phius certified product

Phius Product Number: W-101160
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	
Product Name: Cascadia Universal Inswing Hopper Window	
Manufacturer: Cascadia Windows & Doors	**Primary Frame Material:** Fiberglass
Series: Universal Series	**Fixed or Operable:** Operable
Model: Inswing Hopper Window	**Operation Type:** Awning
NFRC CPD #: CWL-K-24-00063-00001	

IGU DETAILS		
Glazing Name: E180/ Arg/ Clear/ Arg/ E180 (6mm) 44,0mm		
Glass Layers: Triple	**Gas Fill:** Argon	**Spacer:** 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	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16

Modeled Size [W×H] 59.06" × 23.62" **SHGC, Whole Window:** 0.29 **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*
Frame Section	**Left**	**Right**	**Top**	**Bottom**
Frame Width	4.13"	4.13"	4.13"	4.13"
Frame U-Value [Btu/hr•ft²•°F]	0.18	0.18	0.18	0.18
Glazing-to-Frame Psi Value [Btu/hr•ft•°F]	0.0093	0.0093	0.0095	0.0095

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/m²K]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones				✔	✔	✔				
U-Whole-Window	0.93	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.93	0.93

Modeled Size [W ×H] 1.50 m × 0.60 m **SHGC, Whole Window:** 0.29 **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/m²K]

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*
Frame Section	**Left**	**Right**	**Top**	**Bottom**
Frame Width	105 mm	105 mm	105 mm	105 mm
Frame U-Value [W/m²K]	1.04	1.04	1.03	1.03
Glazing-to-Frame Psi Value [W/mK]	0.0161	0.0161	0.0166	0.0166

Frame-to-Wall Psi Value is dependent on the on-site installation condition. *(See Phius Guidebook for more details.)*