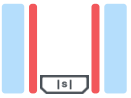
70/33 6 FT DIAMANT (16 Argon 90) 6 FT DIAMANT [Swisspacer Ultimate Pro]

Configuration: 6 FT DIAMANT (16 Argon 90) 6 FT DIAMANT [Swisspacer Ultimate Pro]
Coating: COOL-LITE XTREME 70-33 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 70-33 II

Cavity 1
- Argon 90% 16 mm
- Swisspacer Ultimate Pro

Glazing 2
- ECLAZ ONE II
- DIAMANT (6mm) - Tempered

Swisspacer Ultimate Pro
Psi-values (Ψg) for double glazing 4-16-4 (Ug = 1.1 W/m².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 (di = 100mm)	0.074 W/(m.K)
Metal with thermal break (di = 200mm)	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	**CIE015:2018**
Light Transmittance (TL)	67%
Outdoor Reflectance (RLe)	12%
Indoor Reflectance (RLi)	15%

Energy Factors	**NFRC**
Transmittance (TE)	25%
UV (Tuv)	N/A
Outdoor Reflectance (Ree)	46%
Indoor Reflectance (Rei)	48%
Absorptance A1 (AE1)	27%
Absorptance A2 (AE2)	2%
Tdw-ISO	0.46

Solar Factors	**NFRC**
SHGC	0.29
Shading Coefficient (SC)	0.33

Thermal Transmission	**ANSI/NFRC 100-2020**
Ug Summer	0.2 Btu/(h.ft².F)
Ug Winter	0.2 Btu/(h.ft².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	**CIE015:2018**
Transmission (Ra)	95.4
Reflection (Ra)	84.9

Safety Class	**EN12600**
Pendulum Body Resistance	1C2/1C2

Anti-Burglary	**EN356**
Burglar Resistance	NPD

Manufacturing Sizes	
Nominal Thickness	1.1 Inch
Weight	6 lb/ft²

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./m²) European average	56