



Phius Product Number: W-101816
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 Tyrol TR-6 Tilt Turn	
Manufacturer: Alpen High Performance Products	Primary Frame Material: Vinyl
Series: Tyrol	Fixed or Operable: Operable
Model: Tyrol TR-6 Tilt Turn	Operation Type: Dual Action Tilt Turn

IGU DETAILS		
Glazing Name: SolarControl-6 PH+ TGT		
Glass Layers: Triple	Gas Fill: Argon	Spacer: Quanex Super Spacer Premium

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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14
Modeled Size [W×H]	47.24" × 59.06"		SHGC, Whole Window: 0.18				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	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.12
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.27		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.61"	4.61"	4.61"	4.61"
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]	0.0139	0.0139	0.0142	0.0139

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



Phius Product Number: W-101816
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 Tyrol TR-6 Tilt Turn	
Manufacturer: Alpen High Performance Products	Primary Frame Material: Vinyl
Series: Tyrol	Fixed or Operable: Operable
Model: Tyrol TR-6 Tilt Turn	Operation Type: Dual Action Tilt Turn

IGU DETAILS		
Glazing Name: SolarControl-6 PH+ TGT		
Glass Layers: Triple	Gas Fill: Argon	Spacer: Quanex Super Spacer Premium

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	0.75	0.74	0.74	0.75	0.74	0.74	0.75	0.76	0.79	0.82
Modeled Size [W x H]	1.20 m x 1.50 m		SHGC, Whole Window: 0.18				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	0.57	0.56	0.56	0.56	0.56	0.56	0.57	0.58	0.63	0.67
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.27		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	117 mm	117 mm	117 mm	117 mm
Frame U-Value [W/m²K]	0.94	0.94	0.94	0.95
Glazing-to-Frame Psi Value [W/mK]	0.0241	0.0241	0.0246	0.0241

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