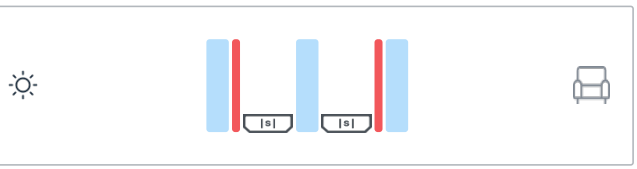
4 (18 Argon 90) 4 (18 Argon 90) 4 [Swisspacer Advance]

Coating: PLANITHERM ONE #2 / PLANITHERM ONE #5

Computed by: Hans-Peter Hole | Computed on: 18/05/2026 | Product catalog: Norway | Norms: EN410:2011

Glazing type



Glazing 1
- PLANICLEAR(4mm) - Annealed
- PLANITHERM ONE

Cavity1
- Argon 90% 18 mm
- Swisspacer Advance

Glazing 2
- PLANICLEAR(4mm) - Annealed

Cavity2
- Argon 90% 18 mm
- Swisspacer Advance

Glazing 3
- PLANITHERM ONE
- PLANICLEAR(4mm) - Annealed

swisspacer SAINT-GOBAIN

Swisspacer Advance
Psi-values (Ψg) for triple glazing 4-12-4-12-4 (Ug = 0.7 W/m².K)

For windows	
Metal with thermal break	0.042 W/(m.K)
PVC	0.037 W/(m.K)
Wood	0.037 W/(m.K)
Wood / Metal	0.040 W/(m.K)
For facade profiles	
Wood / Metal	0.061 W/(m.K)
Metal with thermal break (di = 100mm)	0.075 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)	56.7%
Outdoor Reflectance (RLe)	31.6%
Indoor Reflectance (RLi)	31.6%
Energy Factors	**EN410:2011**
Transmittance (TE)	31.4%
UV (Tuv)	N/A
Outdoor Reflectance (Ree)	47.6%
Indoor Reflectance (Rei)	47.6%
Absorptance A1 (AE1)	13.5%
Absorptance A2 (AE2)	3.2%
Absorptance A3 (AE3)	4.4%
Solar Factors	**EN410:2011**
Solar Factor (g)	0.372
Shading Coefficient (SC)	0.428
Thermal Transmission	**EN673:2011**
Angle relative to the vertical	0°
Ug	0.476 W/(m2.K)
Acoustics	**EN 12758**
Acoustic measurement values according to EN 12758 and from notified body	
Rw (C;Ctr)	32 (-1; -5) dB
Ra	31 dB
Ra,tr	27 dB
STC (ASTM E413)	0
OITC (ASTM E1332)	0
Color Rendering	**CIE015:2018**
Transmission (Ra)	96.1
Reflection (Ra)	97.2
Safety Class	**EN12600**
Pendulum Body Resistance	NPD
Anti-Burglary	**EN356**
Burglar Resistance	NPD
Manufacturing Sizes	
Nominal Thickness	48.0 mm
Weight	30.0 kg/m²
Sustainability	
Carbon footprint	
The value is estimated based on the composition and calculated according to the standard EN 15804+A2	
Global Warming Potential (GWP) – A1-A3	**EN 15804+A2**
(kg, CO_2 eq./m²) European average	51.0

Calumen® calculates the photometric characteristics and thermal transmission of glass using calculation algorithms which comply with the following standards: the European standards EN 410 and EN 673, the international standard ISO9050, the Japanese standard JIS R 3106/3107 and the Korean standard KS L 2514/2525. The functional output and calculation rules of Calumen® for standards EN 410 and EN 673 have been validated by TÜV Rheinland (report 89222746-01). The technical performances obtained according to these standards are provided for information only and are subject to amendment.
Only the values entered in the performance declaration available on the CE marking site of Saint-Gobain Glass are official.
The sound attenuation indices are measured under laboratory conditions according to the standards EN ISO 10140 and EN 12758. The calculated indices are provided for information only. The accuracy for Rw index lies within a range of +/-2dB. The glass thickness calculations comply with the 2012 version of the DTU39-P4 description. The USER is responsible for ensuring that the correct calculation hypotheses are entered and the DTU39 is applied appropriately for the project concerned.