



Phius Product Number: W-101020
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 Pro Krypton		
Glass Layers: Triple	Gas Fill: Krypton	Spacer: Allmetal Allmetal 250P Hi-Q Steel

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 ² ·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓	✓			
U-Whole-Window	0.14	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.16	0.16
Modeled Size [W×H]	47.24" × 59.06"			SHGC, Whole Window: 0.35			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·ft ² ·°F]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.09	0.09	0.09	0.08	0.10	0.09	0.10	0.10	0.11	0.12
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.51		

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 ² ·°F]	0.0388	0.0388	0.0388	0.0388

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



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Series: Tyrol	Fixed or Operable: Operable	
Model: Tyrol TT	Operation Type: Dual Action Tilt Turn	
IGU DETAILS		
Glazing Name: HighGain-6 Pro Krypton		
Glass Layers: Triple	Gas Fill: Krypton	Spacer: Allmetal Allmetal 250P Hi-Q Steel

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 ² K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
Recommended Zones					✓	✓	✓			
U-Whole-Window	0.81	0.82	0.82	0.80	0.84	0.83	0.87	0.87	0.91	0.93
Modeled Size [W × H]	1.20 m × 1.50 m			SHGC, Whole Window: 0.35			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/m ² K]										
Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.49	0.50	0.50	0.48	0.55	0.52	0.58	0.59	0.64	0.67
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.51		

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/m²K]	0.96	0.96	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0673	0.0673	0.0673	0.0673
Frame-to-Wall Psi Value is dependent on the on-site installation condition. <i>(See Phius Guidebook for more details.)</i>				