



Phius Product Number: W-101837
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 Zenith Casement

Manufacturer: Alpen High Performance Products

Primary Frame Material: Fiberglass

Series: Zenith

Fixed or Operable: Operable

Model: Zenith Casement

Operation Type: Casement

IGU DETAILS

Glazing Name: HighGain-6 TGT

Glass Layers: Triple

Gas Fill: Argon

Spacer: Quanex Super Spacer Premium

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·ft²·°F]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓				
U-Whole-Window	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17

Modeled Size [W×H]

23.62" × 59.06"

SHGC, Whole Window: 0.40

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	0.13	0.12	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12

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

0.58

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.87"	2.87"	2.87"	2.87"
Frame U-Value [Btu/hr·ft ² ·°F]	0.18	0.18	0.18	0.18
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0207	0.0207	0.0206	0.0206
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 (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 [W/m²K]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓				
U-Whole-Window	0.97	0.96	0.96	0.96	0.95	0.96	0.95	0.95	0.94	0.95

Modeled Size [W × H]

0.60 m × 1.50 m

SHGC, Whole Window: 0.40

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	0.72	0.71	0.71	0.71	0.70	0.70	0.70	0.69	0.69	0.70

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

0.58

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	73 mm	73 mm	73 mm	73 mm
Frame U-Value [W/m ² K]	1.04	1.04	1.05	1.05
Glazing-to-Frame Psi Value [W/mK]	0.0359	0.0359	0.0358	0.0358
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				