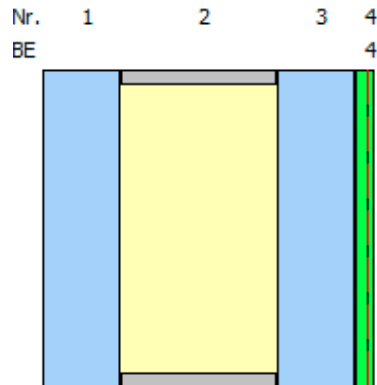# Calculation SommerGlobal

Project: 2020_10_29
Position: 05
Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	8,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	

* USERDEFINED   16,00

Nr. 1 2 3 4
BE 4

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = **0,30** (ultraviolet transmittance)

T_v = **0,82** (Light transmission)

T_e = **0,64** (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,80 (Shading Coefficient, g/0,87)

b-Faktor = 0,87 (VDI 2078, g/0,80)

q_i = **0,05** (secondary heat inside)

g = **0,70** (Total energy transmission factor)

EN 673   Installation angle = 90°   vertical

U_g = **2,11 W/m²K** (Heat transfer coefficient)
Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

g_{th} = 0,004 (Thermal radiation factor)

g_c = 0,050 (Convection factor)

g_v = 0,000 (Ventilation factor)
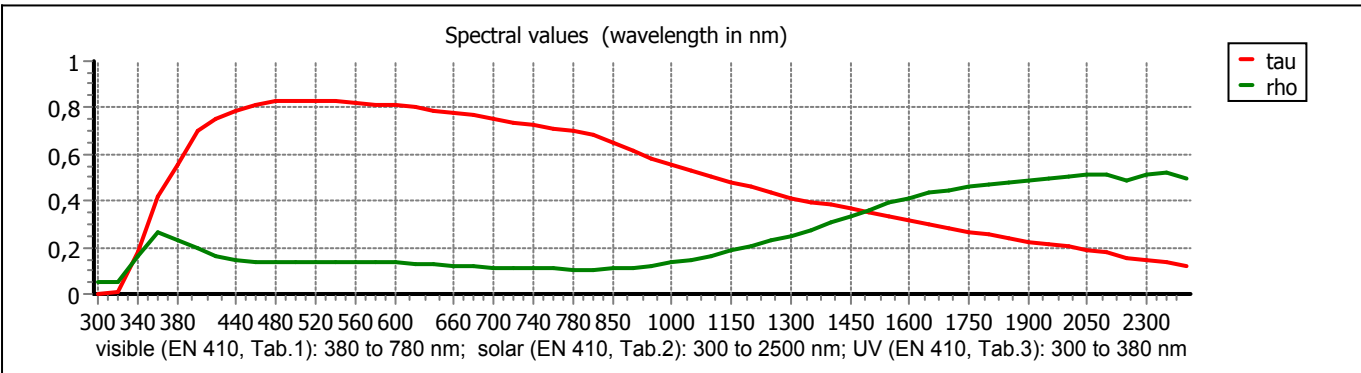
E_s = 300,00 W/m²   System height = 1,50 m
$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = **0,054** (secondary heat inside)

g_{tot} = **0,70** (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.
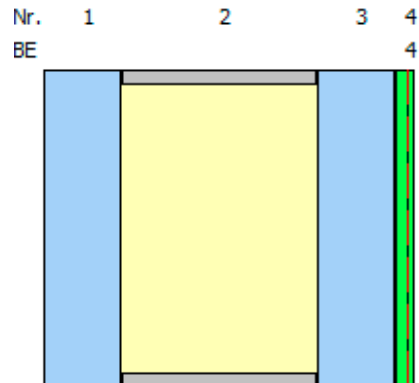
EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal

Project: 2020_10_29
Position: 05
Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	10,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	

* USERDEFINED

18,00

Nr. 1 2 3 4
BE 4

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = 0,30 (ultraviolet transmittance)

T_v = 0,82 (Light transmission)

T_e = 0,64 (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,81 (Shading Coefficient, g/0,87)

b-Faktor = 0,88 (VDI 2078, g/0,80)

q_i = 0,06 (secondary heat inside)

g = 0,70 (Total energy transmission factor)

EN 673 Installation angle = 90° vertical

U_g = **2,05 W/m²K** (Heat transfer coefficient)
Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

g_{th} = 0,004 (Thermal radiation factor)

g_c = 0,051 (Convection factor)

g_v = 0,000 (Ventilation factor)
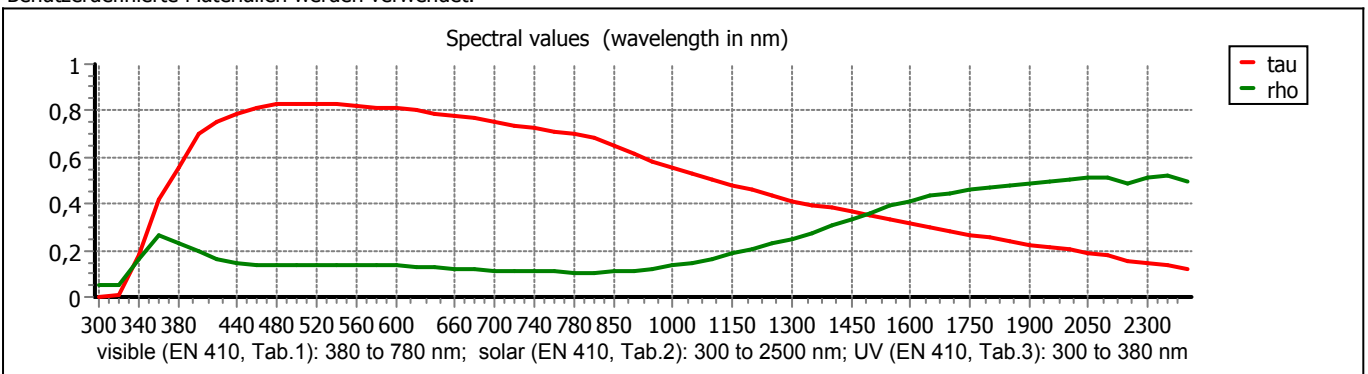
E_s = 300,00 W/m² System height = 1,50 m

$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = 0,056 (secondary heat inside)

g_{tot} = **0,70** (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.
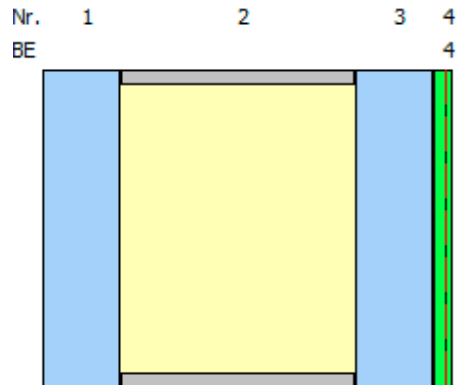
EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal

Project: 2020_10_29

Position: 05

Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	12,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	

* USERDEFINED   20,00

```
Nr.   1          2        3   4
BE                            4
```

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = 0,30 (ultraviolet transmittance)

T_v = 0,82 (Light transmission)

T_e = 0,64 (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,81 (Shading Coefficient, g/0,87)

b-Faktor = 0,88 (VDI 2078, g/0,80)

q_i = 0,06 (secondary heat inside)

g = 0,70 (Total energy transmission factor)

EN 673   Installation angle = 90°   vertical

U_g = **2,00 W/m²K** (Heat transfer coefficient)

Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

g_{th} = 0,005 (Thermal radiation factor)

g_c = 0,052 (Convection factor)

g_v = 0,000 (Ventilation factor)

E_s = 300,00 W/m²   System height = 1,50 m

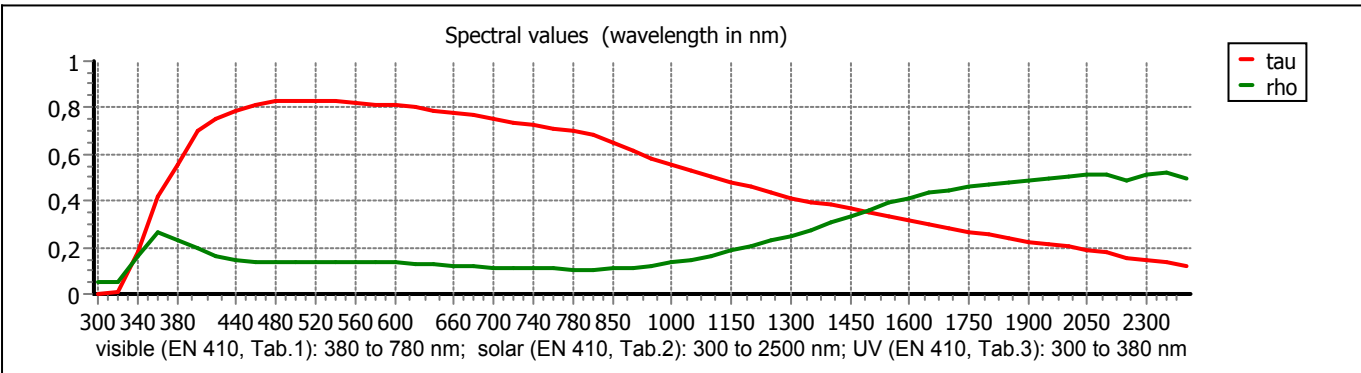$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = 0,057 (secondary heat inside)

g_{tot} = 0,70 (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.

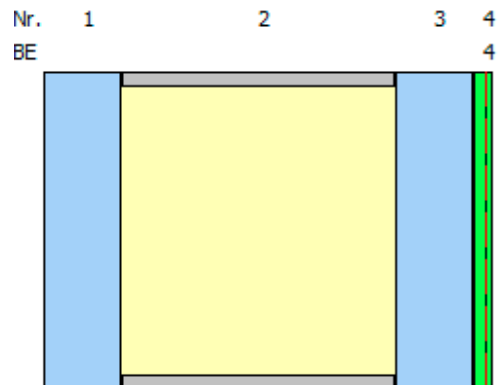EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal

Project: 2020_10_29
Position: 05
Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	14,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	
* USERDEFINED			22,00

Nr. 1 2 3 4
BE 4

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = **0,30** (ultraviolet transmittance)

T_v = **0,82** (Light transmission)

T_e = **0,64** (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,81 (Shading Coefficient, g/0,87)

b-Faktor = 0,88 (VDI 2078, g/0,80)

q_i = **0,06** (secondary heat inside)

g = **0,70** (Total energy transmission factor)

EN 673 Installation angle = 90° vertical

U_g = **1,97 W/m²K** (Heat transfer coefficient)
Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

E_s = 300,00 W/m² System height = 1,50 m

g_{th} = 0,005 (Thermal radiation factor)

g_c = 0,053 (Convection factor)

g_v = 0,000 (Ventilation factor)

$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = **0,057** (secondary heat inside)

g_{tot} = **0,70** (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.
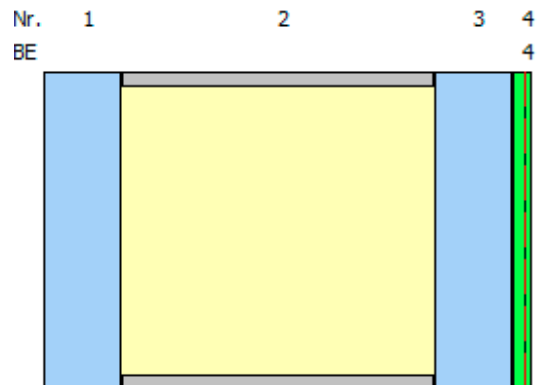
EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal

Project: 2020_10_29
Position: 05
Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	16,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	

* USERDEFINED		24,00

Nr. 1   2   3 4
BE   4

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = **0,30** (ultraviolet transmittance)

T_v = **0,82** (Light transmission)

T_e = **0,64** (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,81 (Shading Coefficient, g/0,87)

b-Faktor = 0,88 (VDI 2078, g/0,80)

q_i = **0,06** (secondary heat inside)

g = **0,70** (Total energy transmission factor)

EN 673 Installation angle = 90° vertical

U_g = **1,97 W/m²K** (Heat transfer coefficient)
Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

E_s = 300,00 W/m² System height = 1,50 m

g_{th} = 0,005 (Thermal radiation factor)

g_c = 0,053 (Convection factor)

g_v = 0,000 (Ventilation factor)

$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = **0,058** (secondary heat inside)

g_{tot} = **0,70** (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

— tau
— rho

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.
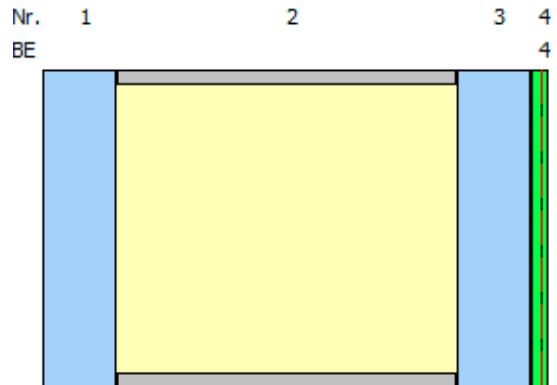
EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal

Project: 2020_10_29

Position: 05

Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	18,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	
* USERDEFINED			26,00

Nr. 1   2   3   4
BE   4

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = **0,30** (ultraviolet transmittance)

T_v = **0,82** (Light transmission)

T_e = **0,64** (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,81 (Shading Coefficient, g/0,87)

b-Faktor = 0,88 (VDI 2078, g/0,80)

q_i = **0,06** (secondary heat inside)

g = **0,70** (Total energy transmission factor)

EN 673   Installation angle = 90°   vertical

U_g = **1,97 W/m²K**   (Heat transfer coefficient)

Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

g_{th} = 0,005 (Thermal radiation factor)

g_c = 0,054 (Convection factor)

g_v = 0,000 (Ventilation factor)

E_s = 300,00 W/m²   System height = 1,50 m

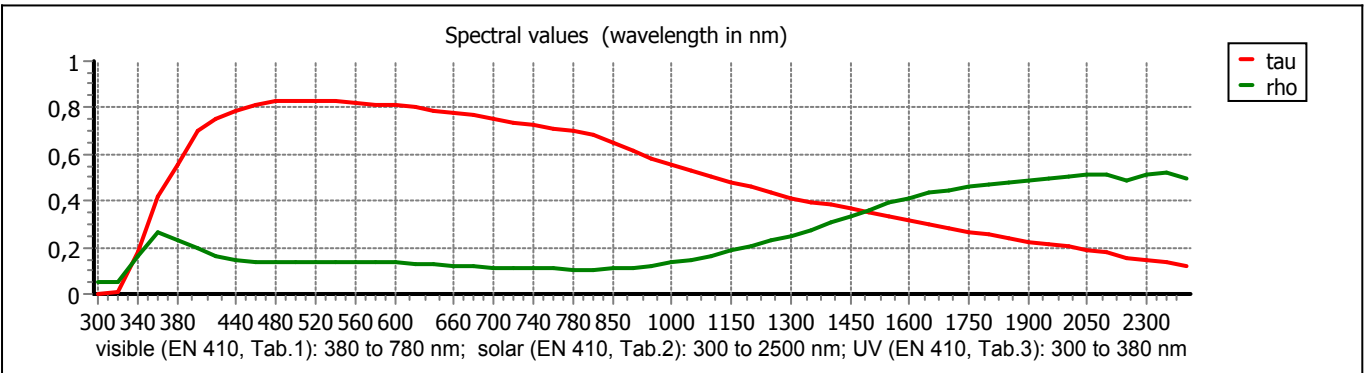$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = **0,058** (secondary heat inside)

g_{tot} = **0,70** (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.
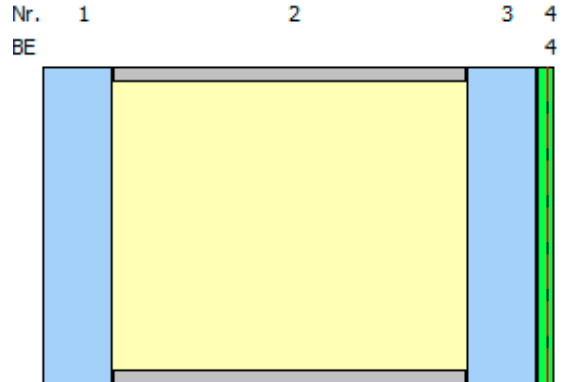
EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal

Project: 2020_10_29

Position: 05

Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	20,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	

* USERDEFINED   28,00

Nr. 1   2   3 4
BE   4

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = **0,30** (ultraviolet transmittance)

T_v = **0,82** (Light transmission)

T_e = **0,64** (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,81 (Shading Coefficient, g/0,87)

b-Faktor = 0,88 (VDI 2078, g/0,80)

q_i = **0,06** (secondary heat inside)

g = **0,70** (Total energy transmission factor)

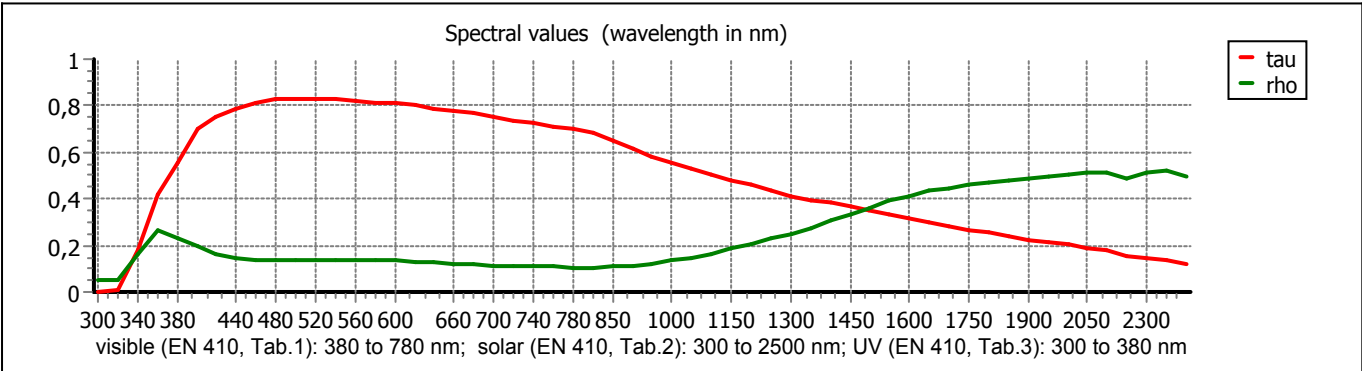## EN 673   Installation angle = 90°   vertical

U_g = **1,97 W/m²K**   (Heat transfer coefficient)

Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

E_s = 300,00 W/m²   System height = 1,50 m

g_{th} = 0,005 (Thermal radiation factor)

g_c = 0,053 (Convection factor)

g_v = 0,000 (Ventilation factor)

$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = **0,058** (secondary heat inside)

g_{tot} = **0,70** (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.
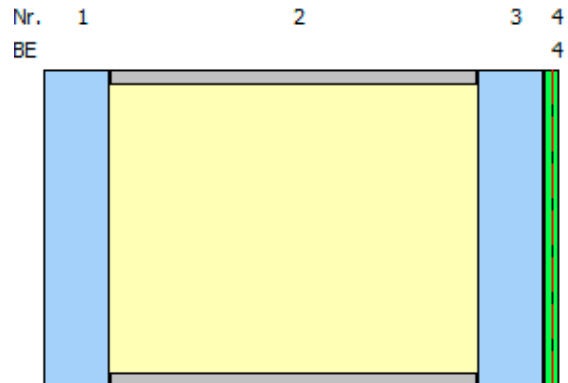
EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal

Project: 2020_10_29
Position: 05
Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	22,00
3		EUROFLOAT	4,00
4	4	Silverstar E 2019 *	

* USERDEFINED   30,00

Nr. 1   2   3   4
BE   4

Transmission, reflexion, absorption

ρ_v = 0,14 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,17 (direct radiation reflection factor outside)

ρ'_e = 0,19 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,11 (direct radiation absorption factor)

T_{UV} = 0,30 (ultraviolet transmittance)

T_v = 0,82 (Light transmission)

T_e = 0,64 (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,81 (Shading Coefficient, g/0,87)

b-Faktor = 0,88 (VDI 2078, g/0,80)

q_i = 0,06 (secondary heat inside)

g = 0,70 (Total energy transmission factor)

EN 673   Installation angle = 90°   vertical

U_g = 1,97 W/m²K   (Heat transfer coefficient)
Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

E_s = 300,00 W/m²   System height = 1,50 m

g_{th} = 0,005 (Thermal radiation factor)

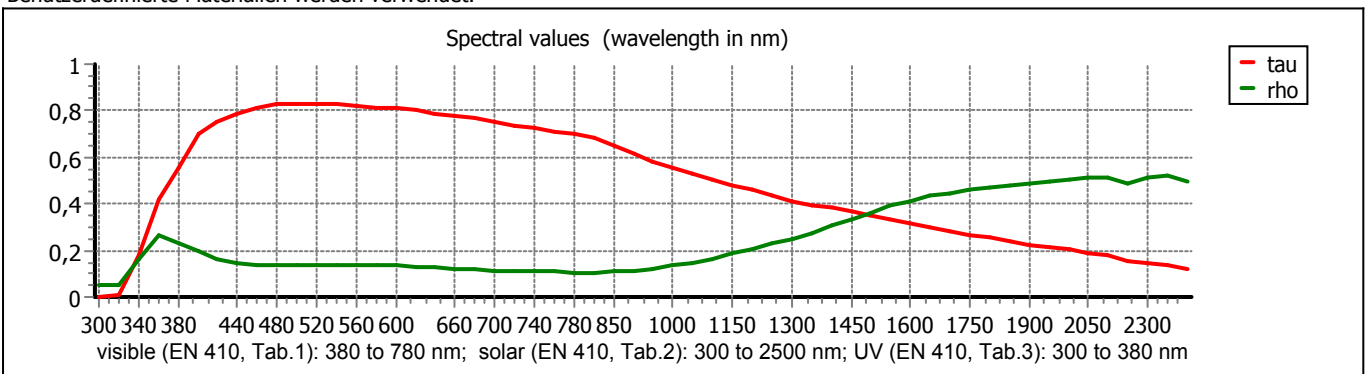g_c = 0,053 (Convection factor)

g_v = 0,000 (Ventilation factor)

$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = 0,057 (secondary heat inside)

g_{tot} = 0,70 (Total energy transmission factor)

Attention, the representation of the Ug value is not standard compliant. According to EN 1279-5 multi-pane insulating glass - Part 5: Conformity assessment, the Ug value according to EN 673 is to be calculated. According to 9.1 of this standard, the calculated U-value must be rounded to one decimal place. The Uw value of a window is according to EN ISO 10077-1 et al. calculated from the Ug value of the glazing.

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.

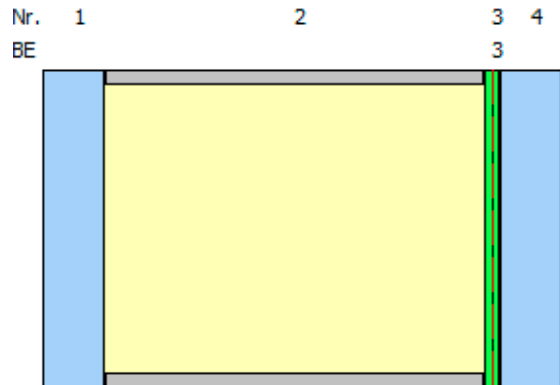EN 410, EN 673, EN ISO 52022-3, EN 12898:2019

Calculation SommerGlobal
3times

Project: 2020_10_29
Position: 05
Layer composition (outside to inside)

Number	BE	Description	mm
1		EUROFLOAT	4,00
2		90% Argon	24,00
3	3	Silverstar E 2019 *	
4		EUROFLOAT	4,00
* USERDEFINED			32,00

Transmission, reflexion, absorption

ρ_v = 0,13 (Light reflection factor outside)

ρ'_v = 0,13 (Light reflection factor inside)

ρ_e = 0,18 (direct radiation reflection factor outside)

ρ'_e = 0,18 (direct radiation reflection factor inside)

α_e 1 = 0,08; 3 = 0,09 (direct radiation absorption factor)

T_{UV} = 0,31 (ultraviolet transmittance)

T_v = 0,82 (Light transmission)

T_e = 0,64 (direct radiation transmission factor)

R_a = 98 (general color rendering index (CRI))

EN 410

SC = 0,83 (Shading Coefficient, g/0,87)

b-Faktor = 0,91 (VDI 2078, g/0,80)

q_i = 0,08 (secondary heat inside)

g = 0,73 (Total energy transmission factor)

EN 673 Installation angle = 90° vertical

U_g = 1,2 W/m²K (Heat transfer coefficient)
Corrected emissivity according to EN 12898:2019

EN ISO 52022-3 T_e = 5,00 °C T_i = 20,00 °C

g_{th} = 0,046 (Thermal radiation factor)

g_c = 0,034 (Convection factor)

g_v = 0,000 (Ventilation factor)
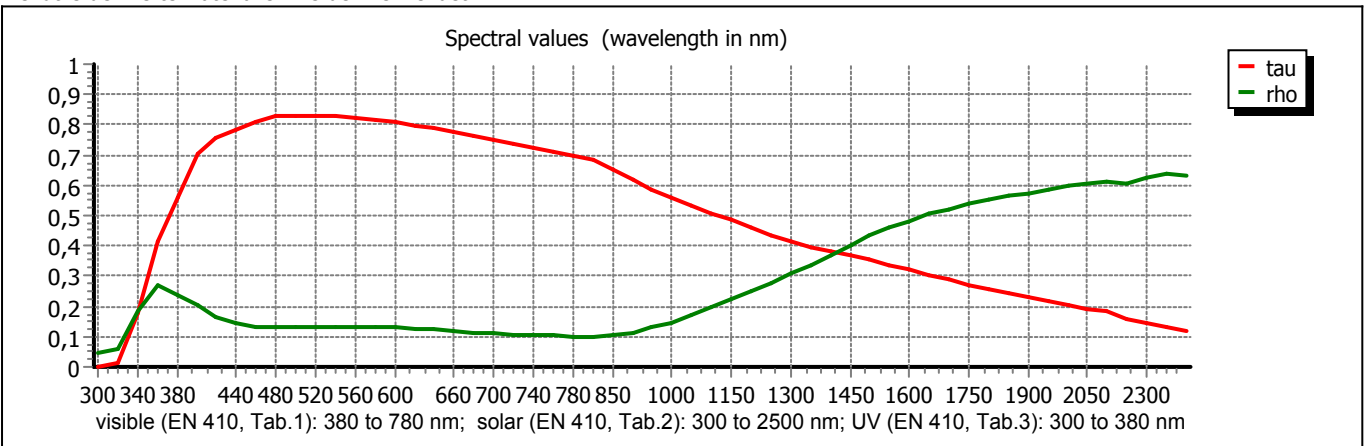
E_s = 300,00 W/m² System height = 1,50 m

$h_{c,e}$ = 18,00 W/m²K $h_{c,i}$ = 3,60 W/m²K

q_i = 0,080 (secondary heat inside)

g_{tot} = 0,72 (Total energy transmission factor)

Benutzerdefinierte Materialien werden verwendet.

Spectral values (wavelength in nm)

visible (EN 410, Tab.1): 380 to 780 nm; solar (EN 410, Tab.2): 300 to 2500 nm; UV (EN 410, Tab.3): 300 to 380 nm

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Fluctuations of light and radiation technical values for the chemical composition of glass and manufacturing process possible. Function values take into account the permitted tolerances according to the product standards. The calculation-result does not give information about the technical practicability of this construction. We point out that the calculations were created on the basis of the manufacturers' spectral data. The company Sommer Informatik GmbH assumes no liability for the integrity of the manufacturers' data. For the declaration of performance the manufacturers' data placed at the disposal has to be confirmed separately.

EN 410, EN 673, EN ISO 52022-3, EN 12898:2019