



Phius Product Number: W-102650
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: Balanced-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: 0.25				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								0.37		

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 ² ·°F]	0.0182	0.0182	0.0181	0.0183
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: 0.25				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	0.53	0.54
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.37		

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]	0.0315	0.0315	0.0314	0.0317
Frame-to-Wall Psi Value is dependent on the on-site installation condition. <i>(See Phius Guidebook for more details.)</i>				