

44.2 (18 Argon 90) 4 [Swisspacer Ultimate Pro]

Coating: PLANITHERM TOTAL+ FG #5

Computed by: Matthew Cooksey

Computed on: 18/12/2024

Product catalog: United Kingdom

Norms: EN410 (2011-04)

Glazing type



	Glazing 1 PLANICLEAR (4mm) - Annealed PVB STANDARD (0.76mm) PLANICLEAR (4mm) - Annealed
	Cavity 1 Argon 90% 18 mm Swisspacer Ultimate Pro
	Glazing 2 PLANITHERM TOTAL+ FG PLANICLEAR (4mm) - Annealed

	
Swisspacer Ultimate Pro Psi-values (Ψ_g) for double glazing	
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	CIE (15-2004)
	Light Transmittance (TL)	78%
	Outdoor Reflectance (RLe)	13%
	Indoor Reflectance (RLi)	13%
	Energy Factors	EN410 (2011-04)
	Transmittance (TE)	57%
	Outdoor Reflectance (Ree)	17%
	Indoor Reflectance (Rei)	21%
	Absorptance A1 (AE1)	19%
	Absorptance A2 (AE2)	8%
	Solar Factors	EN410 (2011-04)
	Solar Factor (g)	0.64
	Shading Coefficient (SC)	0.74
	Thermal Transmission	EN673-2011
	Ug	1.2 W/(m2.K)
	Angle relative to the vertical	0°
	Acoustics	EN 12758
	<i>Acoustic simulated values</i>	
	Rw (C;Ctr)	39 (-3; -7) dB
	Ra	36 dB
	Ra,tr	32 dB
	STC (ASTM E413)	39
	OITC (ASTM E1332)	29
	Color Rendering	CIE (15-2004)
	Transmission (Ra)	98.4
	Reflection (Ra)	91.6
	Safety Class	EN 12600
	Pendulum Body Resistance	1B1/NPD
	Anti-Burglary	EN 356
	Burglar Resistance	P2A/NPD
	Manufacturing Sizes	
	Nominal Thickness	30.8 mm
	Weight	31 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	53