



Phius Product Number: W-102525
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Balanced-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.13	0.12	0.12	0.13	0.12	0.12	0.12	0.13	0.13	0.14

Modeled Size [W×H]

47.24" × 59.06"

SHGC, Whole Window: 0.31

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	0.10	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

0.39

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.76"	2.76"	2.76"	2.76"
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]	0.0136	0.0136	0.0136	0.0136
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Balanced-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.72	0.71	0.71	0.71	0.70	0.71	0.71	0.72	0.76	0.79

Modeled Size [W × H] 1.20 m × 1.50 m

SHGC, Whole Window: 0.31

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	0.58	0.56	0.56	0.57	0.56	0.56	0.57	0.58	0.63	0.66

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

0.39

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	70 mm	70 mm	70 mm	70 mm
Frame U-Value [W/m ² K]	0.97	0.97	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0236	0.0236	0.0236	0.0236
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102528
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Balanced-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12
Modeled Size [W×H]	47.24" × 59.06"			SHGC, Whole Window: 0.29				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	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.37		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.76"	2.76"	2.76"	2.76"
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]	0.0135	0.0135	0.0135	0.0135
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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THERM Files Available: No

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



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Balanced-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.65	0.64	0.64	0.64	0.64	0.64	0.64	0.65	0.67	0.69

Modeled Size [W × H] 1.20 m × 1.50 m

SHGC, Whole Window: 0.29

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	0.49	0.48	0.48	0.48	0.47	0.47	0.48	0.49	0.52	0.54

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

0.37

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	70 mm	70 mm	70 mm	70 mm
Frame U-Value [W/m ² K]	0.97	0.97	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0235	0.0235	0.0235	0.0235
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: HighGain-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.15
Modeled Size [W×H]	47.24" × 59.06"				SHGC, Whole Window: 0.47			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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.13
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.59		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.76"	2.76"	2.76"	2.76"
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]	0.0136	0.0136	0.0136	0.0136
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: HighGain-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.77	0.75	0.75	0.76	0.75	0.75	0.75	0.76	0.80	0.83
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.47				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	0.64	0.62	0.62	0.62	0.61	0.62	0.62	0.63	0.68	0.71
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.59		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	70 mm	70 mm	70 mm	70 mm
Frame U-Value [W/m ² K]	0.97	0.97	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0236	0.0236	0.0236	0.0236
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102530
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: HighGain-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13
Modeled Size [W×H]	47.24" × 59.06"		SHGC, Whole Window: 0.44				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	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.55		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.76"	2.76"	2.76"	2.76"
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]	0.0135	0.0135	0.0135	0.0135
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102530
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THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: HighGain-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.68	0.67	0.67	0.68	0.67	0.67	0.68	0.68	0.70	0.72
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.44				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	0.53	0.52	0.52	0.52	0.52	0.52	0.53	0.53	0.56	0.58
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.55		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	70 mm	70 mm	70 mm	70 mm
Frame U-Value [W/m ² K]	0.97	0.97	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0235	0.0235	0.0234	0.0235
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102529
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Solarcontrol-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12

Modeled Size [W×H]

47.24" × 59.06"

SHGC, Whole Window: 0.21

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	0.09	0.09	0.09	0.10

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

0.26

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	2.76"	2.76"	2.76"	2.76"
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]	0.0136	0.0136	0.0135	0.0135
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102529
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THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Solarcontrol-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.64	0.63	0.63	0.64	0.64	0.63	0.65	0.65	0.67	0.69
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.21				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	0.48	0.47	0.47	0.47	0.48	0.47	0.49	0.49	0.52	0.54
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.26		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	70 mm	70 mm	70 mm	70 mm
Frame U-Value [W/m ² K]	0.97	0.97	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0236	0.0236	0.0235	0.0235
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102526
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Solarcontrol-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.13	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.14

Modeled Size [W×H]

47.24" × 59.06"

SHGC, Whole Window: 0.22

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	0.10	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	2.76"	2.76"	2.76"	2.76"
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]	0.0136	0.0136	0.0136	0.0136
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



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THERM Files Available: No

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



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Fixed Picture Window

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Fixed

Model: Tyrol Edge Fixed Picture Window

Operation Type: Fixed

IGU DETAILS

Glazing Name: Solarcontrol-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.72	0.71	0.71	0.71	0.70	0.71	0.72	0.72	0.76	0.79

Modeled Size [W × H] 1.20 m × 1.50 m

SHGC, Whole Window: 0.22

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	0.58	0.56	0.56	0.57	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	70 mm	70 mm	70 mm	70 mm
Frame U-Value [W/m ² K]	0.97	0.97	0.97	0.97
Glazing-to-Frame Psi Value [W/mK]	0.0237	0.0237	0.0236	0.0236
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102534
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Balanced-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.15
Modeled Size [W×H]	47.24" × 59.06"			SHGC, Whole Window: 0.27				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	0.10	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								0.39		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.33"	4.33"	4.33"	4.33"
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]	0.0146	0.0146	0.0146	0.0146
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102534
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Balanced-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.77	0.76	0.76	0.76	0.75	0.76	0.76	0.77	0.80	0.83
Modeled Size [W × H]	1.20 m × 1.50 m			SHGC, Whole Window: 0.27				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	0.58	0.56	0.56	0.57	0.56	0.56	0.57	0.58	0.63	0.66
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.39		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	110 mm	110 mm	110 mm	110 mm
Frame U-Value [W/m ² K]	0.99	0.99	0.99	0.99
Glazing-to-Frame Psi Value [W/mK]	0.0253	0.0253	0.0253	0.0253
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102537
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Balanced-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13
Modeled Size [W×H]	47.24" × 59.06"				SHGC, Whole Window: 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	0.09	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.10
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.37		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.33"	4.33"	4.33"	4.33"
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]	0.0147	0.0147	0.0147	0.0147
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102537
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Balanced-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.70	0.73	0.74
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 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	0.49	0.48	0.48	0.48	0.47	0.47	0.48	0.49	0.52	0.54
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.37		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	110 mm	110 mm	110 mm	110 mm
Frame U-Value [W/m ² K]	0.99	0.99	0.99	0.99
Glazing-to-Frame Psi Value [W/mK]	0.0255	0.0255	0.0255	0.0255
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102536
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: HighGain-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.15
Modeled Size [W×H]	47.24" × 59.06"		SHGC, Whole Window: 0.41				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	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.13
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.59		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.33"	4.33"	4.33"	4.33"
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]	0.0145	0.0145	0.0145	0.0145
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102536
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: HighGain-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.81	0.80	0.80	0.80	0.79	0.79	0.80	0.80	0.84	0.86
Modeled Size [W × H]	1.20 m × 1.50 m		SHGC, Whole Window: 0.41				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	0.64	0.62	0.62	0.62	0.61	0.62	0.62	0.63	0.68	0.71
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.59		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	110 mm	110 mm	110 mm	110 mm
Frame U-Value [W/m ² K]	0.99	0.99	0.99	0.99
Glazing-to-Frame Psi Value [W/mK]	0.0251	0.0251	0.0251	0.0251
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102535
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Solarcontrol-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.15
Modeled Size [W×H]	47.24" × 59.06"				SHGC, Whole Window: 0.19			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	0.10	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	4.33"	4.33"	4.33"	4.33"
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]	0.0146	0.0146	0.0146	0.0146
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102535
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Solarcontrol-6 TGT [41]

Glass Layers: Triple

Gas Fill: Argon

Spacer: Ködispace 4SG

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	0.77	0.76	0.76	0.76	0.75	0.76	0.76	0.77	0.81	0.83

Modeled Size [W × H] 1.20 m × 1.50 m

SHGC, Whole Window: 0.19

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	0.58	0.56	0.56	0.57	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	110 mm	110 mm	110 mm	110 mm
Frame U-Value [W/m ² K]	0.99	0.99	0.99	0.99
Glazing-to-Frame Psi Value [W/mK]	0.0253	0.0253	0.0253	0.0253
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102538
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Solarcontrol-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.13	0.13
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·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	0.09	0.09	0.09	0.10
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.26		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	4.33"	4.33"	4.33"	4.33"
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]	0.0147	0.0147	0.0147	0.0147
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				



Phius Product Number: W-102538
Date Last Certified: 07/30/2025
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 07/30/2027
Air Leakage Test Data Available: No



PRODUCT INFORMATION

Product Name: Alpen Tyrol Edge Tilt-Turn / Turn Only / Hopper

Manufacturer: Alpen High Performance Products

Primary Frame Material: Vinyl

Series: Tyrol Edge

Fixed or Operable: Operable

Model: Tyrol Edge Tilt-Turn / Turn Only / Hopper

Operation Type: Dual Action Tilt Turn

IGU DETAILS

Glazing Name: Solarcontrol-9 TGQ [41]

Glass Layers: Quad

Gas Fill: Krypton

Spacer: Ködispace 4SG

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	0.70	0.69	0.69	0.70	0.70	0.69	0.71	0.71	0.73	0.74
Modeled Size [W × H]	1.20 m × 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/m²K]

Climate Zone	0, 1, 2	3A	3B	3C	4A, 4B	4C, 5C	5A, 5B	6	7	8
U-COG Value	0.48	0.47	0.47	0.47	0.48	0.47	0.49	0.49	0.52	0.54
SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones								0.26		

Frame Parameters	Left Jamb	Right Jamb	Head	Sill
Frame Section	Left	Right	Top	Bottom
Frame Width	110 mm	110 mm	110 mm	110 mm
Frame U-Value [W/m ² K]	0.99	0.99	0.99	0.99
Glazing-to-Frame Psi Value [W/mK]	0.0255	0.0255	0.0255	0.0255
Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.)				