.22 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 69 (AAMA 1503) ⁵
		$U_{COG}=0.188 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Double Silver Low-E #2 x 90% Argon x Uncoated example: SN-68 or Solarban60 (Warm-Edge Spacer)	
		NFRC Size ¹ 59" x 24" $U_{Window}=0.24 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		NAFS Size ³ 60" x 36" $U_{Window}=0.22 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= -- (AAMA 1503) ⁵ (not calculated)

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

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

Please contact WINCO for project specific information

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

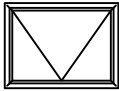
Product Information - PI Hopper w/ 1" Hybrid V.I.G. (Outboard)



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 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	 $U_{COG}=0.079$ Btu/hr-ft²-°F Triple Silver Low-E #2 x 90% Argon x Triple Silver #5 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" $U_{Window}=0.25$ Btu/h-ft ² -°f ⁴	CRF= -- (AAMA 1503) ⁵ (not calculated)
	 $U_{COG}=0.100$ 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" $U_{Window}=0.32$ 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" $U_{Window}=0.27$ Btu/h-ft ² -°f ⁴	CRF= 75 (AAMA 1503) ⁵
	 $U_{COG}=0.276$ 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" $U_{Window}=0.41$ 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" $U_{Window}=0.38$ Btu/h-ft ² -°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

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

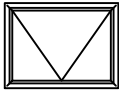
Product Information - PI Hopper w/ 1" Hybrid V.I.G. (Inboard)



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	 $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ 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" $U_{Window}=0.30 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		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 calculated)
	 $U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated x 90% Argon x Triple Silver Low-E #2 example: Cardinal 366 (Warm-Edge Spacer)		
		NFRC Size ¹ 59" x 24" $U_{Window}=0.35 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		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" $U_{Window}=0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	Same performance as simulated PO Awning, NFRC does not differentiate between swing direction
		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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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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⁷ Glass with exposed Low-E coating on Inboard Side has diminished Condensation Resistance

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

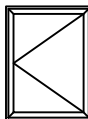
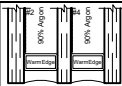
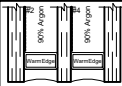
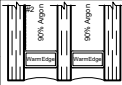
Product Information - OS Casement w/ Multi-Cavity I.G.



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 Size¹ 24" x 59" $U_{Window}=$ Btu/h-ft²-°f² CI= (NFRC 501)²	NAFS Size³ 36" x 60" $U_{Window}=0.20$ Btu/h-ft²-°f⁴ CRF= -- (AAMA 1503)⁵ (not calculated)
	 $U_{COG}=0.121$ 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 24" x 59" $U_{Window}=0.28$ Btu/h-ft²-°f² CI= -- (NFRC 501)² (not simulated)	NAFS Size³ 36" x 60" $U_{Window}=0.20$ 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 24" x 59" $U_{Window}=0.24$ Btu/h-ft²-°f² CI= -- (NFRC 501)² (not simulated)	NAFS Size³ 36" x 60" $U_{Window}=0.22$ Btu/h-ft²-°f⁴ 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 24" x 59" $U_{Window}=0.24$ Btu/h-ft²-°f² CI= -- (NFRC 501)² (not simulated)	NAFS Size³ 36" x 60" $U_{Window}=0.22$ Btu/h-ft²-°f⁴ CRF= -- (AAMA 1503)⁵ (not calculated)

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

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

Please contact WINCO for project specific information

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

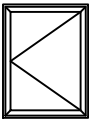
Product Information - OS Casement w/ 1" Hybrid V.I.G. (Outboard)



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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 Tripple Silver #5 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" $U_{Window}=0.25 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= -- (AAMA 1503) ⁵ (not calculated)
	 $U_{COG}=0.100 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Triple Silver Low-E #2 x 90% Argon x Uncoated example: Cardinal 366 (Warm-Edge Spacer)	
	NFRC Size ¹ 24" x 59" $U_{Window}=0.32 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
Can be Configured for ADA Compliance ☐ Not-Applicable ☒ Yes	NAFS Size ³ 36" x 60" $U_{Window}=0.27 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	CRF= 75 (AAMA 1503) ⁵
Can be configured to meet Windborne Debris Impact Resistance to ASTM E1886 / ASTM E1996 ☒ Not Rated ☐ Missile "D" ☐ Missile "E"	 $U_{COG}=0.276 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ Uncoated V.I.G. x 90% Argon x Uncoated example: Clear V.I.G. over Clear (Warm-Edge Spacer)	
	NFRC Size ¹ 24" x 59" $U_{Window}=0.41 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^2$	CI= -- (NFRC 501) ² (not simulated)
Product Type may be configured for Blast Resistant Installation ☐ No ☒ Yes ⁶	NAFS Size ³ 36" x 60" $U_{Window}=0.38 \text{ Btu/h-ft}^2\text{-}^{\circ}\text{f}^4$	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

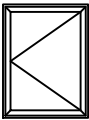
Product Information - OS Casement w/ 1" Hybrid V.I.G. (Inboard)



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 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	 $U_{COG}=0.079 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ 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 calculated)
	 $U_{COG}=0.173 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ 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
	 $U_{COG}=0.279 \text{ Btu/hr-ft}^2\text{-}^{\circ}\text{F}$ 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
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

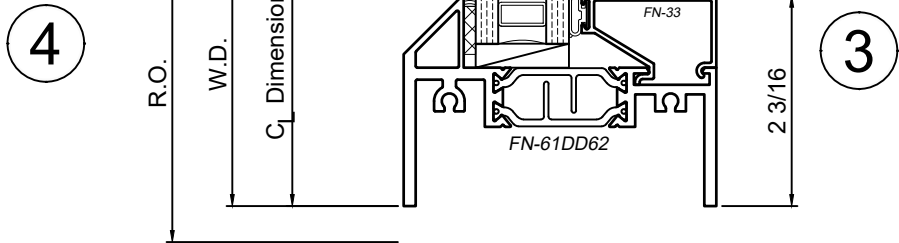
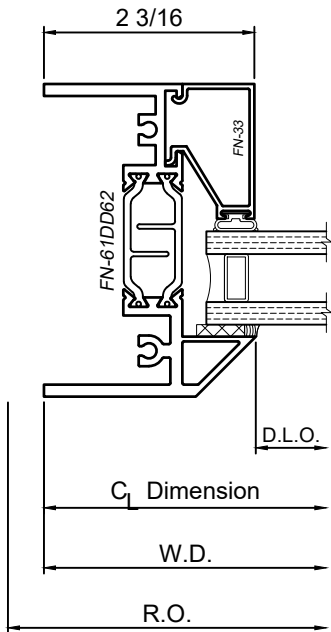
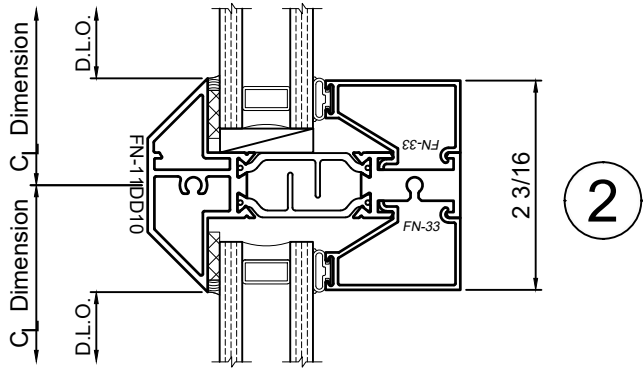
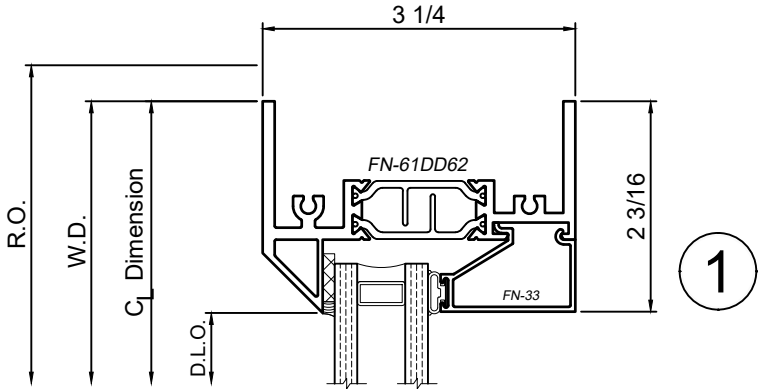
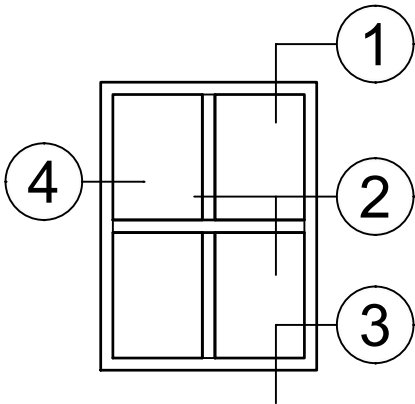
Product Details - Fixed - Picture Window



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

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SCALE 6"=1'-0"

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

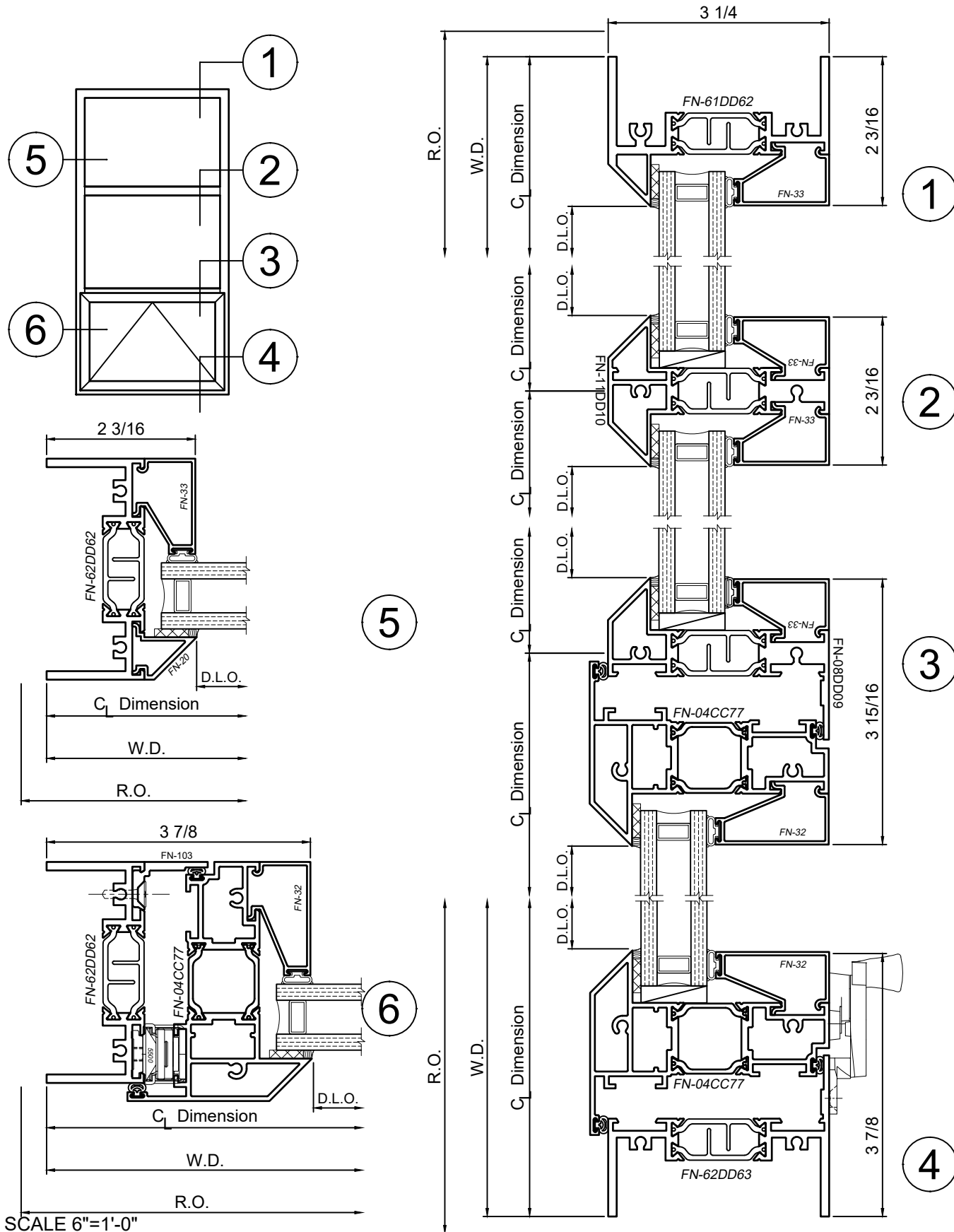
Product Details - Project Out - Awning



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

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SCALE 6"=1'-0"

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

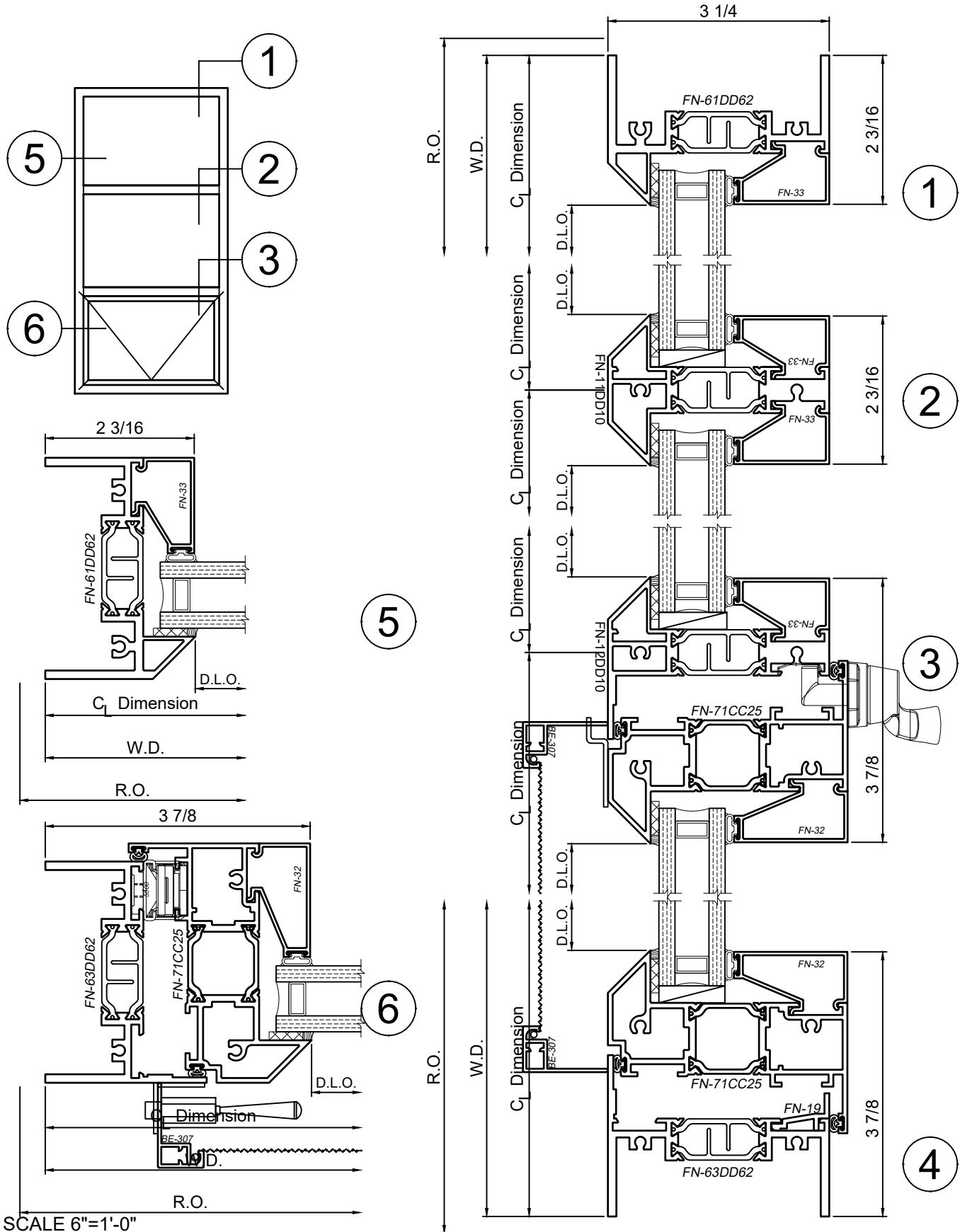
Product Details - Project In - Hopper



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

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

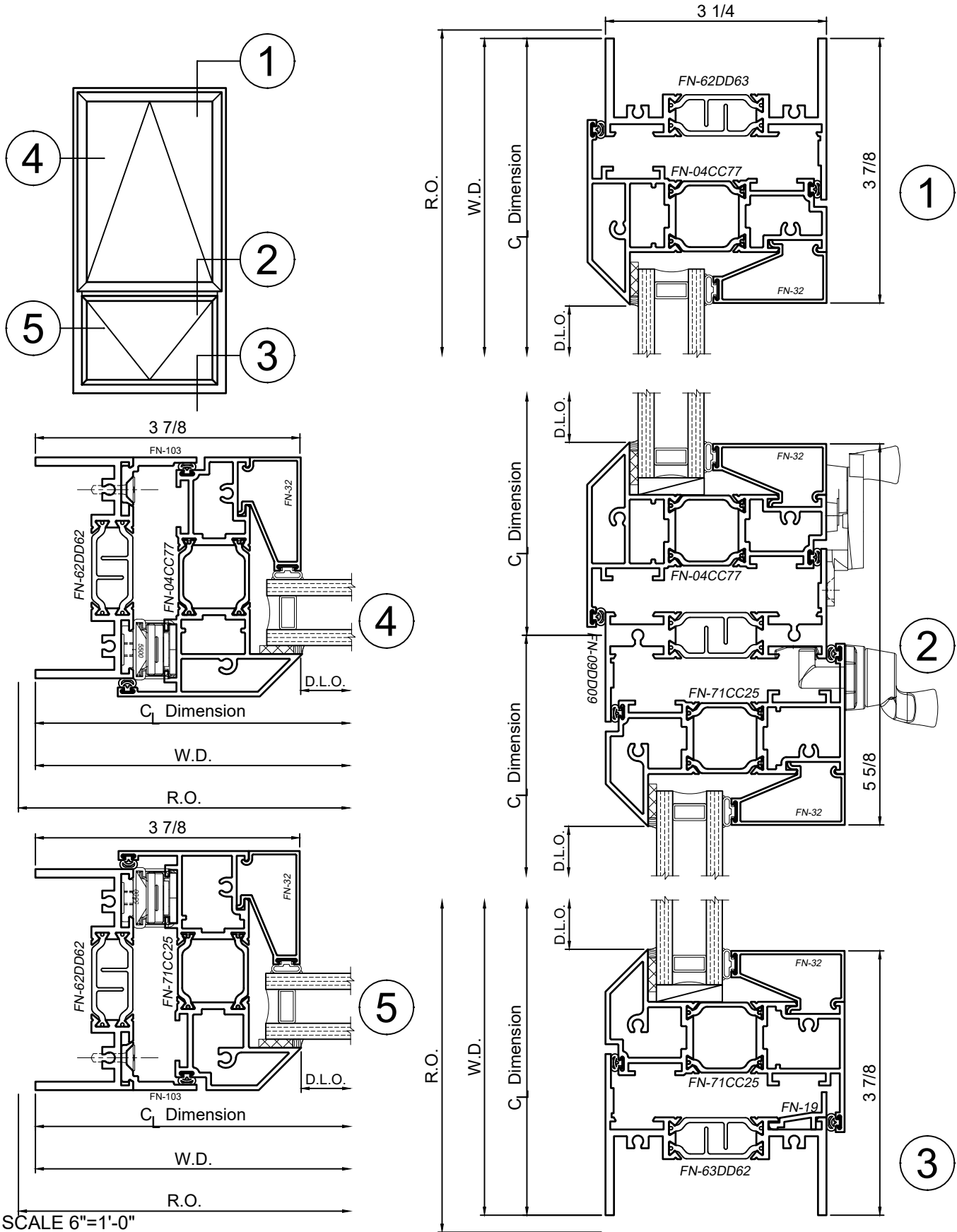
Product Details - PO|PI - Awning|Hopper



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

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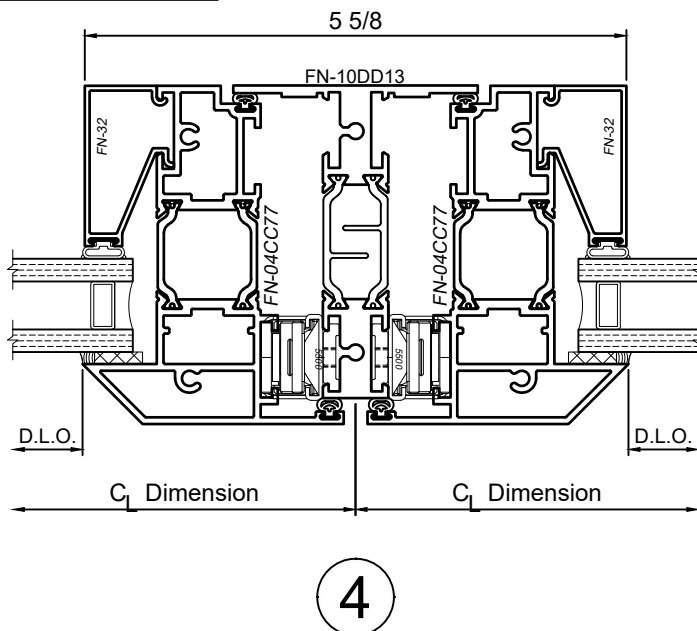
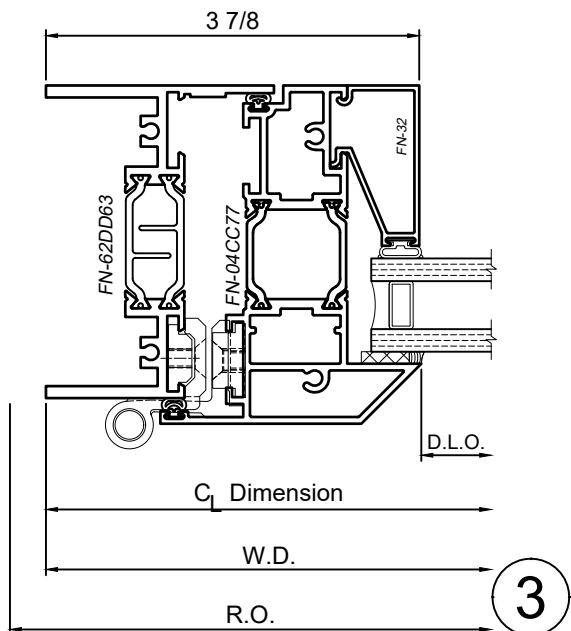
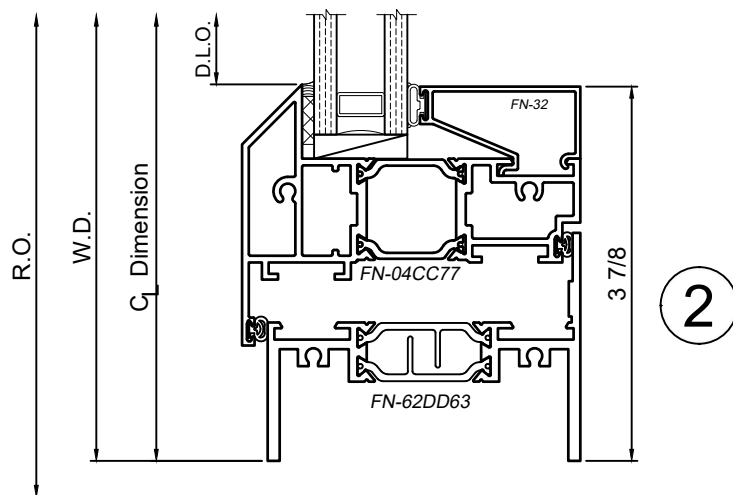
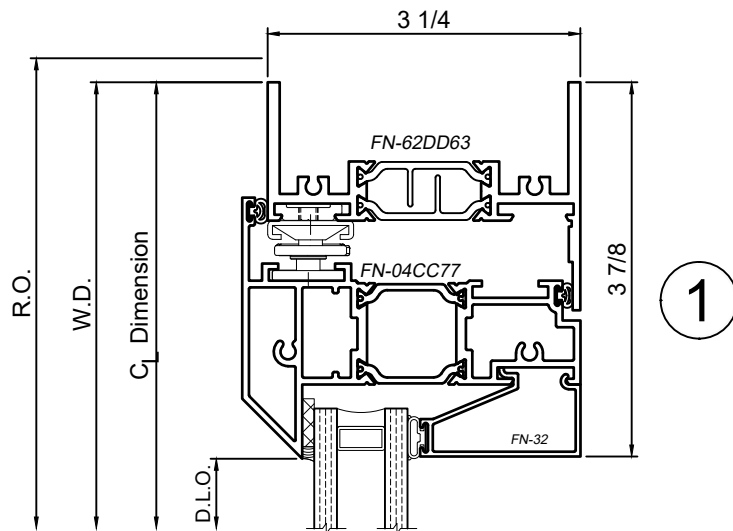
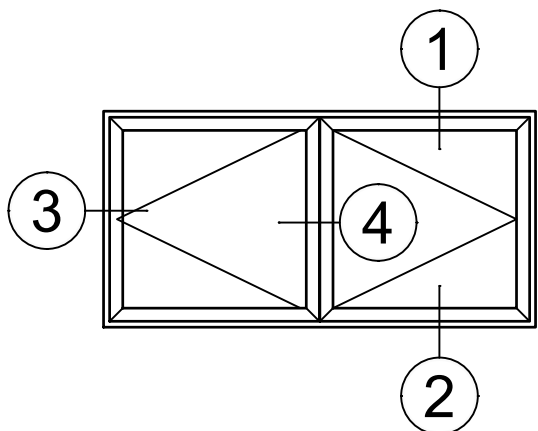
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Butterfly Casement - Outswing



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

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



SCALE 6"=1'-0"

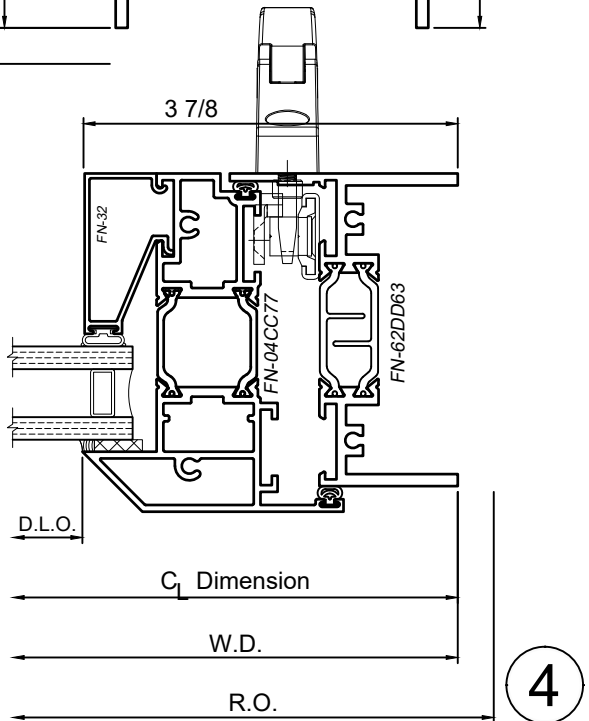
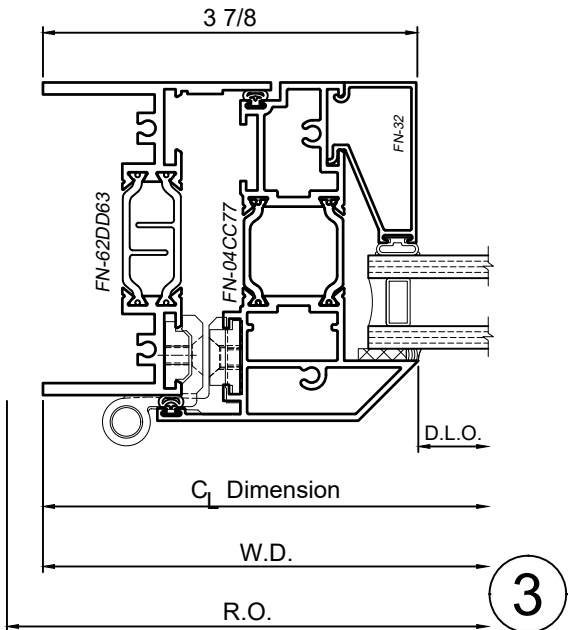
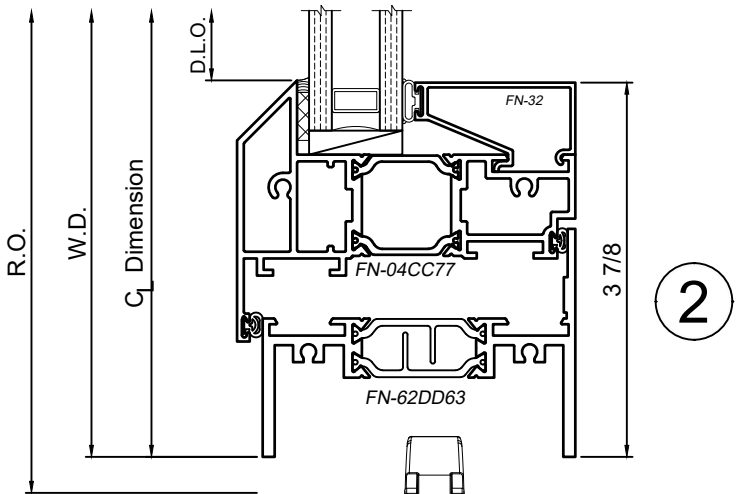
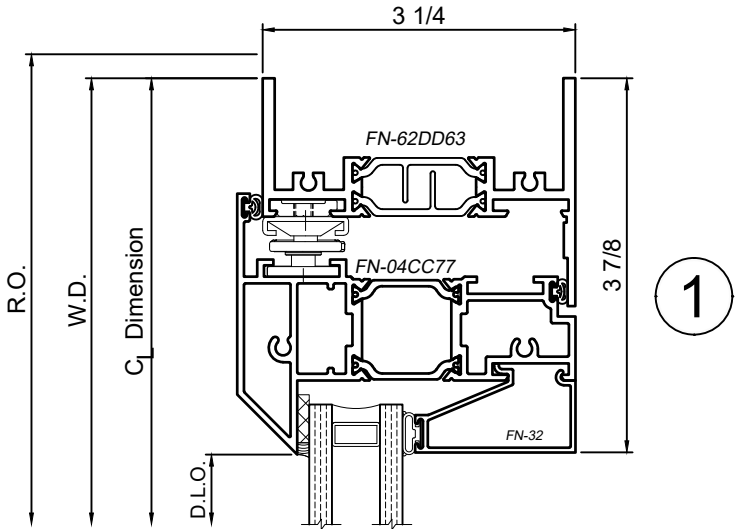
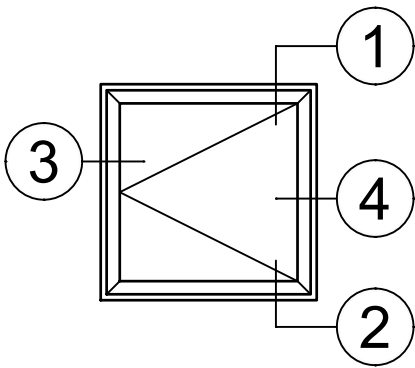
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Outswing Casement



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

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SCALE 6"=1'-0"

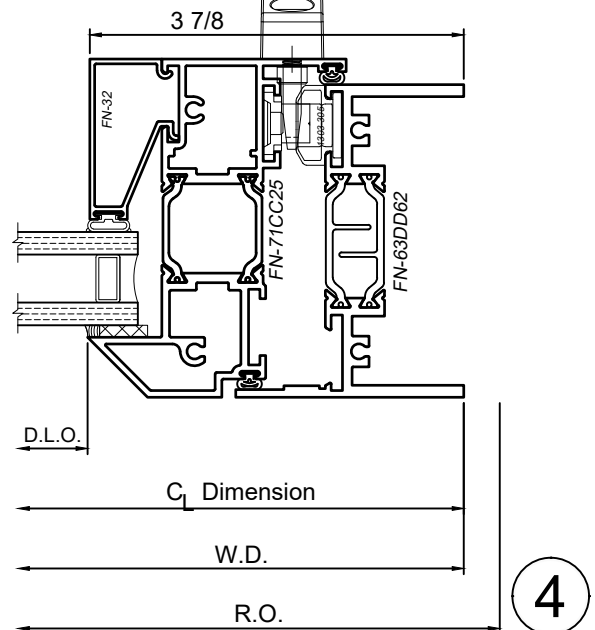
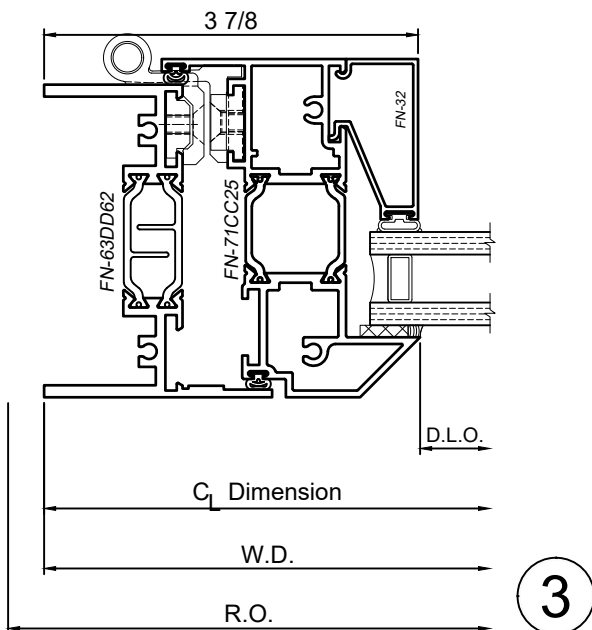
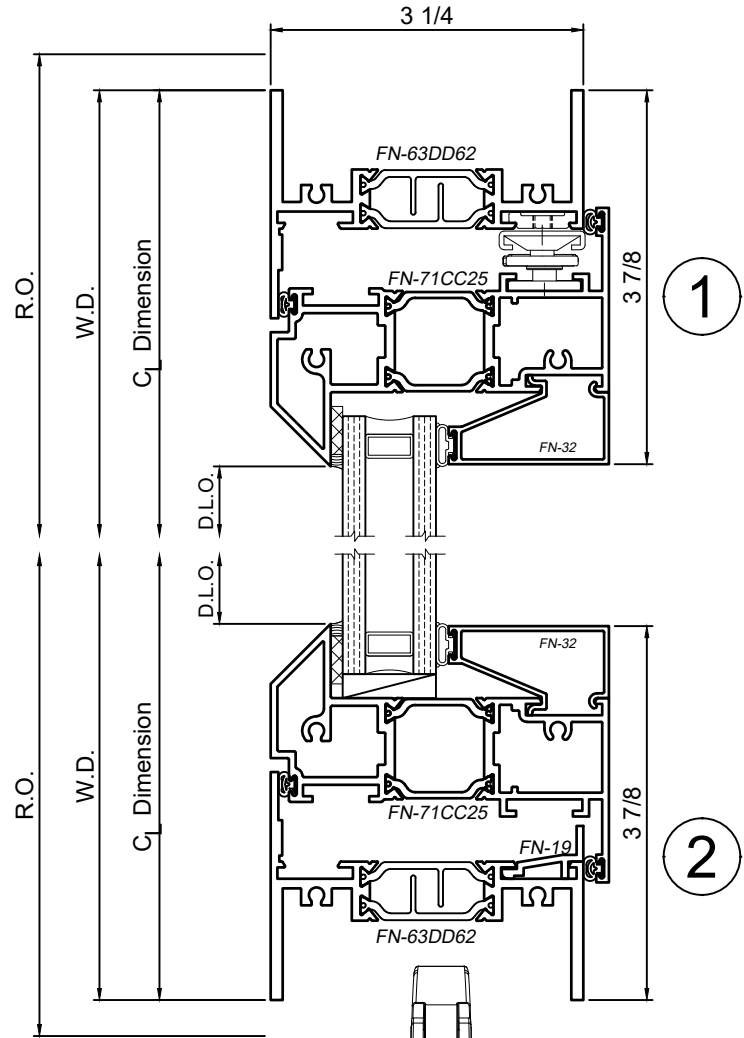
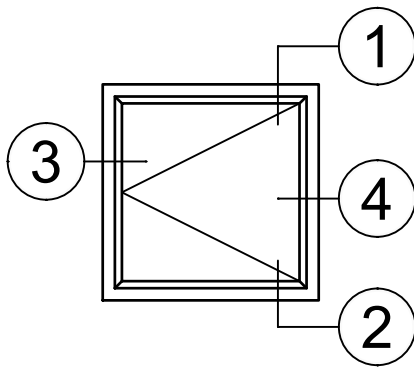
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Inswing Casement



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

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SCALE 6"=1'-0"

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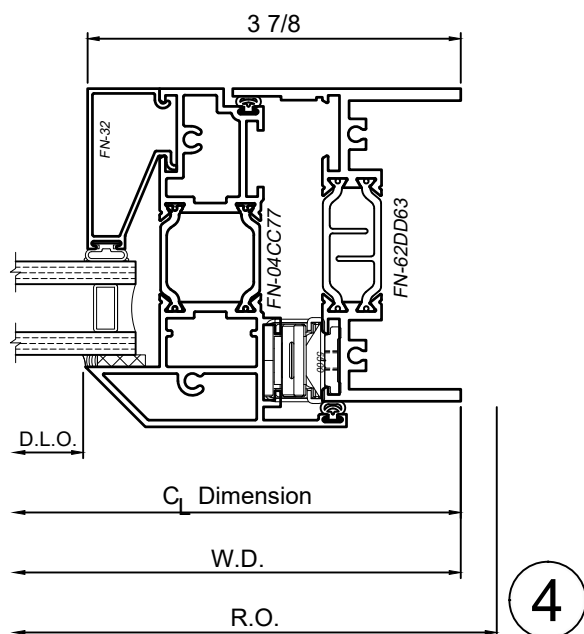
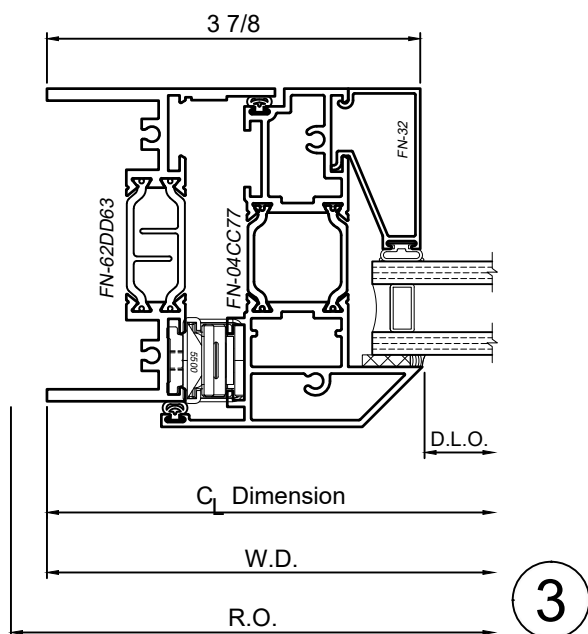
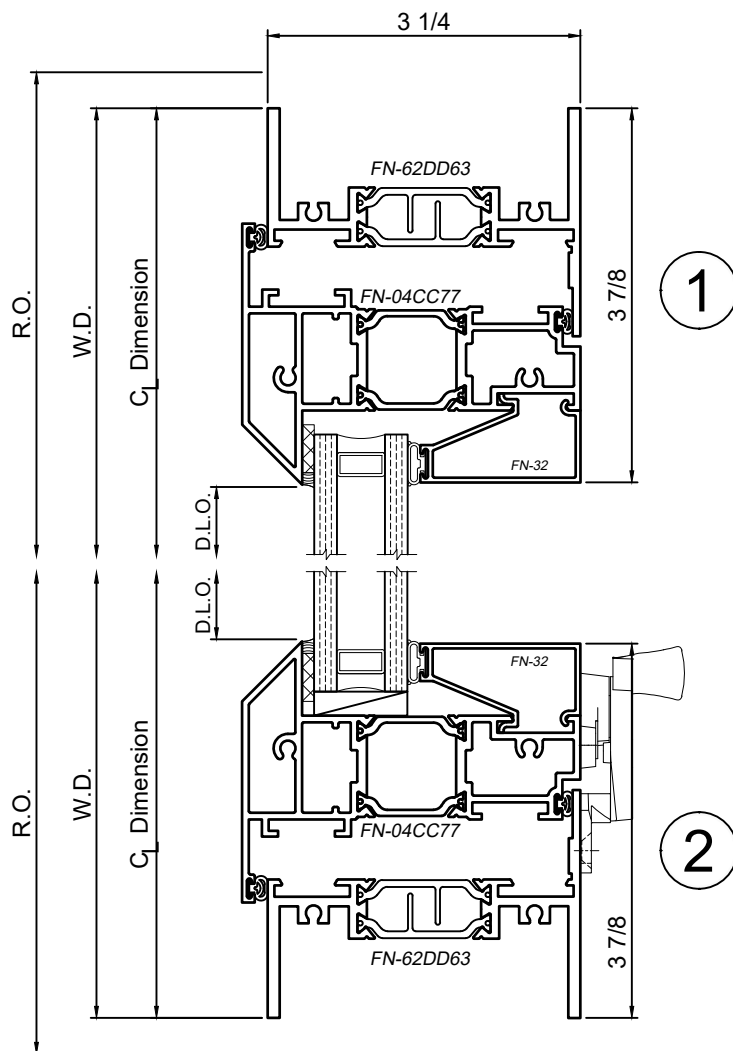
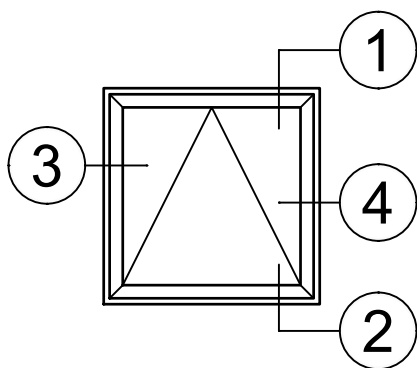
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Project Out - Awning



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

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



SCALE 6"=1'-0"

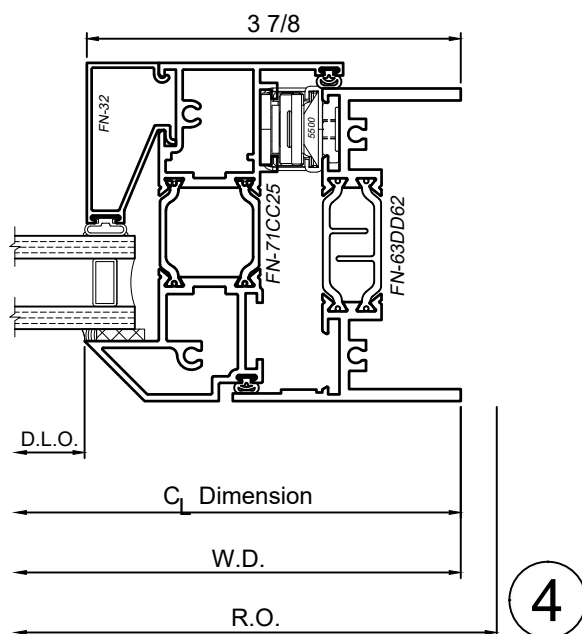
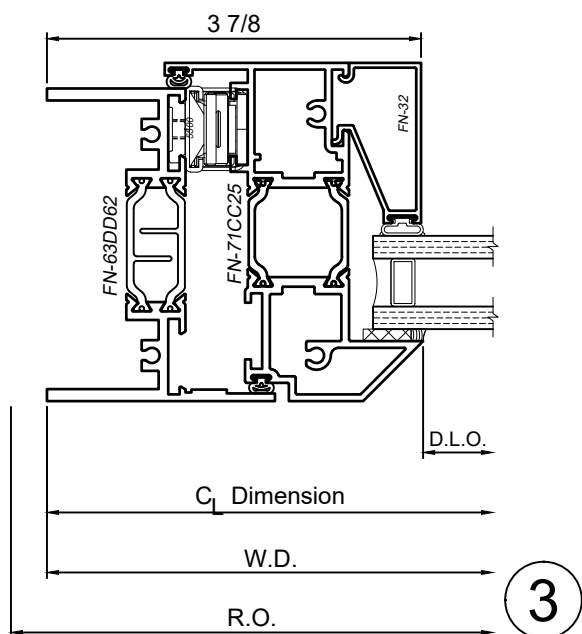
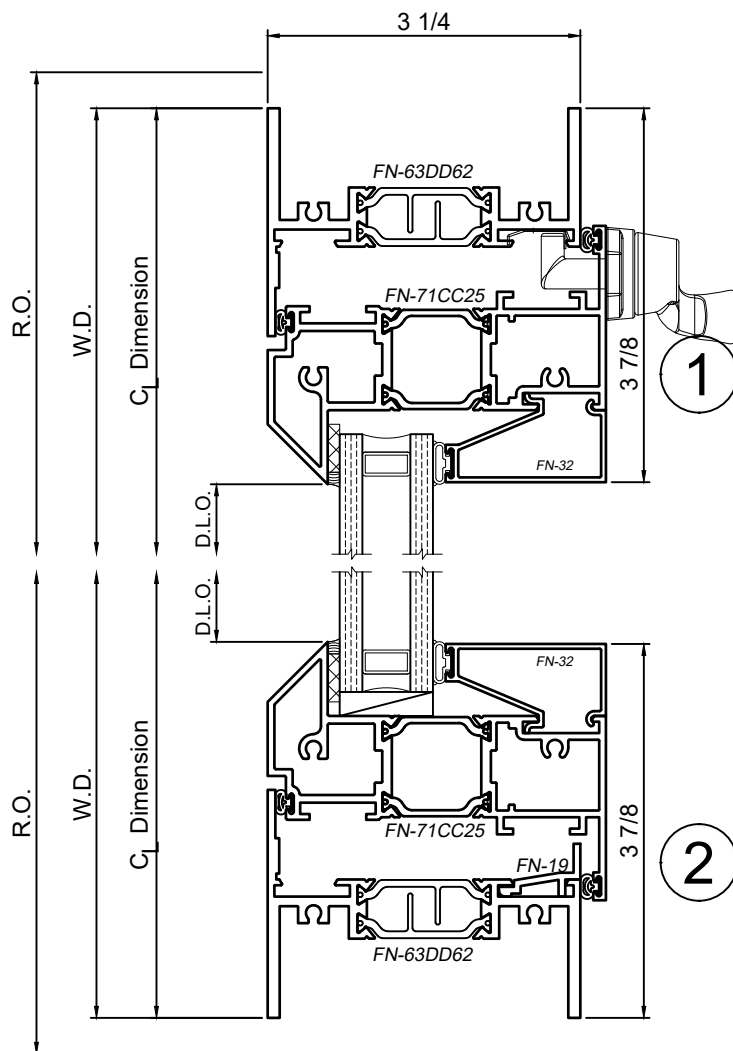
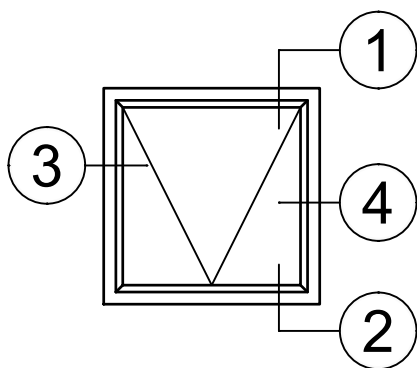
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Project In - Hopper



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

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SCALE 6"=1'-0"

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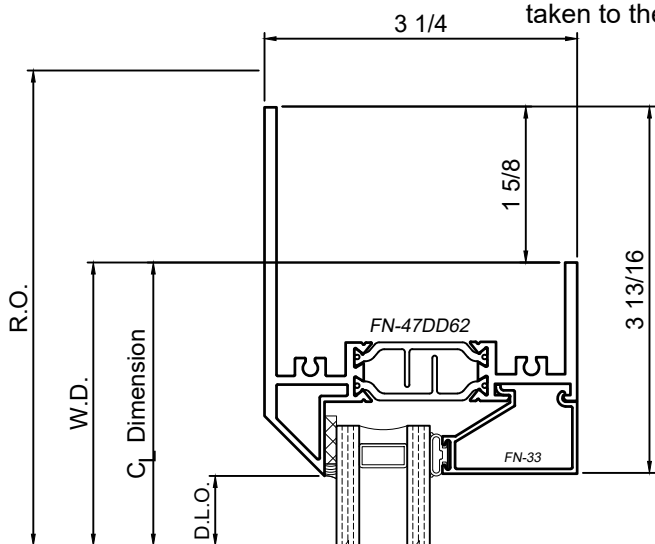
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Un-Equal Leg Frame Options

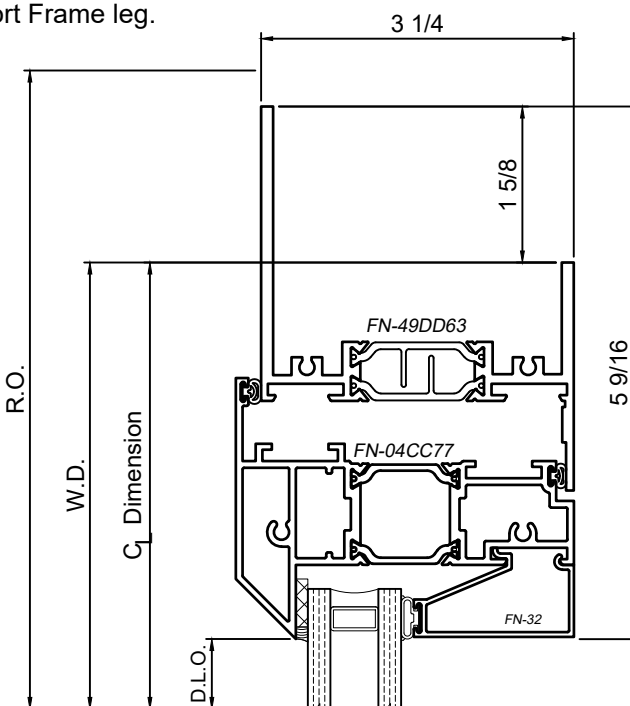


WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

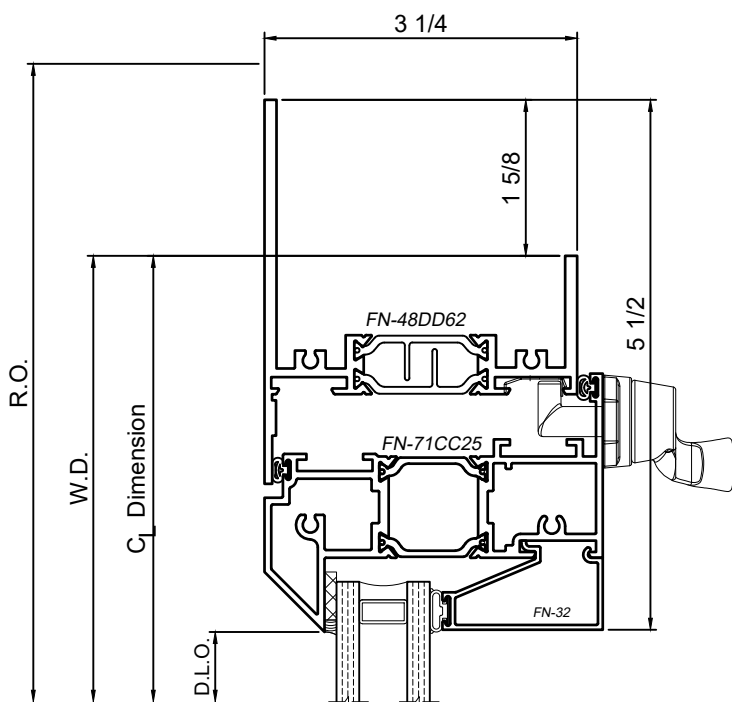
Note:
The Nominal Frame and
Centerline Dimensions are
taken to the Short Frame leg.



Available at head, jamb and sill



Available at head, jamb and sill



Available at head, jamb and sill

SCALE 6"=1'-0"

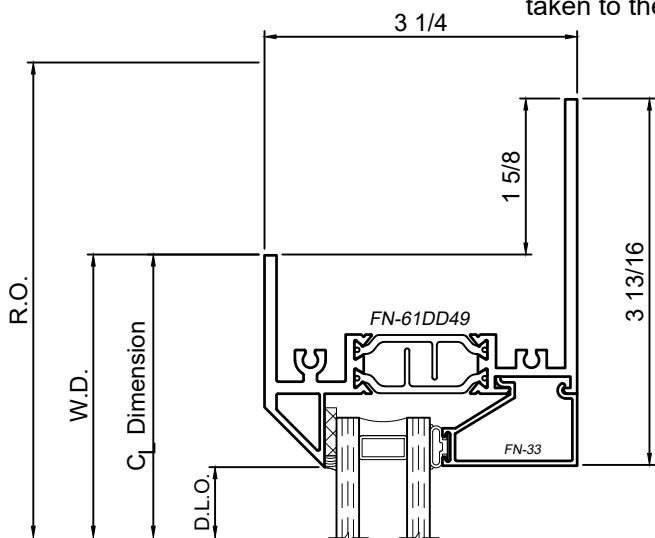
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Un-Equal Leg Frame Options

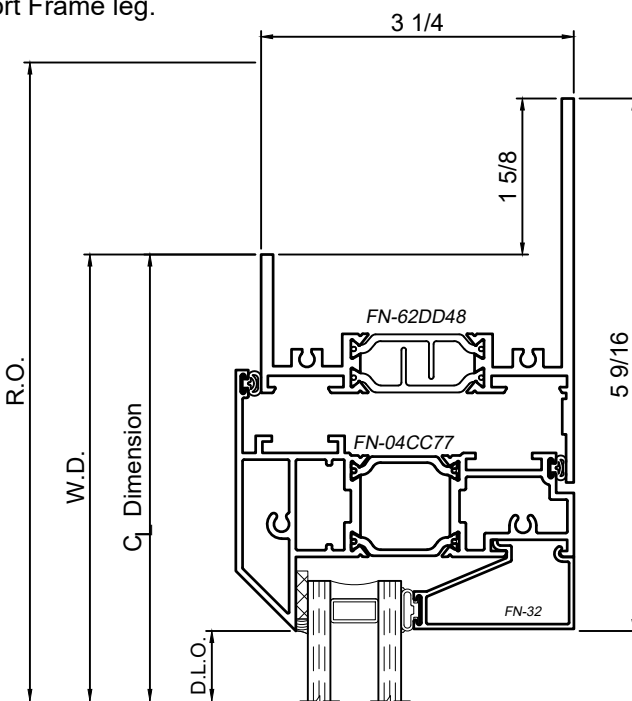


WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

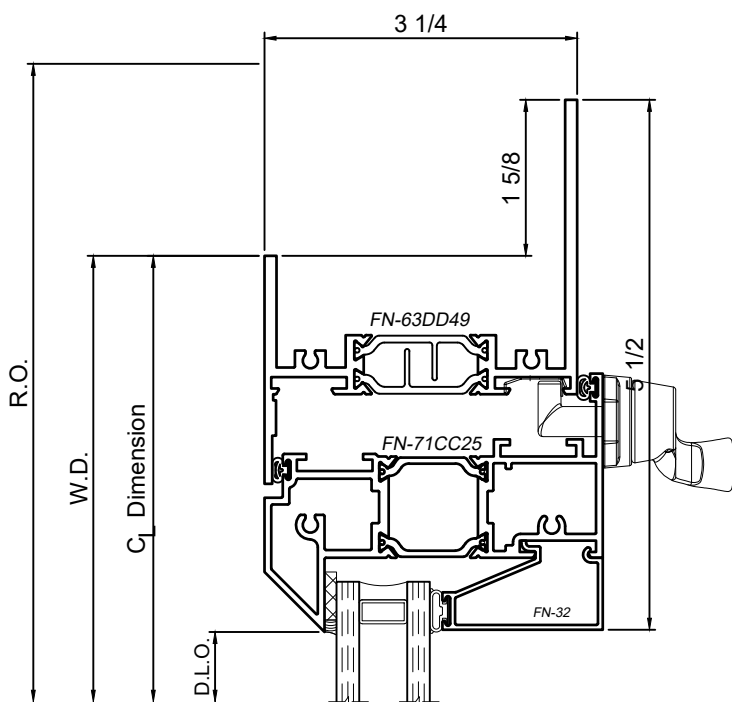
Note:
The Nominal Frame and
Centerline Dimensions are
taken to the Short Frame leg.



Available at head, jamb and sill



Available at head, jamb and sill



Available at head, jamb and sill

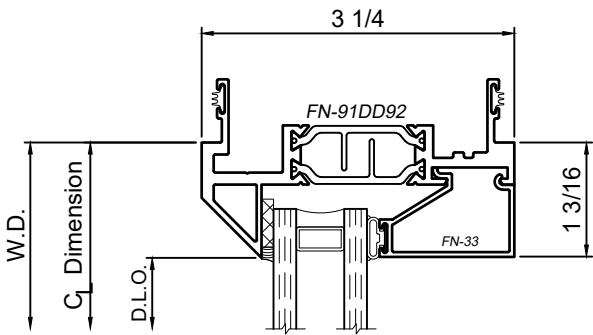
SCALE 6"=1'-0"

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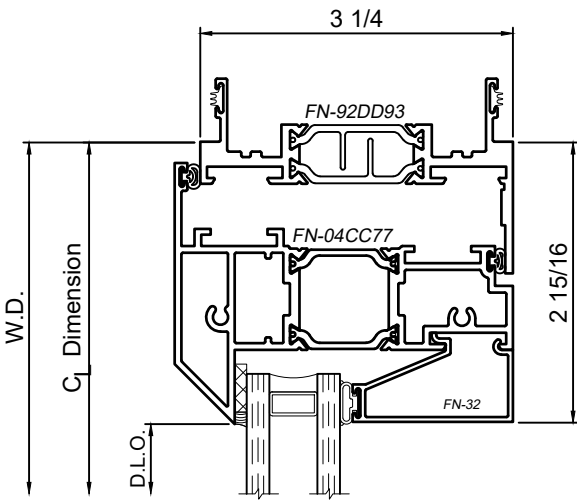
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows
Product Details - Self Stacking Frame Options



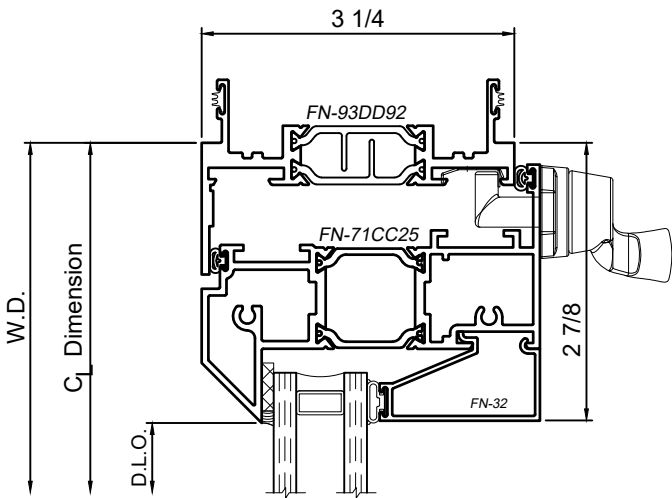
WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



Available at head and jamb



Available at head and jamb



Available at head and jamb

SCALE 6"=1'-0"

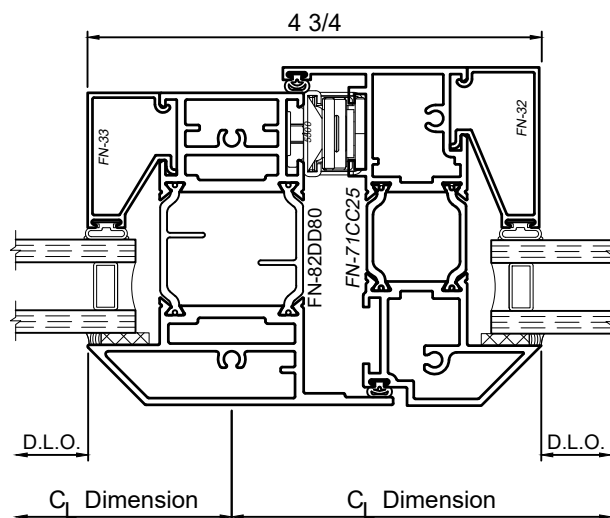
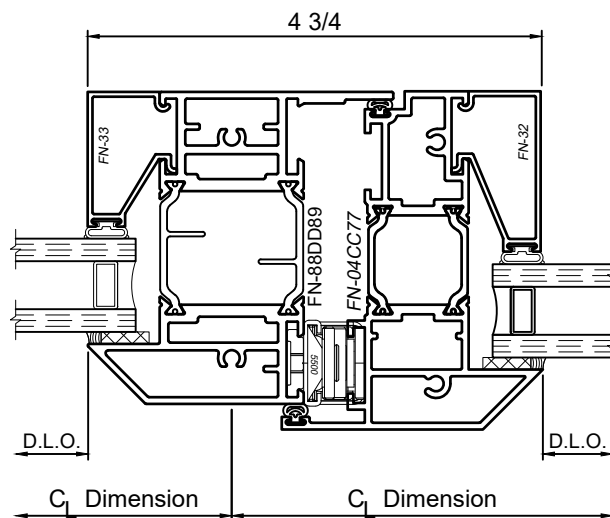
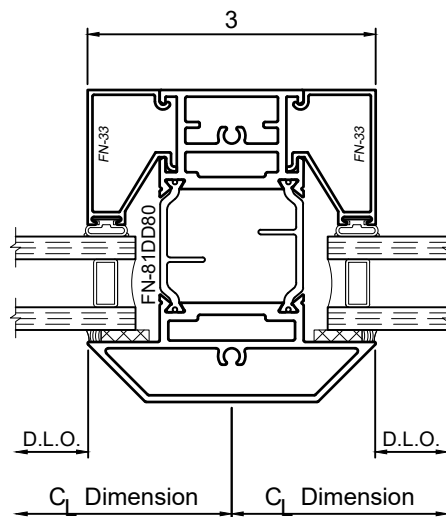
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8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Heavy Rail Options



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



SCALE 6"=1'-0"

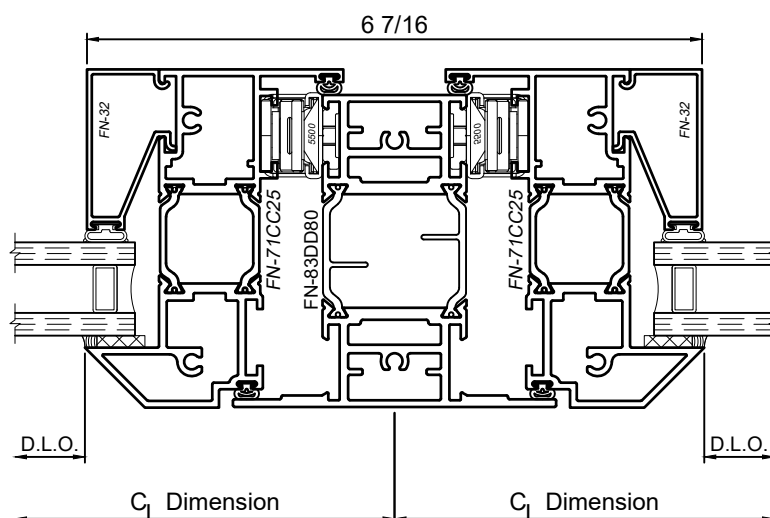
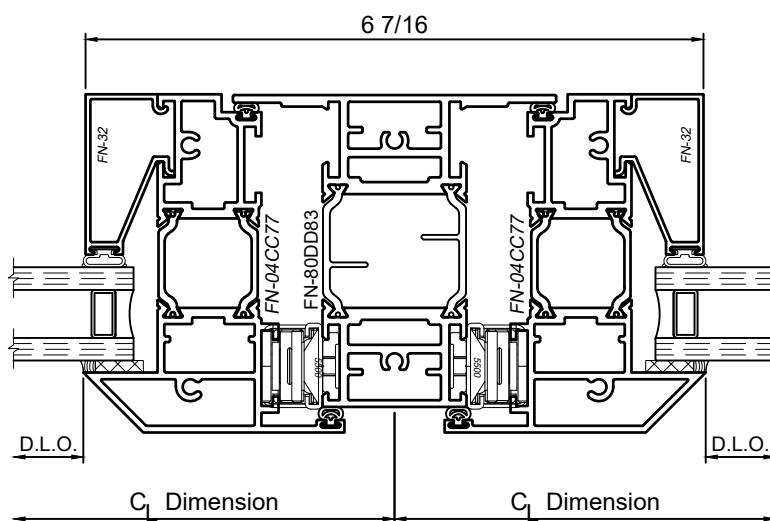
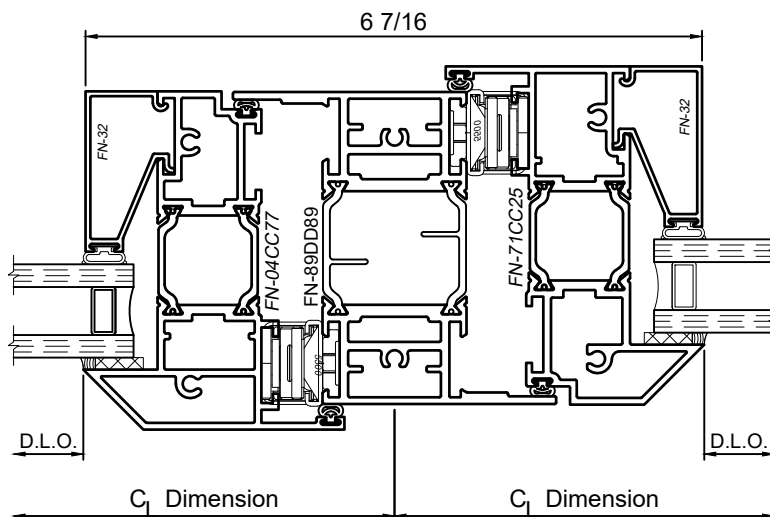
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8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Heavy Rail Options



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



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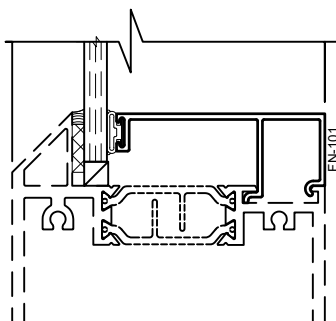
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Glazing Options

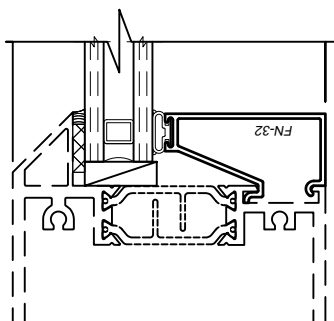


Note: Multiple configurations of this window system are available. Refer to the WINCO website for additional options or contact your local WINCO Sales Representative for information.

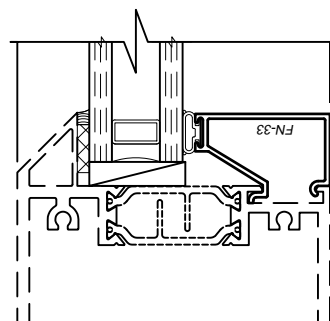
WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT



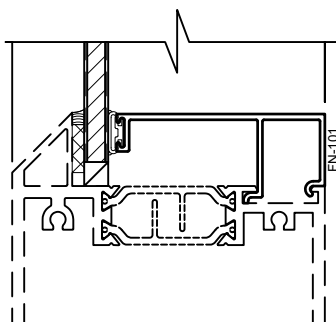
**1/4" Glazing Bead
FN-101**
- Only Available for Fixed Lights -



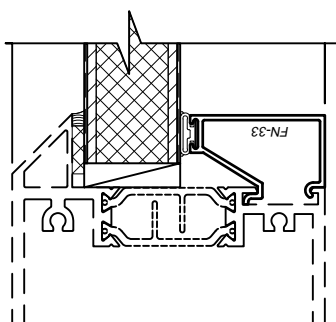
**3/4" Glazing Bead
FN-32**
- Only Available for Fixed Lights -



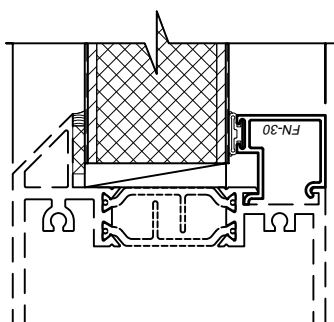
**1" Glazing Bead
FN-33**



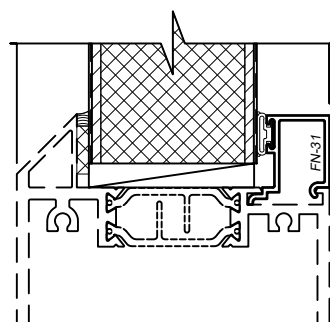
**1/4" Glazing Bead
Panel
FN-101**
- Only Available for Fixed Lights -



**1" Glazing Bead
Panel
FN-33**



**1-1/2" Glazing Bead
Panel
FN-30**
- Only Available for Fixed Lights -



**1-3/4" Glazing Bead
Panel
FN-31**
- Only Available for Fixed Lights -

Note: glazing options shown are a sample of what is available. If desired glazing is not shown please contact your local Winco Sales Representative for additional information.

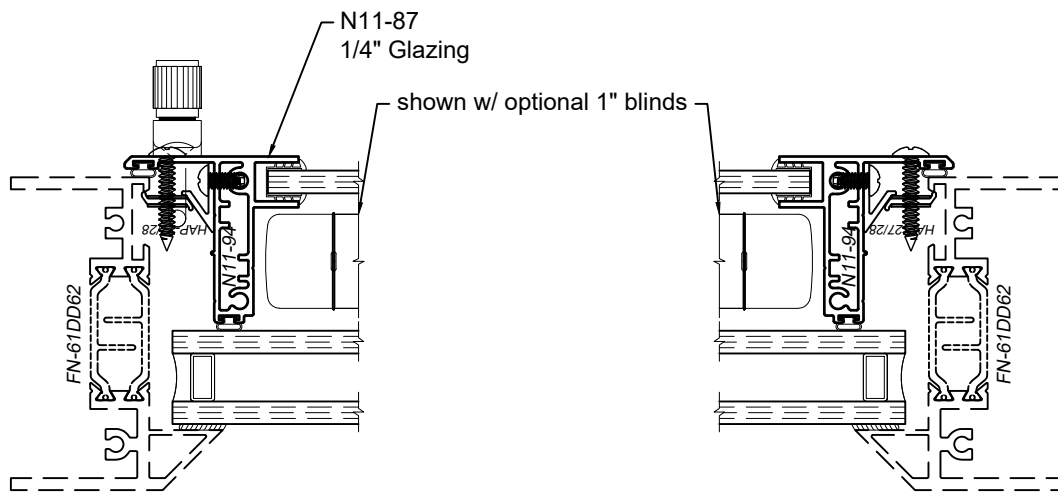
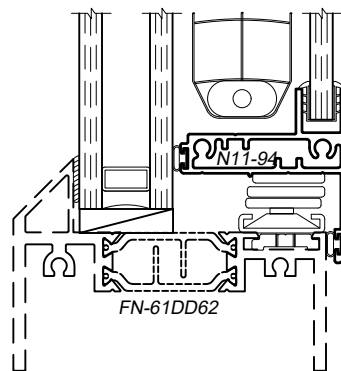
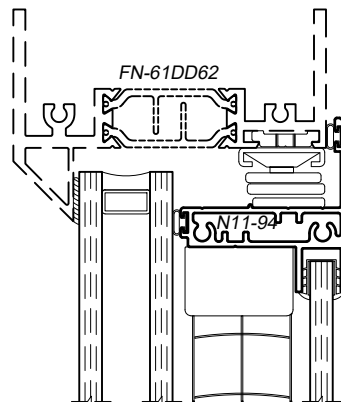
SCALE 6"=1'-0"

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

Product Details - Tripple Glazed w/ Hinged Interior Sash



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SCALE 6"=1'-0" Triple Glazed w/ Hinged Sash - Hinged Blind Accessory Blind Sash Option

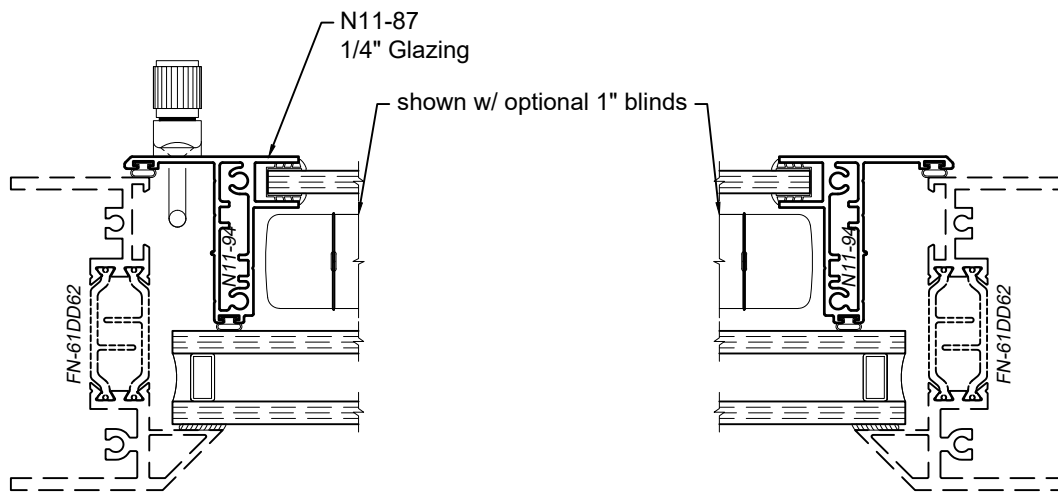
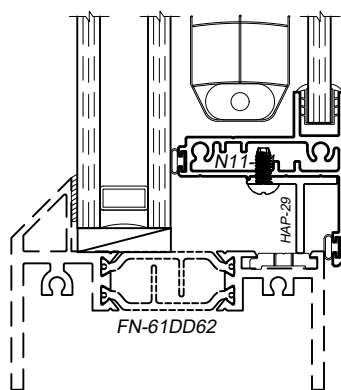
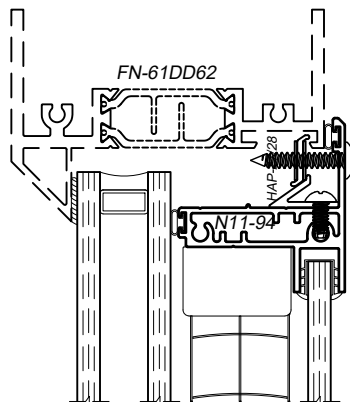
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Tripple Glazed w/ Lift Out Interior Sash



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

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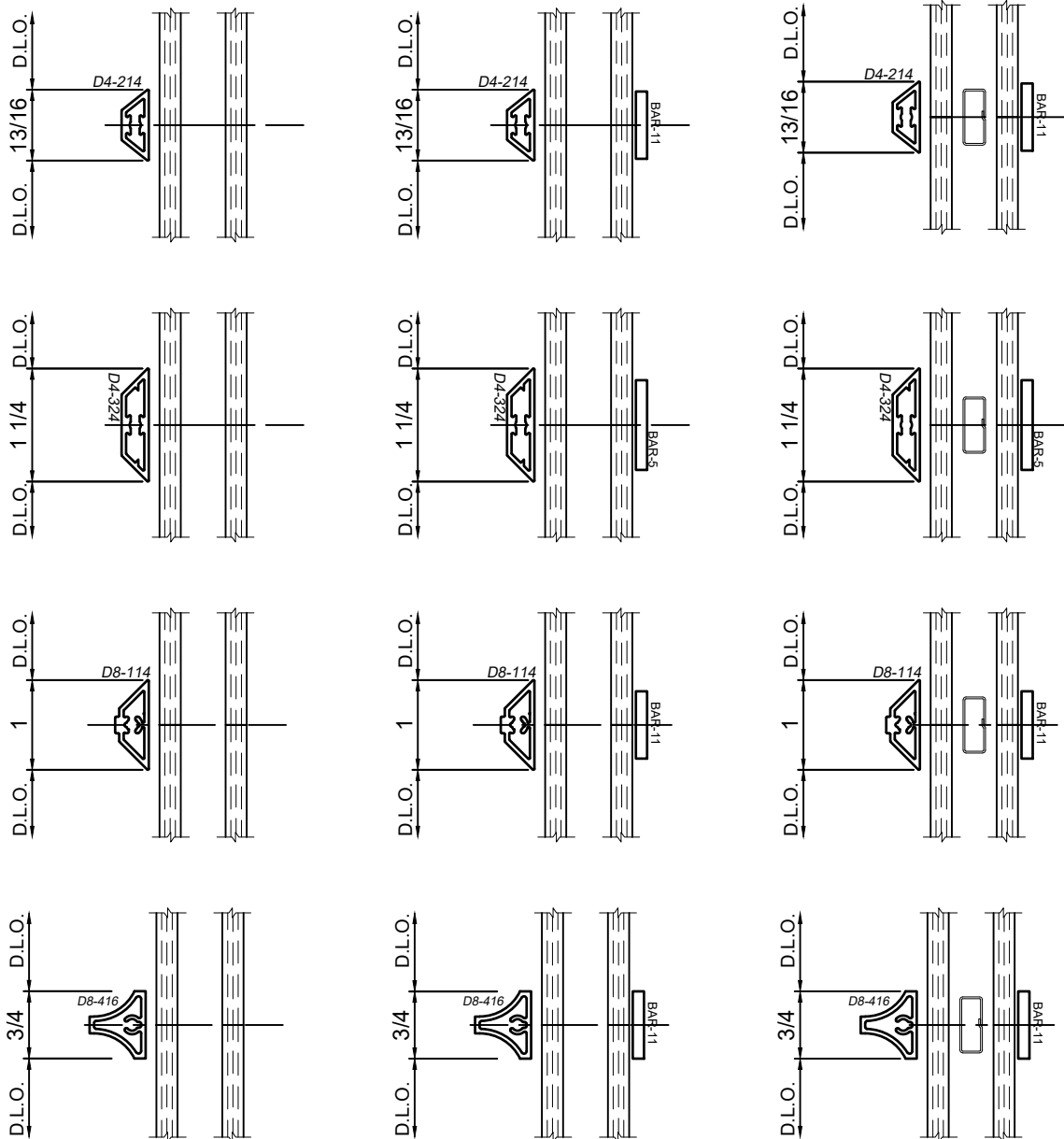
SCALE 6"=1'-0" Triple Glazed w/ Hinged Sash - Hinged Blind Accessory Blind Sash Option

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

Product Details - Grid Options



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SCALE 6"=1'-0"

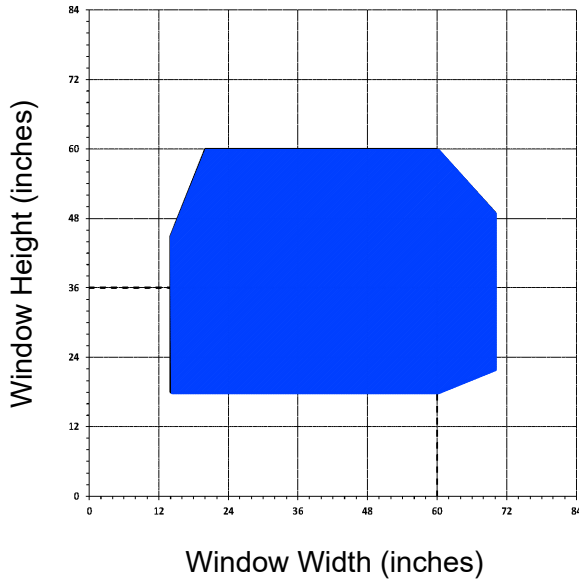
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Projected Vent Size Capabilities Charts

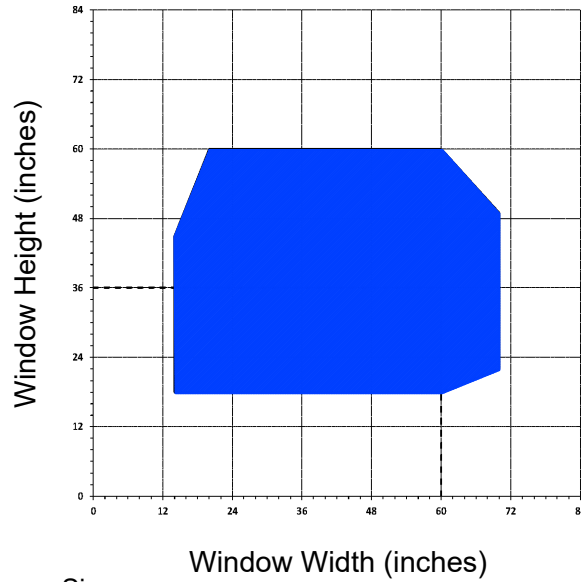


WINCO RESERVES THE RIGHT TO MODIFY OR CHANGE INFORMATION WITHIN THIS BOOK WHEN DEEMED NECESSARY FOR PRODUCT IMPROVEMENT

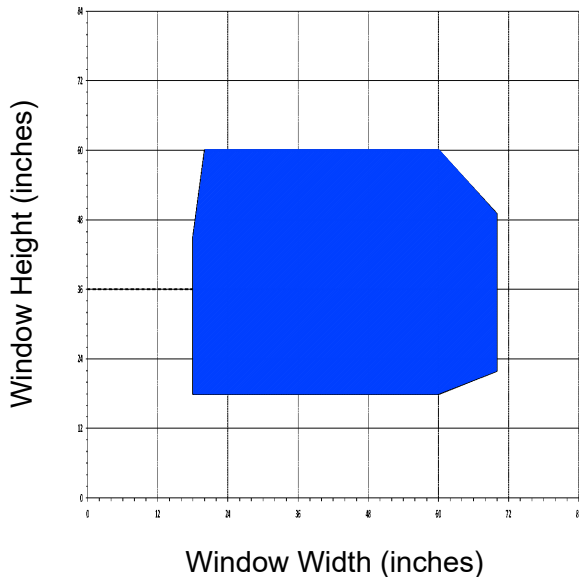
Projected In / Out with Four Bar Arms



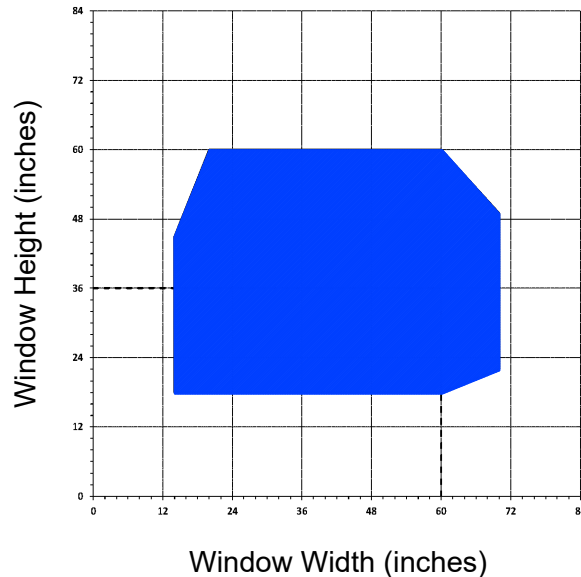
Casement with Concealed Four Bar Casement Arm & Multi Point Locks



Projected In / Out with Pivot Shoe Roto-Operator (Multi Point Lock)



Projected In / Out with Pivot Shoe Roto-Operator (Cam Locks)



----- AAMA Gateway Size

- Dashed line represents the gateway size window as tested by AAMA.
- All vent sizes are based upon 1" Insulated glass consisting of 1/4" glass - 1/2" air - 1/4" glass.
- Any vent size outside of the AAMA Gateway tested size may have reduced performance.
- Chart assumes the window has been installed in a properly prepared opening by a qualified installer.
- Individual job criteria such as: other glazing materials, specified wind load, and specific operating hardware; may enhance or restrict the chart.
- Minimum vent size is 14" x 18" with standard cam locks and 4-bar hinges.
- The chart is a general guideline for projected vent sizing, anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

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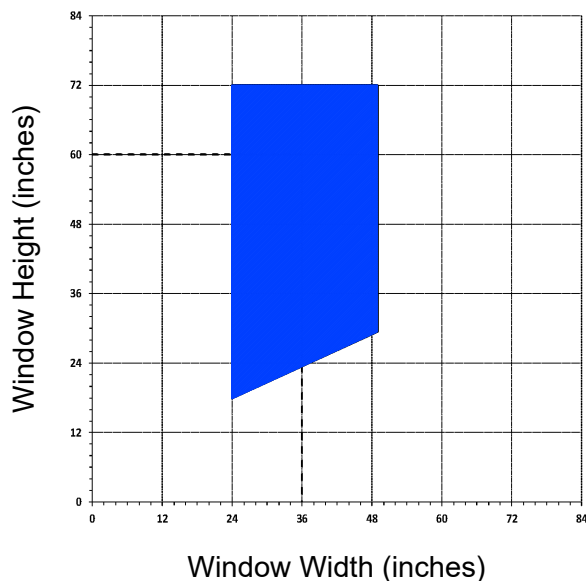
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Casement Vent Size Capabilities Charts



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

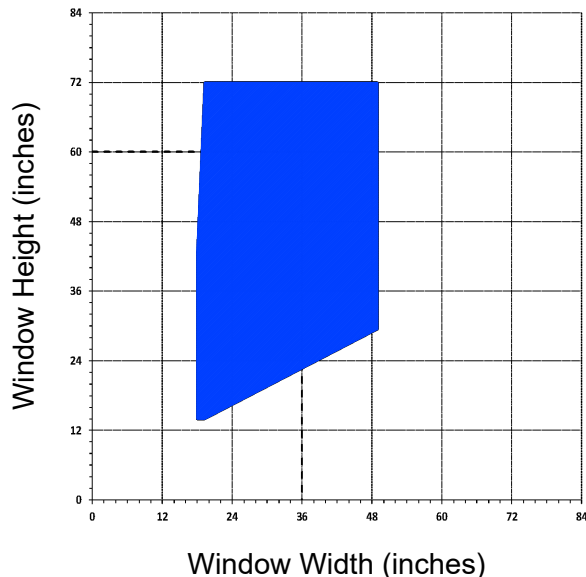
**Casement with Roto-Operator
w/ 5 Knuckle Butt Hinge &
Multi Point Locks**



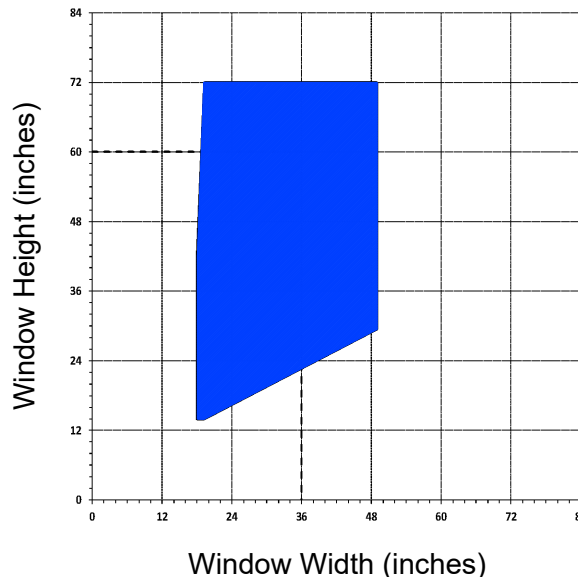
**Casement with 5 Knuckle Butt
Hinge & Cam Locks**



**Casement with Concealed
Four Bar Casement Arm &
Multi Point Locks**



**Casement with Concealed
Four Bar Casement Arm &
Cam Locks**



Window Width (inches)

Window Width (inches)

- Dashed line represents the gateway size window as tested by AAMA.
- All vent sizes are based upon 1" Insulated glass consisting of 1/4" glass - 1/2" air - 1/4" glass.
- Any vent size outside of the AAMA Gateway tested size may have reduced performance.
- Chart assumes the window has been installed in a properly prepared opening by a qualified installer.
- Individual job criteria such as: other glazing materials, specified wind load, and specific operating hardware; may enhance or restrict the chart.
- Minimum vent size is 18" x 14" with standard cam locks and 4-bar hinges.
- The chart is a general guideline for projected vent sizing, anything on the edge or outside of the range will need to be reviewed by Winco Engineering.

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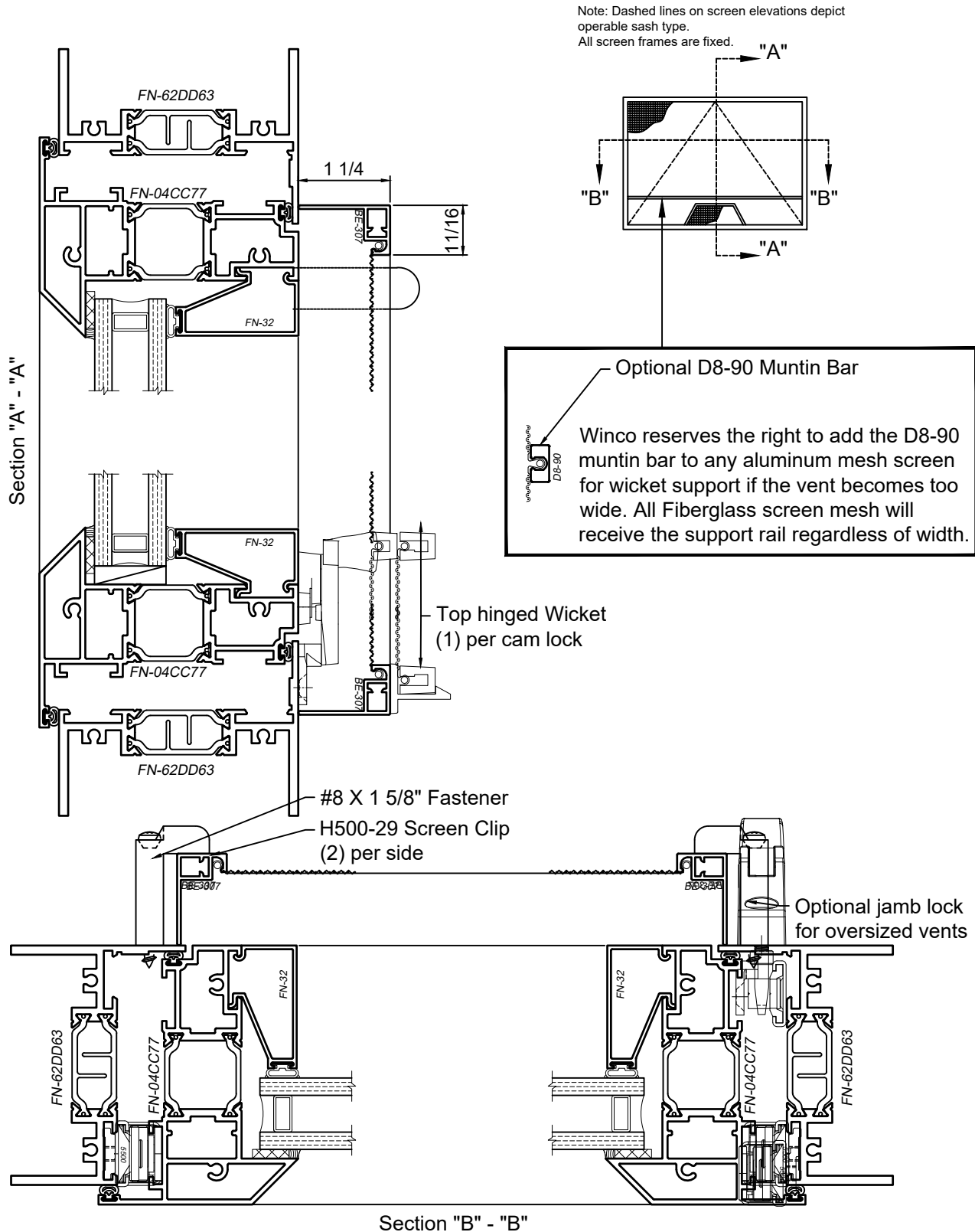
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Screen Options - PO - Awning



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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SCALE 6"=1'-0"

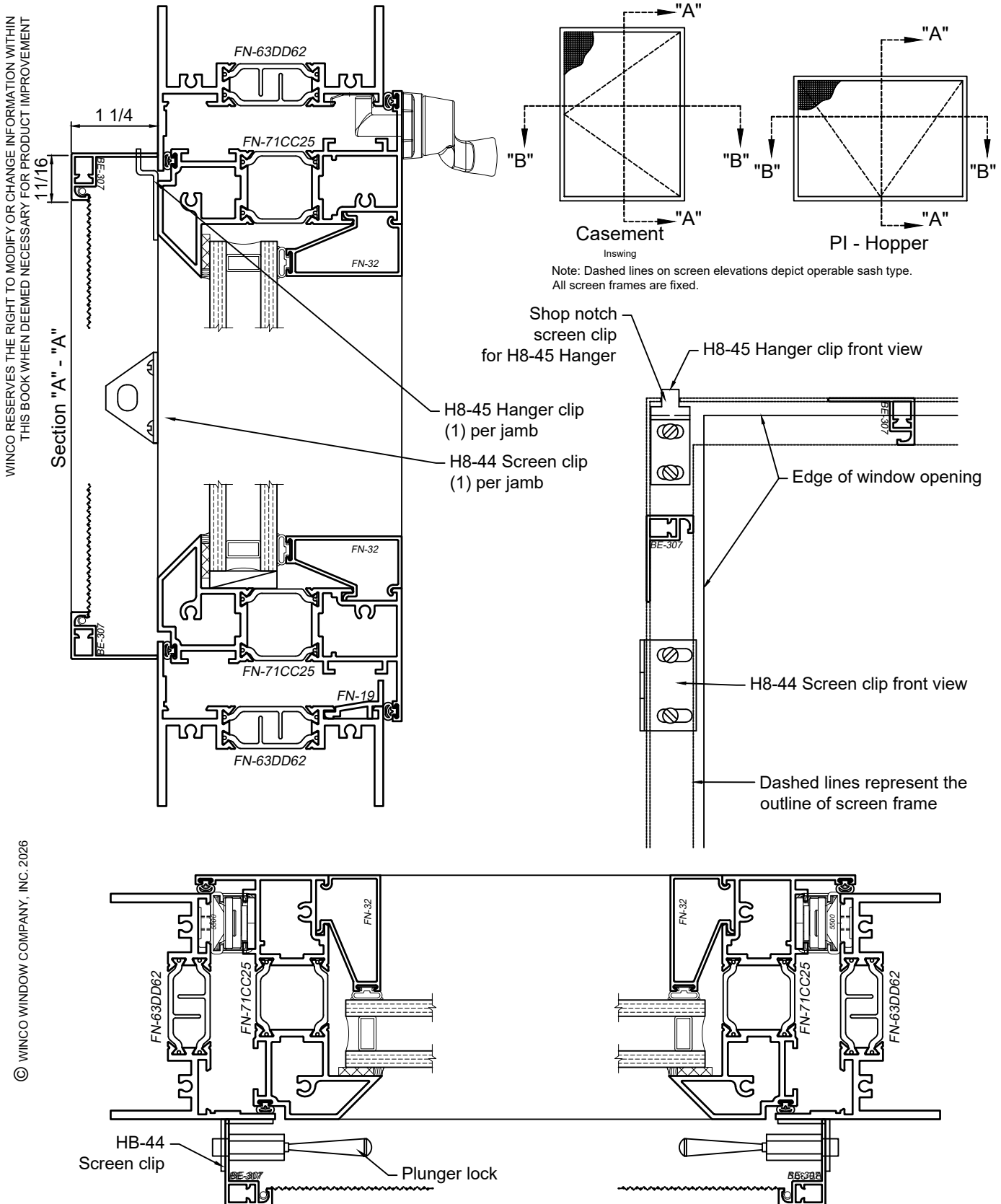
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Screen Options - PI Hopper



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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SCALE 6"=1'-0"

Section "B" - "B"

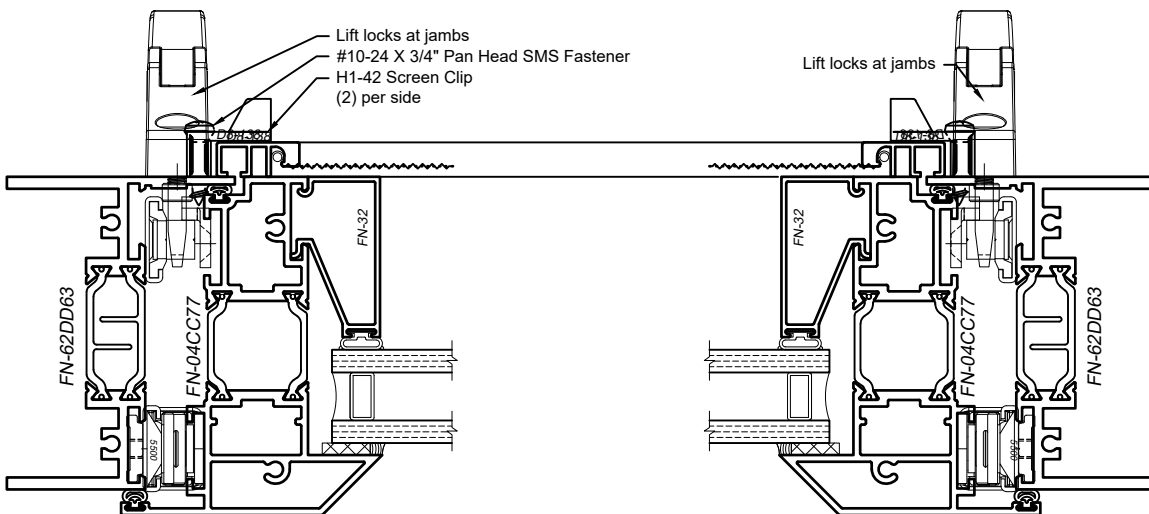
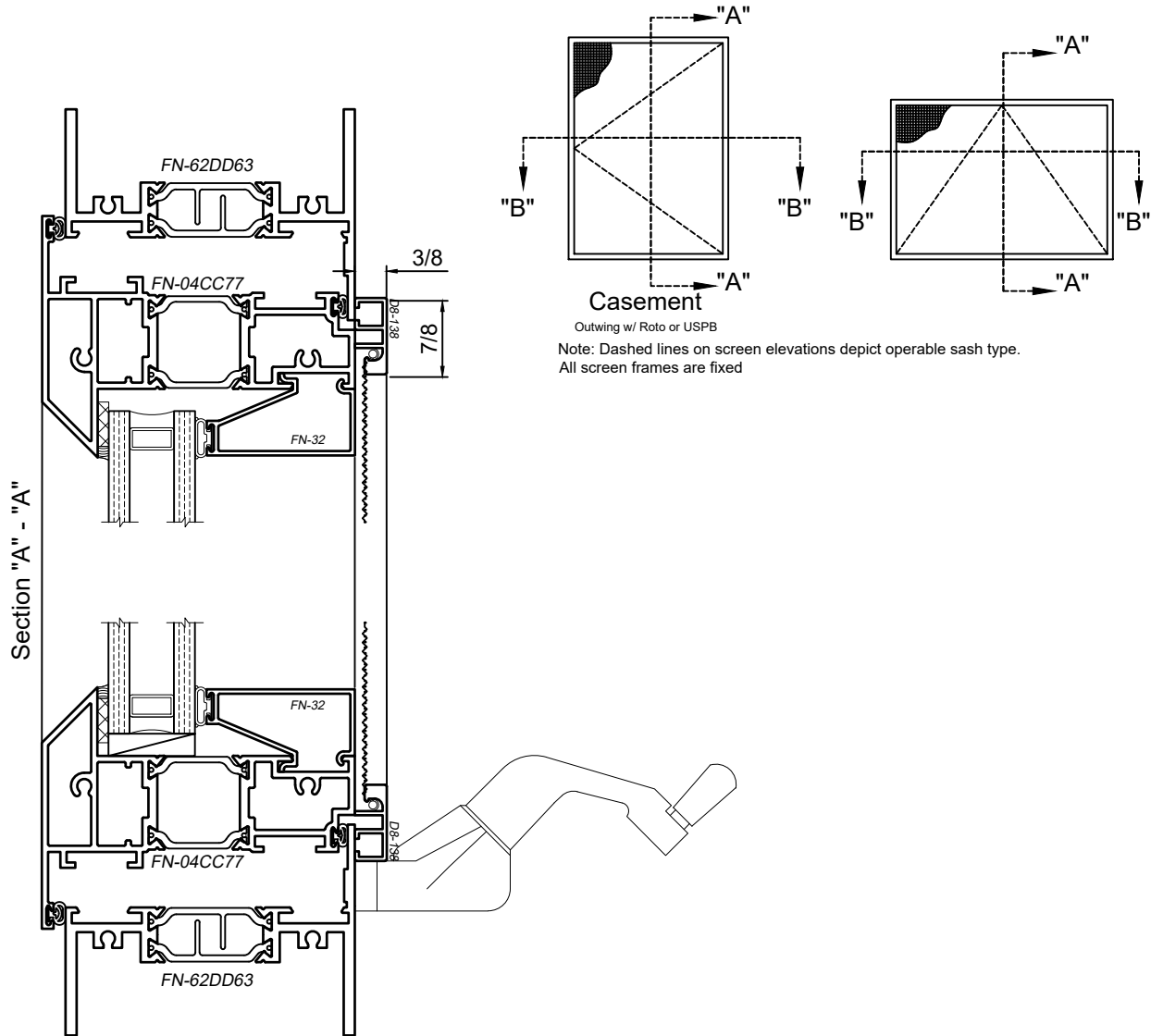
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Screen Options - PO - Awning w/ Roto Operator



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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SCALE 6"=1'-0"

Section "B" - "B"

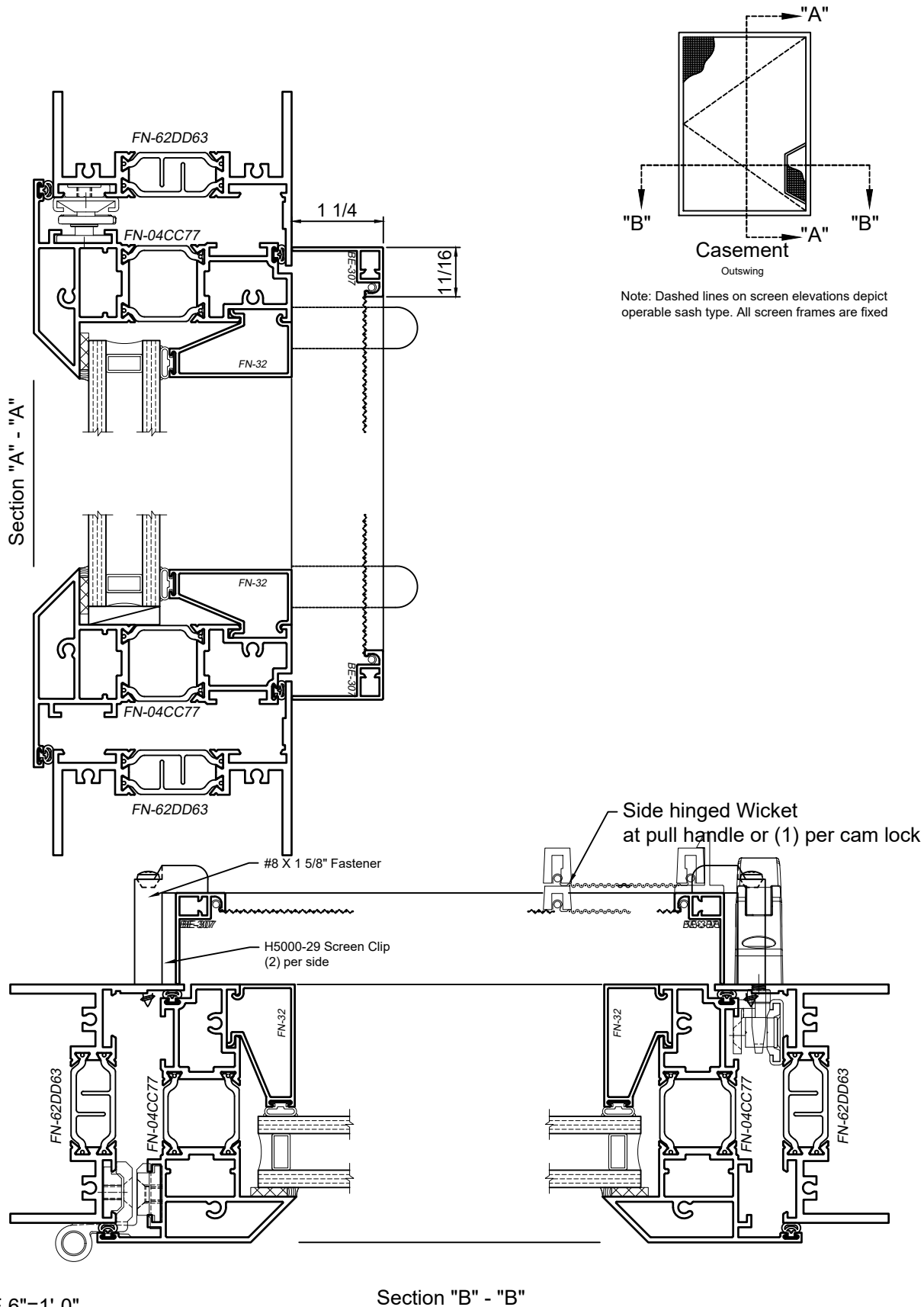
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Screen Options - Outswing Casement



Note: Typical vent screen details shown. Winco reserves the right to alter the screen attachment detail due to job specific sizing and hardware. If you have specific screen applications you would like to see please contact your local Winco Sales Representative for more information.

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SCALE 6"=1'-0"

Section "B" - "B"

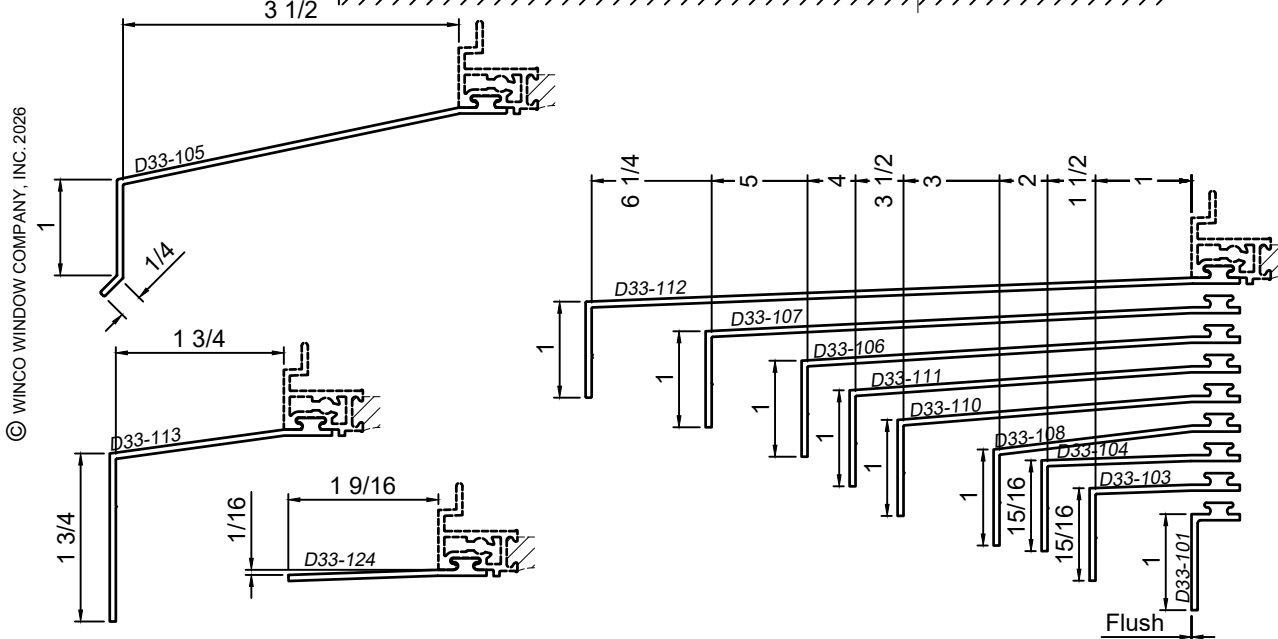
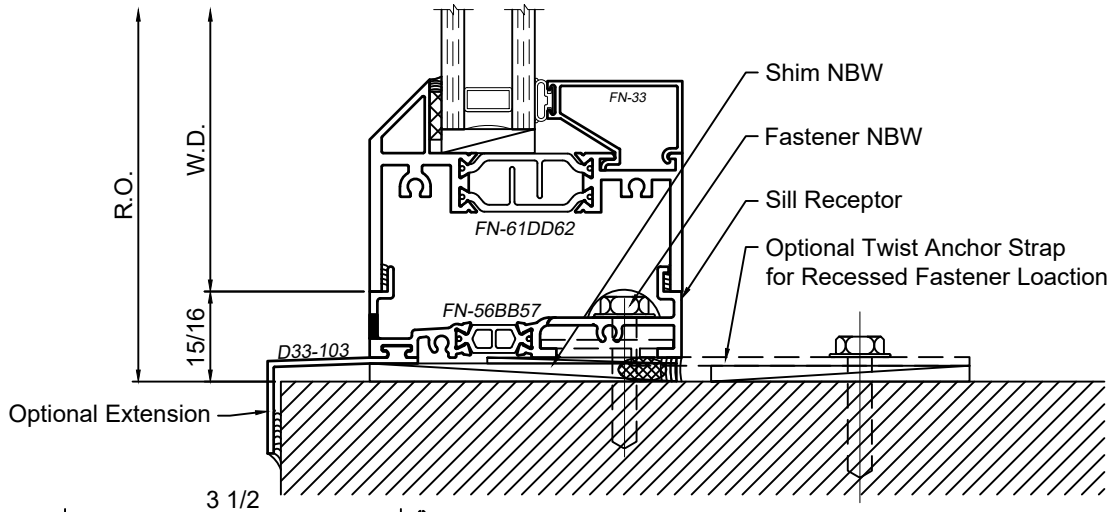
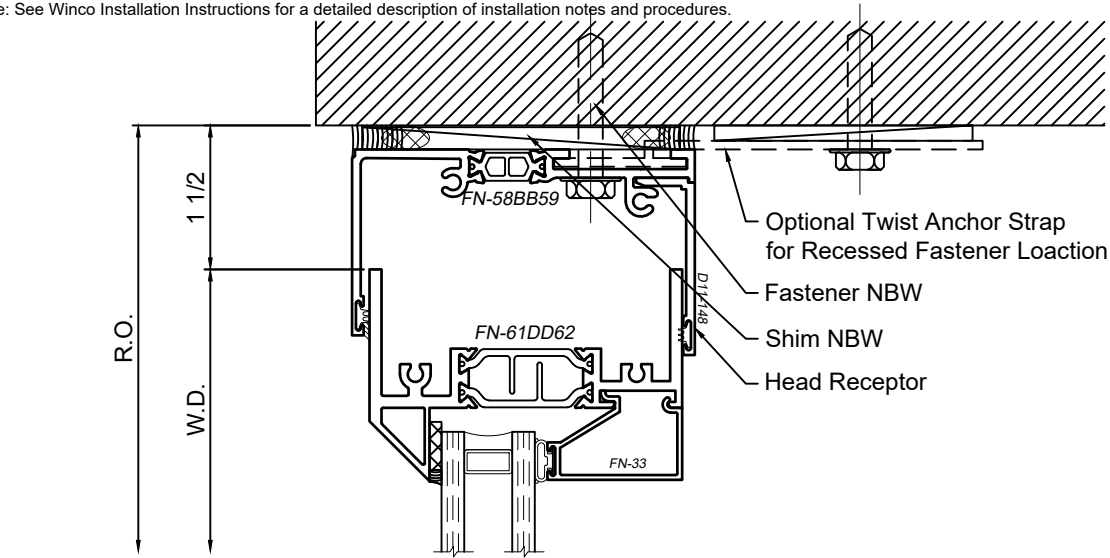
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Trim - Receptor Installation



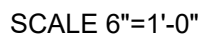
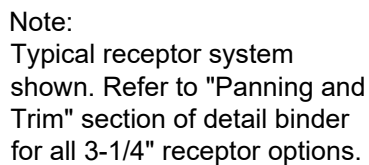
Note: See Winco Installation Instructions for a detailed description of installation notes and procedures.

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SCALE 6"=1'-0"

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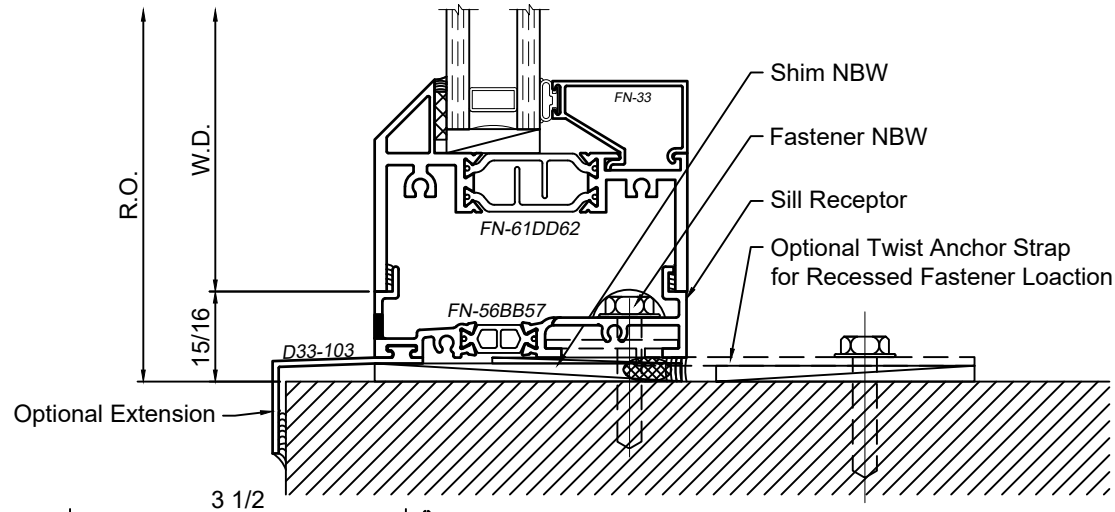
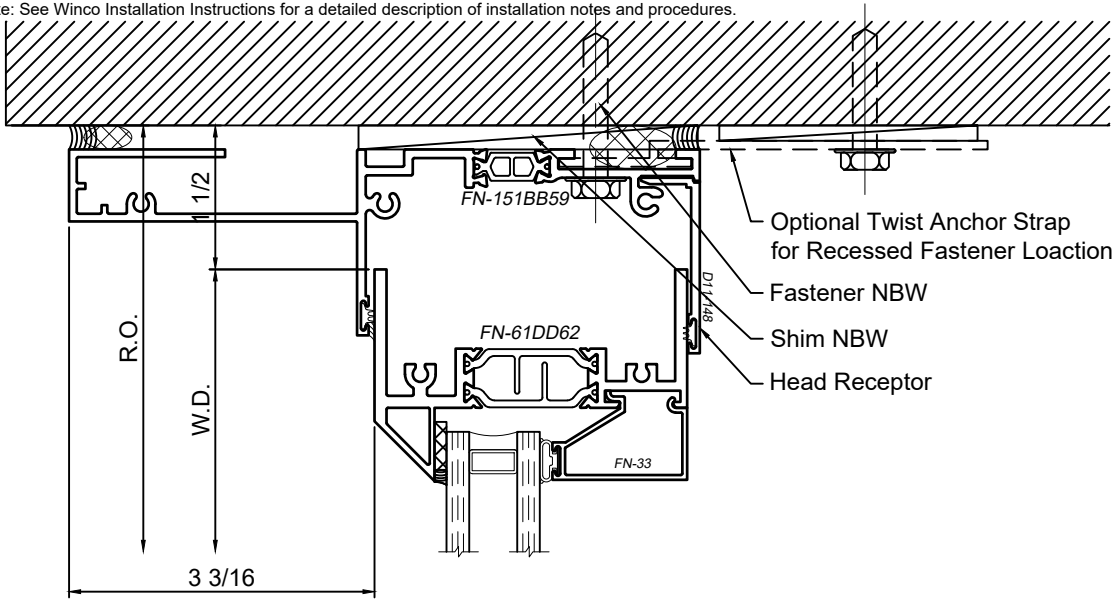
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Trim - Receptor Installation

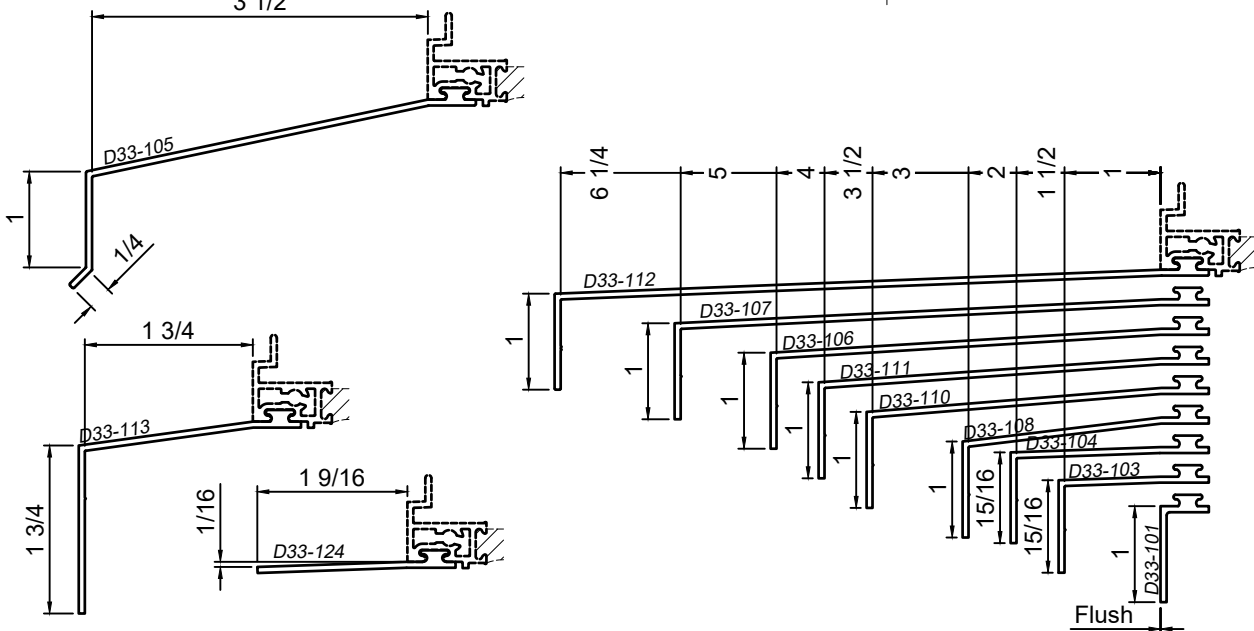


Note: See Winco Installation Instructions for a detailed description of installation notes and procedures.

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SCALE 6"=1'-0"

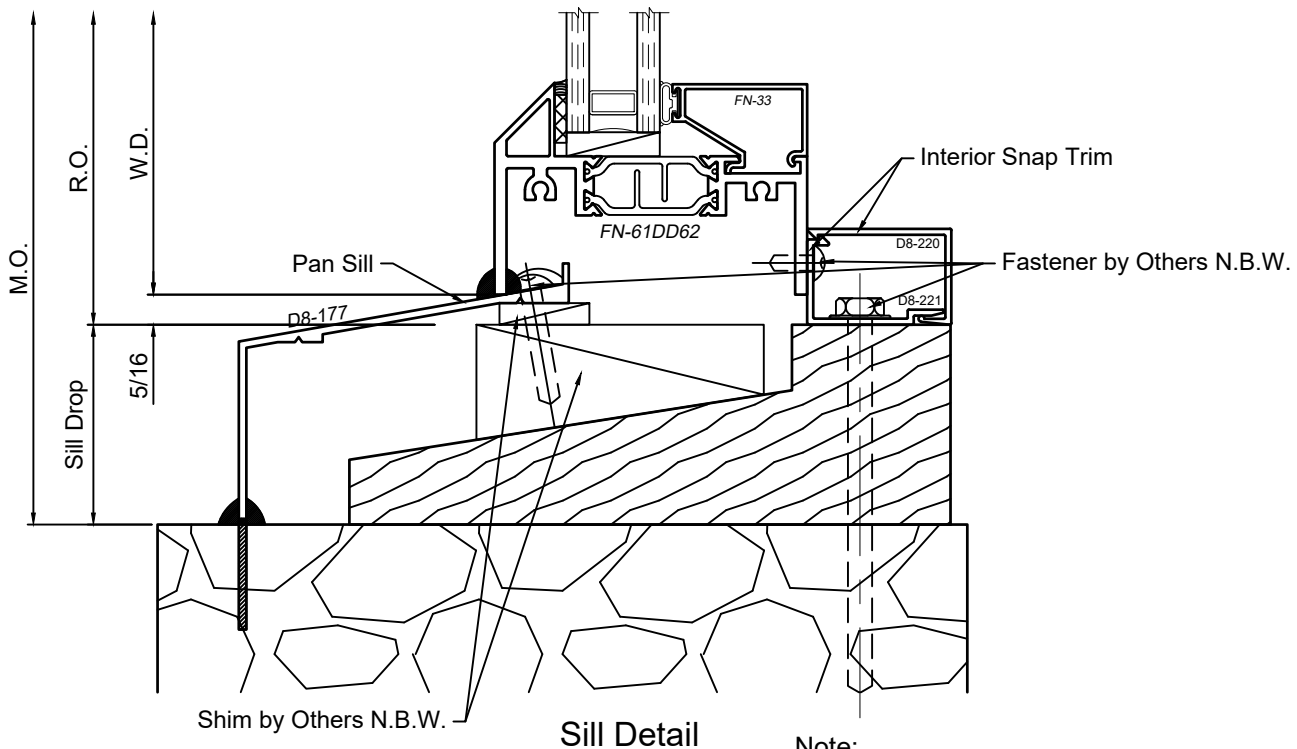
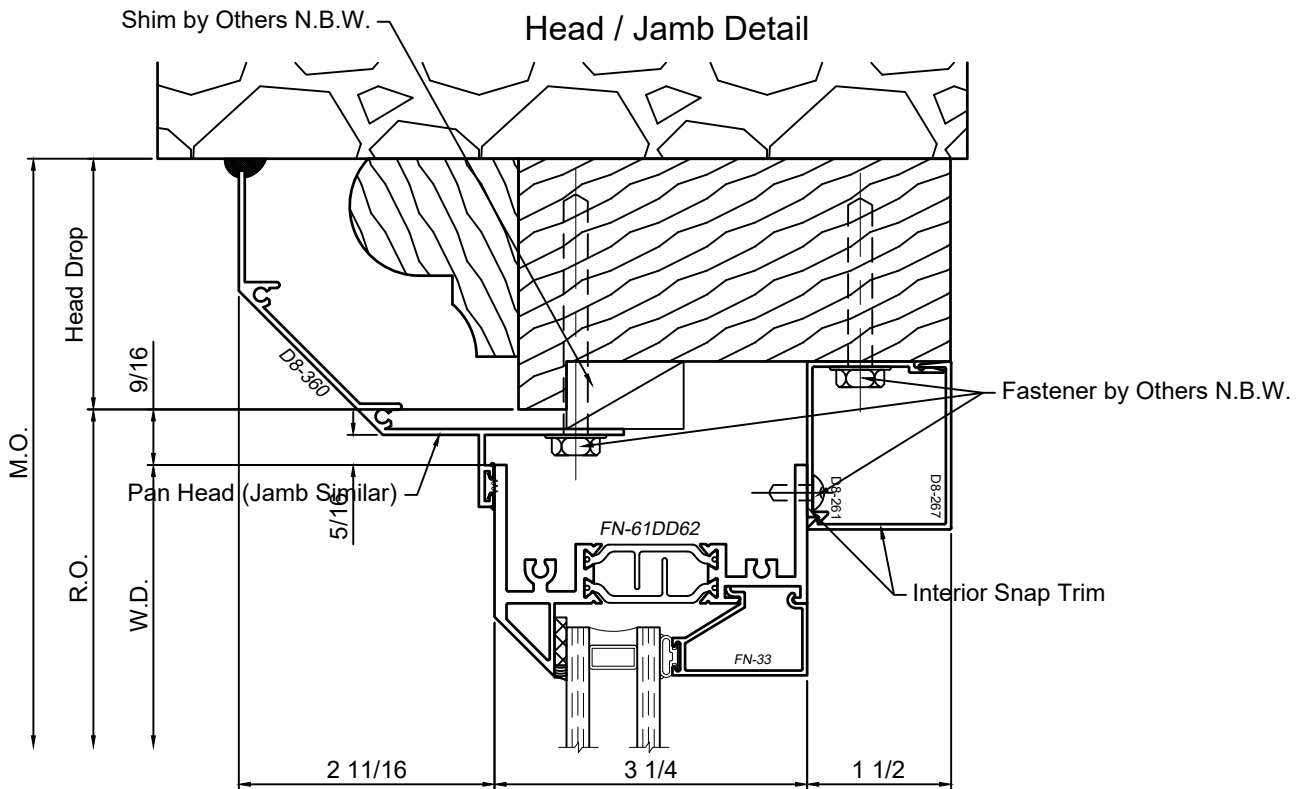
8325 Series 3-1/4" Thermal Fixed, Casement & Projected Windows

Product Details - Trim - Panning Installation



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

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Note:
Typical panning system shown. Refer to
"Panning and Trim" section of detail binder
for all panning and interior snap trim options

SCALE 6"=1'-0"

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

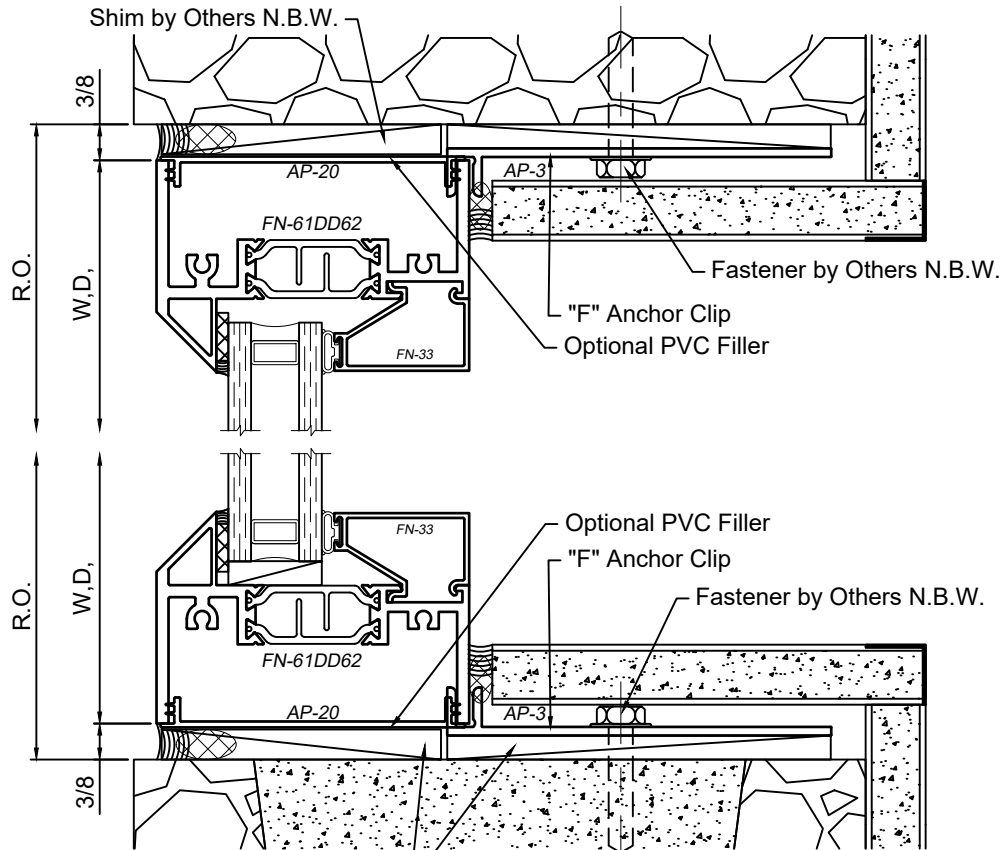
Product Details - Trim - F-Anchor and Snap Trim Installation



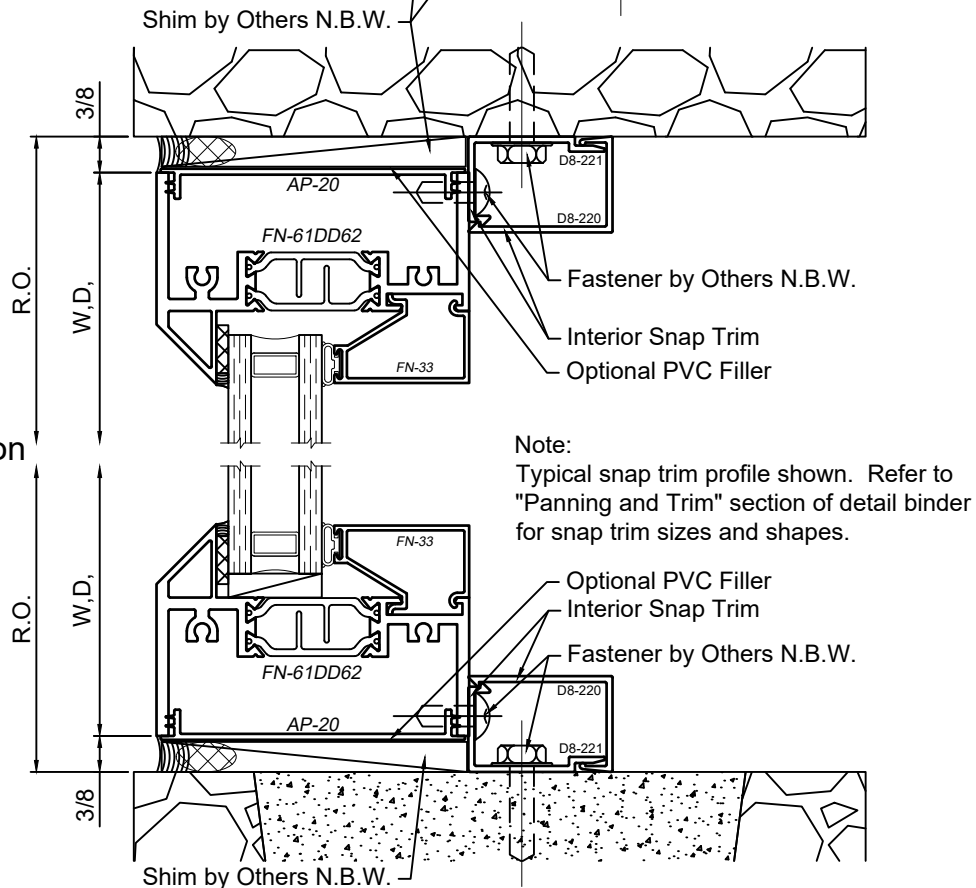
Note: See Winco Installation Instructions for a detailed description of installation notes and procedures.

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"F" Clip Installation



Snap Trim Installation

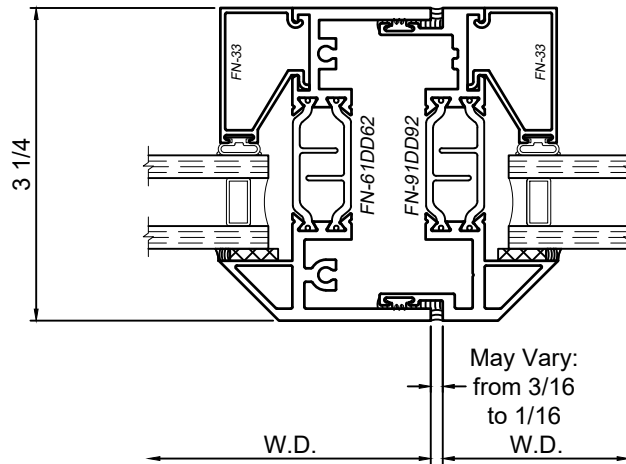


Note:
Typical snap trim profile shown. Refer to
"Panning and Trim" section of detail binder
for snap trim sizes and shapes.

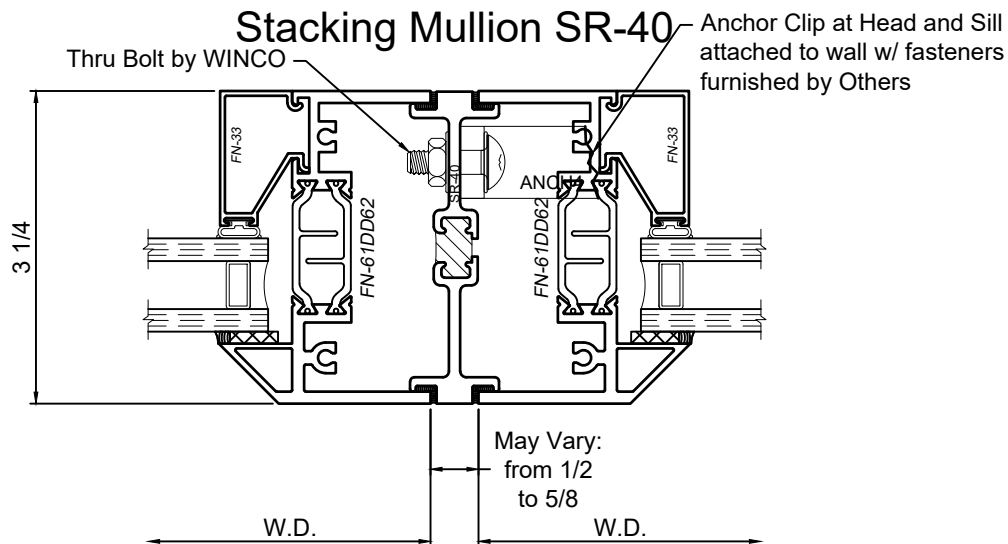
SCALE 6"=1'-0"

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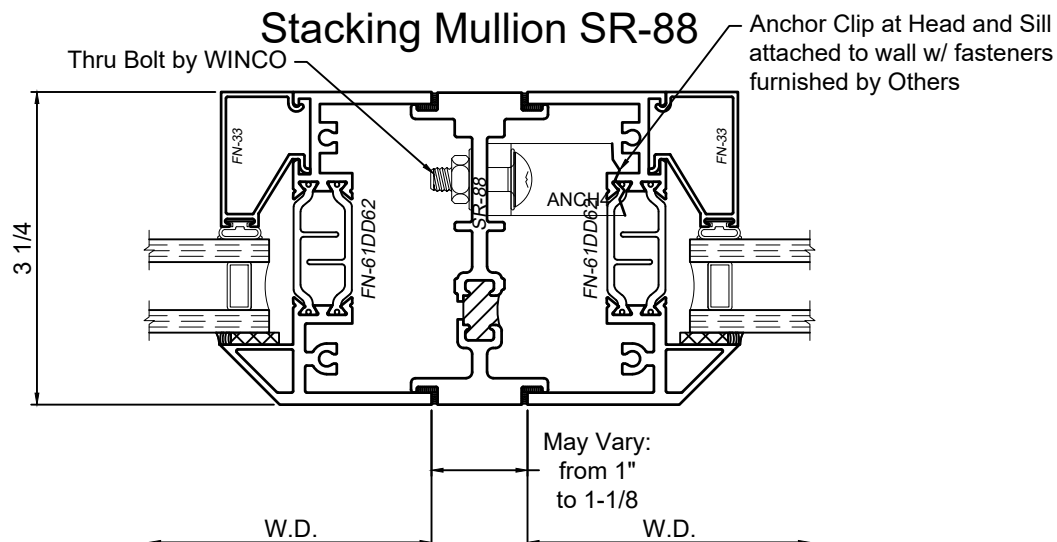
Typical Side Stack Framing



Stacking Mullion SR-40



Stacking Mullion SR-88



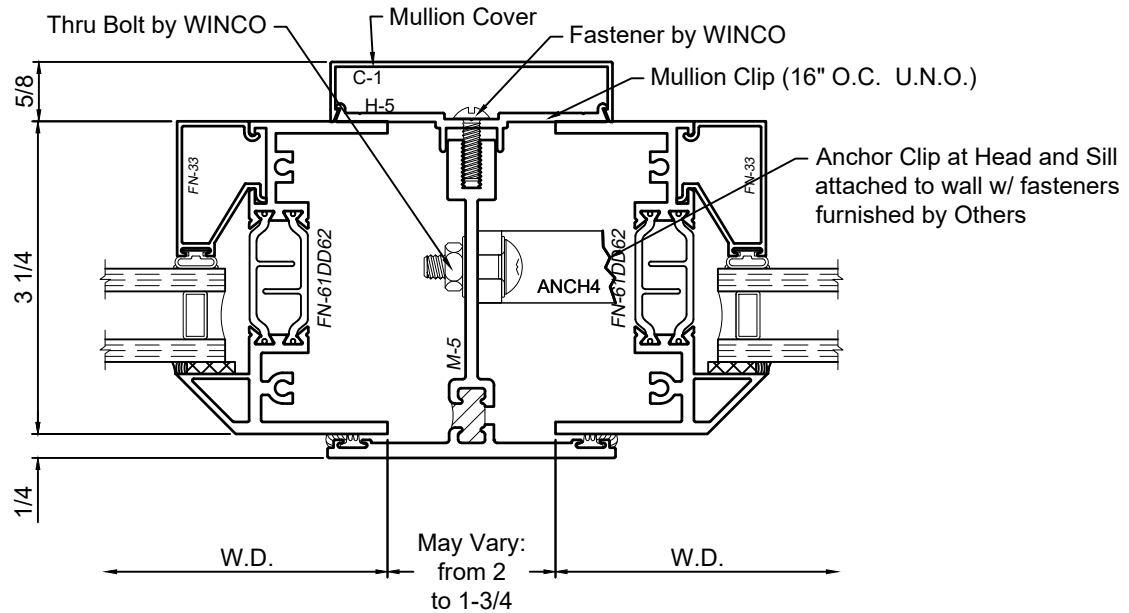
SCALE 6"=1'-0"

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

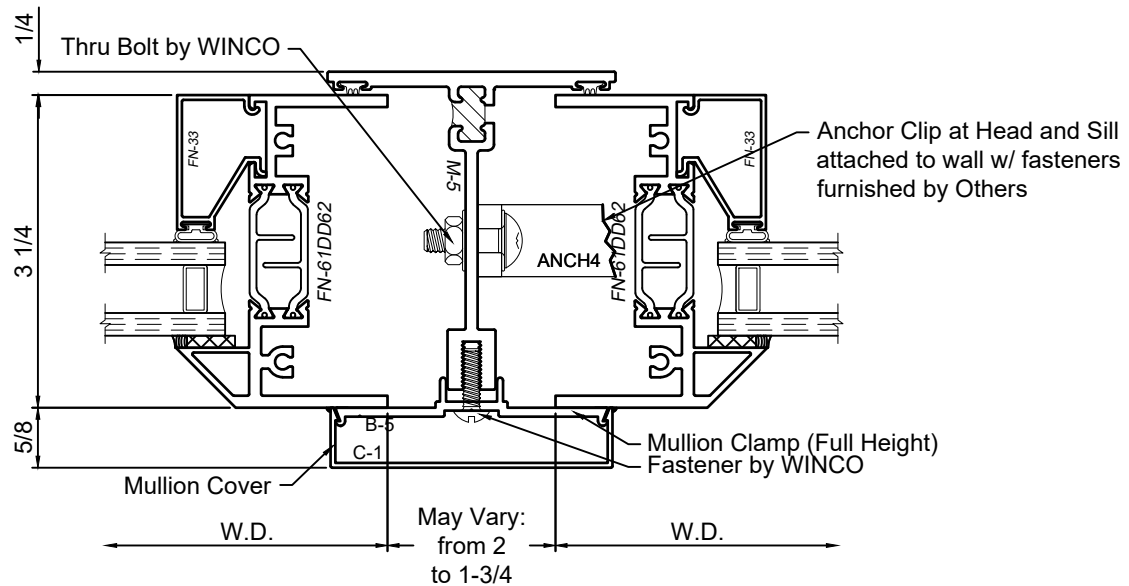
Product Details - Trim - Mullion and Stacking



M-5 Mullion set from Building Interior



M-5 Mullion set from Building Exterior



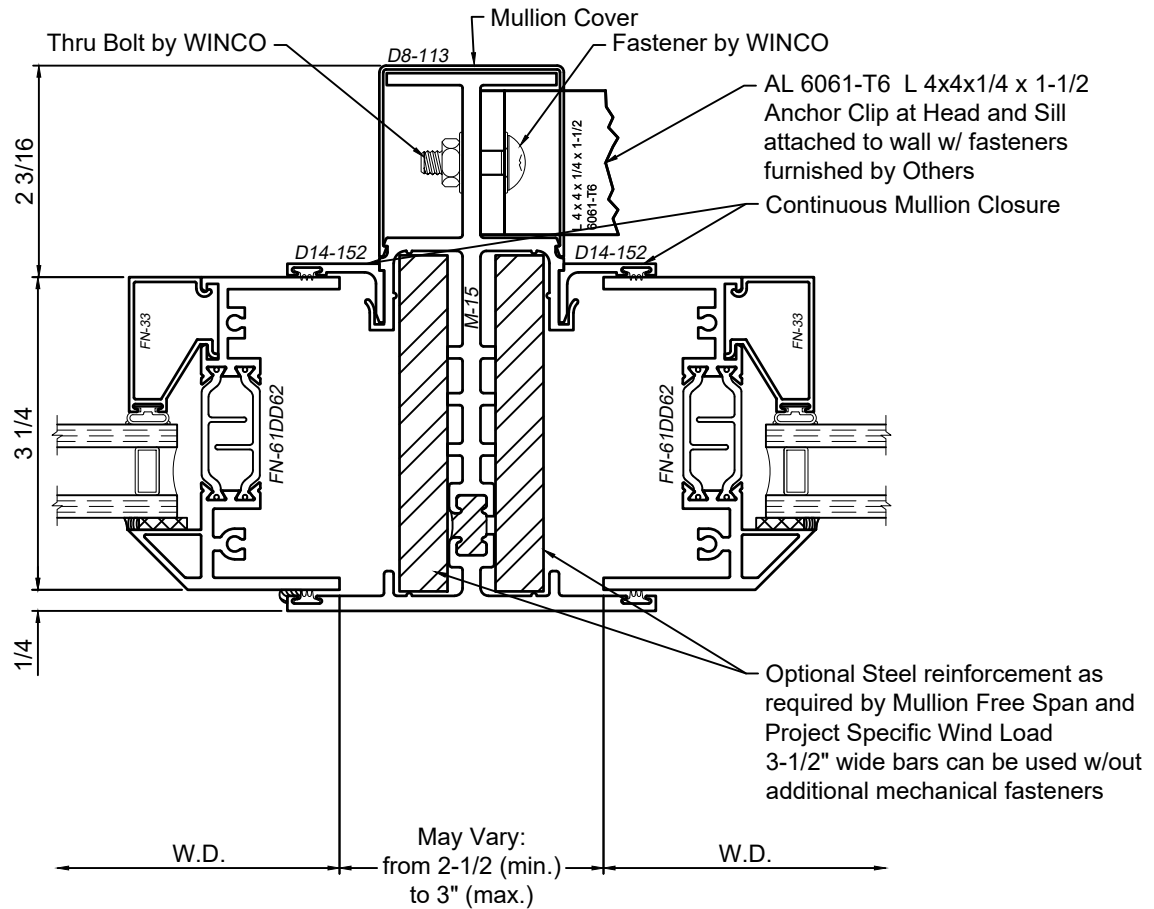
SCALE 6"=1'-0"

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

Product Details - Trim - Mullion and Stacking



M-15 Mullion set from Building Interior



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SCALE 6"=1'-0"