



**Phius Product Number:** W-101157  
**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-23-00066-00001	

**IGU DETAILS**

<b>Glazing Name:</b> E366/ 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·ft <sup>2</sup> ·°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: 0.17				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·ft <sup>2</sup> ·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.24		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.13"	4.13"	4.13"	4.13"
Frame U-Value [Btu/hr·ft <sup>2</sup> ·°F]	0.18	0.18	0.18	0.18
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0101	0.0101	0.0098	0.0098
Frame-to-Wall Psi Value 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	0.83	0.82	0.82	0.83	0.82	0.82	0.83	0.83	0.83	0.85
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.17				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	0.69	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.69	0.71
SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.24		

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]	1.03	1.03	1.02	1.02
<b>Glazing-to-Frame Psi Value</b> [W/mK]	0.0175	0.0175	0.0171	0.0171
<b>Frame-to-Wall Psi Value</b> is dependent on the on-site installation condition. <i>(See Phius Guidebook for more details.)</i>				