



Phius Product Number: W-101851
Date Last Certified: 01/02/2024
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 01/02/2026
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen ZR-9 Fixed	
Manufacturer: Alpen High Performance Products	Primary Frame Material: Fiberglass
Series: Zenith	Fixed or Operable: Fixed
Model: ZR-9 Fixed	Operation Type: Fixed

IGU DETAILS

Glazing Name: 925-9H		
Glass Layers: Quad	Gas Fill: Argon	Spacer: Allmetal 250P SST

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 ² ·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓	✓	✓		
U-Whole-Window	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Modeled Size [W×H]	47.24" × 59.06"			SHGC, Whole Window: 0.38			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	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.48		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
	Left	Right	Top	Bottom
Frame Width	2.83"	2.83"	2.83"	2.83"
Frame U-Value [Btu/hr·ft ² ·°F]	0.16	0.16	0.16	0.16
Glazing-to-Frame Psi Value [Btu/hr·ft ² ·°F]	0.0316	0.0316	0.0314	0.0315

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 <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	0.74	0.73	0.73	0.72	0.72	0.72	0.72	0.72	0.71	0.71
Modeled Size [W x H]	1.20 m x 1.50 m			SHGC, Whole Window: 0.38			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	0.51	0.50	0.50	0.50	0.49	0.50	0.49	0.49	0.48	0.48
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.48		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	72 mm	72 mm	72 mm	72 mm
Frame U-Value [W/m ² K]	0.90	0.90	0.90	0.90
Glazing-to-Frame Psi Value [W/mK]	0.0548	0.0548	0.0545	0.0546

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