

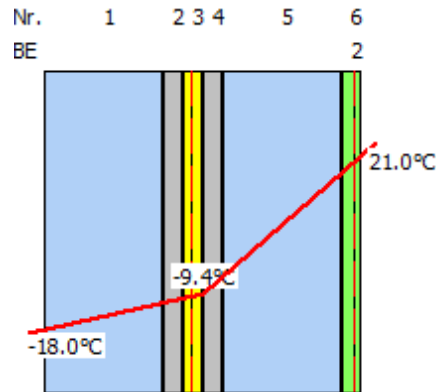
Calculation SommerGlobal

Project: LAX Metro Connector

Position: Version 7

Layer composition (outside to inside)

Number	BE	Denomination	mm
1		Float ExtraClear	6,00
2		SentryGlas® clear	0,89
3		AL 260/25	
4		SentryGlas® clear	0,89
5		Float ExtraClear	6,00
6	2	SG HD Light Blue 52 (εn=82%)	13,78



Rw (C;Ctr) dB = npd

Transmission, reflexion, absorption ASHRAE

- $\rho_v = 0,39$ (Light reflection factor outside)
- $\rho'_v = 0,16$ (Light reflection factor inside)
- $\rho_s = 0,34$ (direct radiation reflection factor outside)
- $\rho'_s = 0,16$ (direct radiation reflection factor inside)
- $\alpha_s \quad 1 = 0,54$ (direct radiation absorption factor)

$T_v = 0,14$ (Light transmission)

$T_s = 0,11$ (direct radiation transmission factor)

ASHRAE

SC = 0,32 (Shading Coefficient, g/0,87)

SHGC = 0,28 (Total energy transmission factor)

Installation angle = 90° vertikal

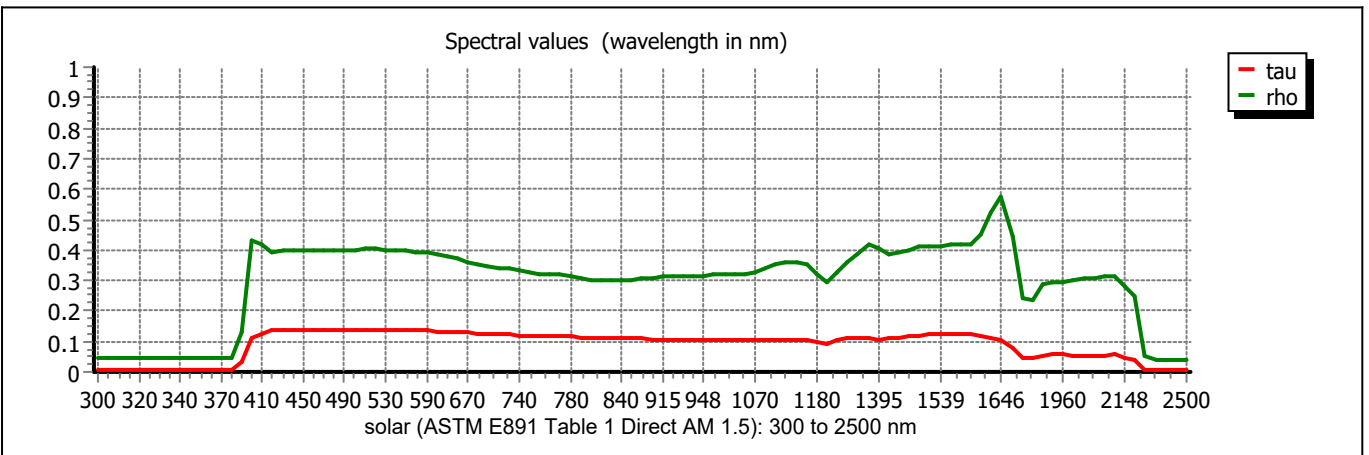
$U_g = 5,0 \text{ W/m}^2\text{K} \quad 0,89 \text{ Btu/h ft}^2 \text{ }^\circ\text{F}$ (Winter)

System = 1,50 m

$U_g = 4,6 \text{ W/m}^2\text{K} \quad 0,81 \text{ Btu/h ft}^2 \text{ }^\circ\text{F}$ (Summer)

Boundary condition

	T_e (°C)	T_i (°C)	E_s (W/m ²)	$h_{c,e}$ (W/m ² K)	$h_{c,i}$ (W/m ² K)
ASHRAE Sommer (SHGC)	32,00	24,00	783,00	15,00	2,79
ASHRAE Winter (Ug)	-18,0	21,00	0,00	26,00	3,05
ASHRAE Winter (Temperaturen)	-18,0	21,00	0,00	26,00	3,05



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.

ISO 15099, NFRC 100, NRFC 101, ASTM E891 Table 1 Direct AM 1.5

ift-certified It. validation report no. 410 42167 (status as of 11/2009)

Registered for: Sefar AG - Sefar AG

SommerGlobal 7.1104

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