



**Phius Product Number:** D-100180  
**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 Zenith ZR-9 Sliding Glass Door		
<b>Manufacturer:</b> Alpen High Performance Products	<b>Primary Frame Material:</b> Fiberglass	
<b>Series:</b> Zenith	<b>Operation Category:</b> Sliding Door	
<b>Model:</b> Zenith ZR-9 Sliding Glass Door	<b>Operation Type:</b> Sliding Door	
IGU DETAILS		
<b>Glazing Name:</b> LoE272-HM88-HM88-LoE272-Balanced		
<b>Glass Layers:</b> Quad	<b>Gas Fill:</b> Argon	<b>Spacer Model:</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-Door 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-Door</b>	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
<b>Modeled Size [W × H]</b>	78.74" × 78.74"			<b>SHGC, Whole Door:</b> 0.25			<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>	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.08
<b>SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones</b>								0.33		

Frame Parameters	Left Jamb	Right Meeting Rail	Left Head	Left Sill
Frame Section	Left	Right	Top	Bottom
<b>Frame Width</b>	4.13"	1.42"	4.37"	4.45"
<b>Frame U-Value [Btu/hr·ft<sup>2</sup>·°F]</b>	0.19	0.30	0.23	0.31
<b>Glazing-to-Frame Psi Value [Btu/hr·ft<sup>2</sup>·°F]</b>	0.0359	0.0343	0.0355	0.0357

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

Frame Parameters, Lite-Two	Left Meeting Rail	Right Jamb	Right Head	Right Sill
Frame Section	Left	Right	Top	Bottom
<b>Frame Width</b>	4.13"	1.38"	4.37"	4.45"
<b>Frame U-Value [Btu/hr·ft<sup>2</sup>·°F]</b>	0.12	0.18	0.21	0.42
<b>Glazing-to-Frame Psi Value [Btu/hr·ft<sup>2</sup>·°F]</b>	0.0331	0.0356	0.0327	0.0339

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

For horizontal two-lite doors, assume Lite One is on the left and Lite Two is on the right. The right jamb of Lite One is the right meeting rail. The left jamb of Lite Two is the left meeting rail. | 09/19/2024



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<b>Manufacturer:</b> Alpen High Performance Products	<b>Primary Frame Material:</b> Fiberglass	
<b>Series:</b> Zenith	<b>Operation Category:</b> Sliding Door	
<b>Model:</b> Zenith ZR-9 Sliding Glass Door	<b>Operation Type:</b> Sliding Door	
IGU DETAILS		
<b>Glazing Name:</b> LoE272-HM88-HM88-LoE272-Balanced		
<b>Glass Layers:</b> Quad	<b>Gas Fill:</b> Argon	<b>Spacer Model:</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-Door 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-Door	0.82	0.81	0.81	0.82	0.81	0.81	0.81	0.81	0.80	0.81
<b>Modeled Size [W × H]</b>	2.00 m × 2.00 m			<b>SHGC, Whole Door:</b> 0.25			<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/m²K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.08
<b>SHGC-COG   Center of Glass Solar Heat Gain Coefficient, All Climate Zones</b>								0.33		

Frame Parameters	Left Jamb	Right Meeting Rail	Left Head	Left Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	105 mm	36 mm	111 mm	113 mm
Frame U-Value [W/m²K]	1.05	1.73	1.28	1.78
Glazing-to-Frame Psi Value [W/mK]	0.0622	0.0594	0.0615	0.0619

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

Frame Parameters, Lite-Two	Left Meeting Rail	Right Jamb	Right Head	Right Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	105 mm	35 mm	111 mm	113 mm
Frame U-Value [W/m²K]	0.71	1.04	1.17	2.39
Glazing-to-Frame Psi Value [W/mK]	0.0574	0.0617	0.0566	0.0588

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

For horizontal two-lite doors, assume Lite One is on the left and Lite Two is on the right. The right jamb of Lite One is the right meeting rail. The left jamb of Lite Two is the left meeting rail. | 09/19/2024