



**Phius Product Number:** W-101845  
**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	
<b>Product Name:</b> Alpen ZR-6 Fixed	
<b>Manufacturer:</b> Alpen High Performance Products	<b>Primary Frame Material:</b> Fiberglass
<b>Series:</b> Zenith	<b>Fixed or Operable:</b> Fixed
<b>Model:</b> ZR-6 Fixed	<b>Operation Type:</b> Fixed

IGU DETAILS		
<b>Glazing Name:</b> 109/L		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> Allmetal 250P SST

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 <sup>2</sup> ·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
<b>Recommended Zones</b>				✓	✓	✓	✓			
<b>U-Whole-Window</b>	0.15	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
<b>Modeled Size [W×H]</b>	47.24" × 59.06"		<b>SHGC, Whole Window:</b> 0.27				<b>Condensation Resistance:</b>			

**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
<b>U-COG Value</b>	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12
<b>SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones</b>								0.34		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
<b>Frame Width</b>	2.83"	2.83"	2.83"	2.83"
<b>Frame U-Value [Btu/hr·ft<sup>2</sup>·°F]</b>	0.14	0.14	0.14	0.14
<b>Glazing-to-Frame Psi Value [Btu/hr·ft·°F]</b>	0.0290	0.0290	0.0287	0.0290

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



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<b>Manufacturer:</b> Alpen High Performance Products	<b>Primary Frame Material:</b> Fiberglass
<b>Series:</b> Zenith	<b>Fixed or Operable:</b> Fixed
<b>Model:</b> ZR-6 Fixed	<b>Operation Type:</b> Fixed

IGU DETAILS		
<b>Glazing Name:</b> 109/L		
<b>Glass Layers:</b> Triple	<b>Gas Fill:</b> Argon	<b>Spacer:</b> Allmetal 250P SST

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 <sup>2</sup> K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
<b>Recommended Zones</b>				✓	✓	✓	✓			
<b>U-Whole-Window</b>	0.83	0.81	0.81	0.82	0.81	0.81	0.81	0.80	0.80	0.82
<b>Modeled Size [W × H]</b>	1.20 m × 1.50 m		<b>SHGC, Whole Window:</b> 0.27				<b>Condensation Resistance:</b>			

**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
<b>U-COG Value</b>	0.66	0.64	0.64	0.65	0.64	0.64	0.63	0.63	0.63	0.65
<b>SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones</b>								0.34		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
<b>Frame Width</b>	72 mm	72 mm	72 mm	72 mm
<b>Frame U-Value [W/m<sup>2</sup>K]</b>	0.82	0.82	0.82	0.82
<b>Glazing-to-Frame Psi Value [W/mK]</b>	0.0503	0.0503	0.0498	0.0502

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