



Phius Product Number: W-101019
Date Last Certified: 08/15/2023
THERM Files Available: Yes

Phius Certification Path: Orange Path
Valid Through: 08/15/2025
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol TT

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol

Fixed or Operable: Operable

Model: Tyrol TT

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: HighGain-6

Glass Layers: Triple

Gas Fill: Argon

Spacer: Allmetal Allmetal 250P Hi-Q Steel

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]

47.24" × 59.06"

SHGC, Whole Window: 0.36

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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13

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

0.53

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.53"	4.53"	4.53"	4.53"
Frame U-Value [Btu/hr·ft ² ·°F]	0.17	0.17	0.17	0.17
Glazing-to-Frame Psi Value [Btu/hr·ft·°F]	0.0381	0.0381	0.0381	0.0381
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-101019
Date Last Certified: 08/15/2023
THERM Files Available: Yes

Phius Certification Path: Orange Path
Valid Through: 08/15/2025
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol TT

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol

Fixed or Operable: Operable

Model: Tyrol TT

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: HighGain-6

Glass Layers: Triple

Gas Fill: Argon

Spacer: Allmetal Allmetal 250P Hi-Q Steel

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	0.98	0.97	0.97	0.97	0.96	0.97	0.96	0.96	0.96	0.97

Modeled Size [W × H] 1.20 m × 1.50 m

SHGC, Whole Window: 0.36

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	0.75	0.73	0.73	0.73	0.72	0.73	0.72	0.72	0.72	0.74

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

0.53

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	115 mm	115 mm	115 mm	115 mm
Frame U-Value [W/m ² K]	0.96	0.96	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0661	0.0661	0.0661	0.0661
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				