phius certified product

Phius Product Number: D-100180
Date Last Certified: 01/02/2024
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through:
Air Leakage Test Data Available: No

PRODUCT INFORMATION	
Product Name: Alpen Zenith ZR-9 Sliding Glass Door	
Manufacturer: Alpen High Performance Products	**Primary Frame Material:** Fiberglass
Series: Zenith	**Operation Category:** Sliding Door
Model: Zenith ZR-9 Sliding Glass Door	**Operation Type:** Sliding Door

IGU DETAILS		
Glazing Name: LoE272-HM88-HM88-LoE272-Balanced		
Glass Layers: Quad	**Gas Fill:** Argon	**Spacer Model:** 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-Door U-values by Zone, at Standard Model Size [Btu/hr•ft²•°F]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones	✔	✔	✔	✔	✔	✔	✔			
U-Whole-Door	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14

Modeled Size [W ×H] 78.74" × 78.74" **SHGC, Whole Door:** 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•ft²•°F]

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

SHGC-COG | Center of Glass Solar Heat Gain Coefficient, All Climate Zones 0.33

Frame Parameters	*Left Jamb*	*Right Meeting Rail*	*Left Head*	*Left Sill*
Frame Section	**Left**	**Right**	**Top**	**Bottom**
Frame Width	4.13"	1.42"	4.37"	4.45"
Frame U-Value [Btu/hr•ft²•°F]	0.19	0.30	0.23	0.31
Glazing-to-Frame Psi Value [Btu/hr•ft•°F]	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**
Frame Width	4.13"	1.38"	4.37"	4.45"
Frame U-Value [Btu/hr•ft²•°F]	0.12	0.18	0.21	0.42
Glazing-to-Frame Psi Value [Btu/hr•ft•°F]	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 Light 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. | *12/23/2025*

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Manufacturer: Alpen High Performance Products	**Primary Frame Material:** Fiberglass
Series: Zenith	**Operation Category:** Sliding Door
Model: Zenith ZR-9 Sliding Glass Door	**Operation Type:** Sliding Door

IGU DETAILS		
Glazing Name: LoE272-HM88-HM88-LoE272-Balanced		
Glass Layers: Quad	**Gas Fill:** Argon	**Spacer Model:** 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-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

Modeled Size [W ×H] 2.00 m × 2.00 m **SHGC, Whole Door:** 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/m²K]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.45	0.44	0.44	0.44	0.43	0.44	0.43	0.43	0.42	0.43

SHGC-COG | Center of Glass Solar Heat Gain Coefficient, All Climate Zones 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 Light 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. | *12/23/2025*