



Phius Product Number: W-102652
Date Last Certified: 04/01/26
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 04/01/28
Air Leakage Test Data Available: No



PRODUCT INFORMATION	
Product Name: Alpen Zenith ZR-9 Casement & Awning	
Manufacturer: Alpen High Performance Products	Primary Frame Material: Fiberglass
Series: Zenith ZR-9	Fixed or Operable: Operable
Model: Zenith ZR-9 Casement & Awning	Operation Type: Casement
IGU DETAILS	
Glazing Name: SolarControl-9 TGQ [35mm oa]	
Glass Layers: Quad	Gas Fill: Krypton
Spacer: Ködispace 4SG	

RECOMMENDED CLIMATE ZONES <i>(NOTE: This information is not for use in building energy models. See next section.)</i>										
Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [Btu/hr·ft ² ·°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]	23.62" × 59.06"		SHGC, Whole Window: 0.18				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 ² ·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.10
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.26		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.91"	2.91"	2.91"	2.91"
Frame U-Value [Btu/hr·ft ² ·°F]	0.19	0.19	0.19	0.19
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0182	0.0182	0.0182	0.0182
Frame-to-Wall Psi Value is dependent on the on-site installation condition. <i>(See Phius Guidebook for more details.)</i>				



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RECOMMENDED CLIMATE ZONES <i>(NOTE: This information is not for use in building energy models. See next section.)</i>										
Recommended Climate Zones and Whole-Window U-values by Zone, at Standard Model Size [W/m ² K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones	✓	✓	✓	✓	✓	✓	✓			
U-Whole-Window	0.86	0.85	0.85	0.86	0.85	0.85	0.85	0.85	0.84	0.85
Modeled Size [W × H]	0.60 m × 1.50 m		SHGC, Whole Window: 0.18				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 ² K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.56	0.55	0.55	0.55	0.54	0.55	0.54	0.54	0.54	0.55
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.26		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	74 mm	74 mm	74 mm	74 mm
Frame U-Value [W/m²K]	1.10	1.10	1.11	1.11
Glazing-to-Frame Psi Value [W/mK]	0.0316	0.0316	0.0315	0.0315

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