



Phius Product Number: W-102656
Date Last Certified: 04/03/26
THERM Files Available: No

Phius Certification Path: Orange Path
Valid Through: 04/03/28
Air Leakage Test Data Available: No



| PRODUCT INFORMATION | | |
|--|---|------------------------------|
| Product Name: Alpen ZR-6 Low Profile Fixed | | |
| Manufacturer: Alpen High Performance Products | Primary Frame Material: Fiberglass | |
| Series: ZR-6 | Fixed or Operable: Fixed | |
| Model: ZR-6 Low Profile Fixed | Operation Type: Fixed | |
| IGU DETAILS | | |
| Glazing Name: Balanced-6 TGT [35mm oa] | | |
| Glass Layers: Triple | Gas Fill: Argon | Spacer: Ködispace 4SG |

| 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 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | |
| Modeled Size [W×H] | 47.24" × 59.06" | | | SHGC, Whole Window: 0.34 | | | | 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 | 0.12 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 |
| 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 | 1.54" | 1.54" | 1.54" | 1.54" |
| Frame U-Value [Btu/hr·ft ² ·°F] | 0.22 | 0.22 | 0.22 | 0.22 |
| Glazing-to-Frame Psi Value [Btu/hr·ft ² ·°F] | 0.0178 | 0.0178 | 0.0178 | 0.0178 |
| Frame-to-Wall Psi Value is dependent on the on-site installation condition. (See Phius Guidebook for more details.) | | | | |



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| Manufacturer: Alpen High Performance Products | Primary Frame Material: Fiberglass |
| Series: ZR-6 | Fixed or Operable: Fixed |
| Model: ZR-6 Low Profile Fixed | Operation Type: Fixed |

IGU DETAILS

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|---|------------------------|------------------------------|
| Glazing Name: Balanced-6 TGT [35mm oa] | | |
| 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/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 | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.79 | 0.79 | 0.79 | 0.81 |
| Modeled Size [W × H] | 1.20 m × 1.50 m | | | SHGC, Whole Window: 0.34 | | | 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 | 0.66 | 0.64 | 0.64 | 0.65 | 0.64 | 0.64 | 0.64 | 0.63 | 0.63 | 0.65 |
| 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 | 39 mm | 39 mm | 39 mm | 39 mm |
| Frame U-Value [W/m ² K] | 1.26 | 1.26 | 1.26 | 1.26 |
| Glazing-to-Frame Psi Value [W/mK] | 0.0309 | 0.0309 | 0.0309 | 0.0309 |
| Frame-to-Wall Psi Value is dependent on the on-site installation condition. <i>(See Phius Guidebook for more details.)</i> | | | | |