



**Phius Product Number:** W-101156  
**Date Last Certified:** 08/15/2023  
**THERM Files Available:** Yes

**Phius Certification Path:** Blue Path  
**Valid Through:** 08/15/2025  
**Air Leakage Test Data Available:** No



**PRODUCT INFORMATION**

<b>Product Name:</b> Cascadia Universal Inswing Tilt Turn Window	
<b>Manufacturer:</b> Cascadia Windows & Doors	<b>Primary Frame Material:</b> Fiberglass
<b>Series:</b> Universal Series	<b>Fixed or Operable:</b> Operable
<b>Model:</b> Inswing Tilt & Turn Window	<b>Operation Type:</b> Dual Action Tilt Turn
<b>NFRC CPD #:</b> CWL-K-23-00068-00001	

**IGU DETAILS**

<b>Glazing Name:</b> E180/ Arg/ Clear/ Arg/ E180 (6mm) 44,0mm		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> Cardinal Endur

**RECOMMENDED CLIMATE ZONES** (NOTE: This information is not for use in building energy models. See next section.)

Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [Btu/hr·ft²·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓	✓			
U-Whole-Window	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Modeled Size [W×H]	47.24" × 59.06"			SHGC, Whole Window: 0.37			Condensation Resistance:			

**COMPONENT-LEVEL PERFORMANCE DATA [IP Units] | Compatible with building energy modeling tools**

U-COG   Center of Glass U-Values, by Climate Zone [Btu/hr·ft²·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.51		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
<b>Frame Width</b>	4.13"	4.13"	4.13"	4.13"
<b>Frame U-Value [Btu/hr·ft²·°F]</b>	0.18	0.18	0.18	0.18
<b>Glazing-to-Frame Psi Value [Btu/hr·ft·°F]</b>	0.0098	0.0098	0.0095	0.0095
<b>Frame-to-Wall Psi Value</b> is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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**RECOMMENDED CLIMATE ZONES** (NOTE: This information is not for use in building energy models. See next section.)

Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [W/m <sup>2</sup> K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓	✓			
U-Whole-Window	0.87	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.87
Modeled Size [W × H]	1.20 m × 1.50 m			SHGC, Whole Window: 0.37			Condensation Resistance:			

**COMPONENT-LEVEL PERFORMANCE DATA** [SI Units] | Compatible with building energy modeling tools

U-COG   Center of Glass U-Values, by Climate Zone [W/m <sup>2</sup> K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.74	0.73	0.73	0.73	0.72	0.73	0.72	0.72	0.73	0.74
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.51		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
<b>Frame Section</b>	<b>Left</b>	<b>Right</b>	<b>Top</b>	<b>Bottom</b>
<b>Frame Width</b>	105 mm	105 mm	105 mm	105 mm
<b>Frame U-Value</b> [W/m <sup>2</sup> K]	1.04	1.04	1.03	1.03
<b>Glazing-to-Frame Psi Value</b> [W/mK]	0.017	0.017	0.0166	0.0166
<b>Frame-to-Wall Psi Value</b> is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				