



Phius Product Number: W-102531
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 ³ [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 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 | 0.10 |
| Modeled Size [W×H] | 47.24" × 59.06" | | SHGC, Whole Window: 0.28 | | | | 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 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 | 0.07 |
| SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones | | | | | | | | 0.35 | | |

| Frame Parameters | <i>Left Jamb</i> | <i>Right Jamb</i> | <i>Head</i> | <i>Sill</i> |
|---|------------------|-------------------|-------------|---------------|
| Frame Section | Left | Right | Top | Bottom |
| Frame Width | 2.76" | 2.76" | 2.76" | 2.76" |
| Frame U-Value [Btu/hr·ft²·°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. <i>(See Phius Guidebook for more details.)</i> | | | | |



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| 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 |

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|---|--------------------------|------------------------------|
| Glazing Name: Balanced-9 TGQ ³ [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 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.56 | 0.57 | 0.58 |
| Modeled Size [W × H] | 1.20 m × 1.50 m | | SHGC, Whole Window: 0.28 | | | | 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 | 0.38 | 0.38 | 0.38 | 0.38 | 0.37 | 0.38 | 0.37 | 0.38 | 0.39 | 0.40 |
| SHGC-COG Center of Glass Solar Heat Gain Coefficient, All Climate Zones | | | | | | | | 0.35 | | |

| Frame Parameters | <i>Left Jamb</i> | | <i>Right Jamb</i> | | <i>Head</i> | | <i>Sill</i> | |
|---|------------------|--------|-------------------|--------|-------------|--------|-------------|--------|
| | Left | Right | Top | Bottom | Top | Bottom | Top | Bottom |
| Frame Width | 70 mm | 70 mm | 70 mm | 70 mm | 70 mm | 70 mm | 70 mm | 70 mm |
| Frame U-Value [W/m²K] | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 |
| Glazing-to-Frame Psi Value [W/mK] | 0.0237 | 0.0237 | 0.0237 | 0.0237 | 0.0237 | 0.0237 | 0.0237 | 0.0237 |
| Frame-to-Wall Psi Value is dependent on the on-site installation condition. <i>(See Phius Guidebook for more details.)</i> | | | | | | | | |