

33.2 SI (18 Argon 90) 4 FT [Swisspacer Ultimate Pro]

Coating: PLANITHERM TOTAL+ FG #5

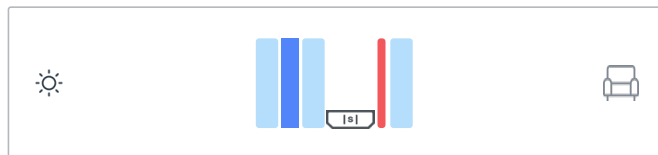
Computed by: JOANNE RAYNOR

Computed on: 27/08/2025

Product catalog: United Kingdom

Norms: EN410:2011

Glazing type



	Glazing 1
• PLANICLEAR (3mm) - Annealed • PVB SILENCE (0.76mm) • PLANICLEAR (3mm) - Annealed	
	Cavity 1
• Argon 90% 18 mm • Swisspacer Ultimate Pro	
	Glazing 2
• PLANITHERM TOTAL+ FG • PLANICLEAR (4mm) - 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)
PVC	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)	78%
Outdoor Reflectance (RLe)	13%
Indoor Reflectance (RLi)	13%
 Energy Factors	EN410:2011
Transmittance (TE)	58%
UV (Tuv)	N/A
Outdoor Reflectance (Ree)	17%
Indoor Reflectance (Rei)	21%
Absorptance A1 (AE1)	16%
Absorptance A2 (AE2)	8%
 Solar Factors	EN410:2011
Solar Factor (g)	0.66
Shading Coefficient (SC)	0.76
 Thermal Transmission	EN673:2011
Angle relative to the vertical	0°
Ug	1.2 W/(m2.K)
 Acoustics	EN 12758
<i>Acoustic simulated values</i>	
Rw (C;Ctr)	38 (-2; -6) dB
Ra	36 dB
Ra,tr	32 dB
STC (ASTM E413)	38
OITC (ASTM E1332)	30
 Color Rendering	CIE015:2018
Transmission (Ra)	98.7
Reflection (Ra)	92
 Safety Class	EN12600
Pendulum Body Resistance	1B1/1C3
 Anti-Burglary	EN356
Burglar Resistance	P1A/NPD
 Manufacturing Sizes	
Nominal Thickness	28.8 mm
Weight	26 kg/m²
 Sustainability	
Carbon footprint	
<i>The value is calculated regarding the composition computed based on the standard EN 15804+A2 (2019)</i>	
Global Warming Potential (GWP) – A1-A3	EN 15804+A2 (2019)
(kg, CO ₂ eq./m²) European average	50