

61-29 6 FT DIAMANT (16 Argon 90) 6 FT DIAMANT [Swisspacer Ultimate Pro]

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Coating: COOL-LITE XTREME 61-29 II #2 / ECLAZ ONE II #1

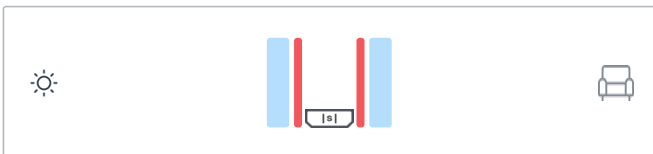
Computed by: Sergiy Diachenko

Computed on: 09/05/2025

Product catalog: USA

Norms: NFRC

Glazing type



Glazing 1

- DIAMANT (6mm) - Tempered
- COOL-LITE XTREME 61-29 II

Cavity 1

- Argon 90% 16 mm
- Swisspacer Ultimate Pro

Glazing 2

- ECLAZ ONE II
- DIAMANT (6mm) - Tempered



Swisspacer Ultimate Pro

Psi-values (Ψ_g) for double glazing 4-16-4 ($U_g = 1.1 \text{ W/m}^2\cdot\text{K}$)

For windows

| | |
|--------------------------|---------------|
| Metal with thermal break | 0.036 W/(m.K) |
| Plastic | 0.031 W/(m.K) |
| Wood | 0.031 W/(m.K) |
| Wood / Metal | 0.033 W/(m.K) |

For facade profiles

| | |
|---|---------------|
| Wood / Metal | 0.055 W/(m.K) |
| Metal with thermal break ($d_i = 100\text{mm}$) | 0.074 W/(m.K) |
| Metal with thermal break ($d_i = 200\text{mm}$) | 0.078 W/(m.K) |

Source: ift Rosenheim directive WA-08/3 and WA-22/2 ("Warm edge" working group) / Bundesverband Flachglas (German Flat Glass Association) window data sheets

Simulated performance datas

Luminous Factors

| | |
|---------------------------|-----|
| Light Transmittance (TL) | 58% |
| Outdoor Reflectance (RLe) | 12% |
| Indoor Reflectance (RLi) | 17% |

Energy Factors

| | |
|---------------------------|------|
| Transmittance (TE) | 21% |
| UV (Tuv) | N/A |
| Outdoor Reflectance (Ree) | 40% |
| Indoor Reflectance (Rei) | 50% |
| Absorptance A1 (AE1) | 37% |
| Absorptance A2 (AE2) | 2% |
| Tdw-ISO | 0.44 |

Solar Factors

| | |
|--------------------------|------|
| SHGC | 0.26 |
| Shading Coefficient (SC) | 0.29 |

Thermal Transmission

| | |
|--------------------------------|--------------------------------|
| Ug Summer | 0.2 Btu/(h.ft ² .F) |
| Ug Winter | 0.2 Btu/(h.ft ² .F) |
| Angle relative to the vertical | 0° |

Acoustics

EN 12758

Acoustic measurement values according to EN 12758 and from notified body

| | |
|-------------------|----------------|
| Rw (C;Ctr) | 33 (-1; -5) dB |
| Ra | 32 dB |
| Ra,tr | 28 dB |
| STC (ASTM E413) | N/A |
| OITC (ASTM E1332) | N/A |

Color Rendering

| | |
|-------------------|------|
| Transmission (Ra) | 91.8 |
| Reflection (Ra) | 86.3 |

Safety Class

| | |
|--------------------------|---------|
| Pendulum Body Resistance | EN12600 |
|--------------------------|---------|

Anti-Burglary

| | |
|--------------------|-------|
| Burglar Resistance | EN356 |
|--------------------|-------|

Manufacturing Sizes

| | |
|-------------------|----------------------|
| Nominal Thickness | 1.1 Inch |
| Weight | 6 lb/ft ² |

Sustainability

Carbon footprint

The value is calculated regarding the composition computed based on the standard EN 15804+A2 (2019)

| | |
|--|--------------------|
| Global Warming Potential (GWP) – A1-A3 | EN 15804+A2 (2019) |
| (kg, CO ₂ eq./m ²) European average | 56 |