



**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·ft<sup>2</sup>·°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·ft<sup>2</sup>·°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 <sup>2</sup> ·°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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**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/m<sup>2</sup>K]**

| 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/m<sup>2</sup>K]

| 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 <sup>2</sup> 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.) |           |            |        |        |