

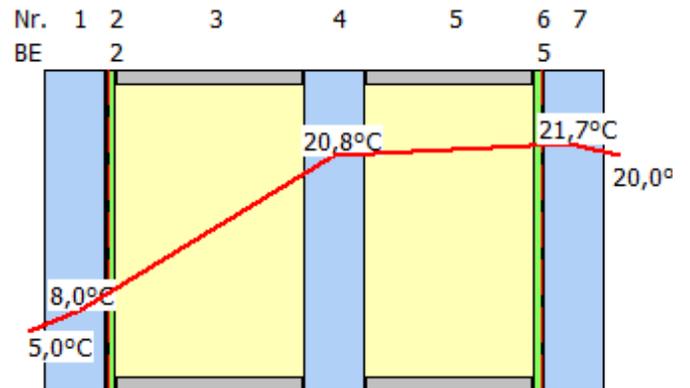
Calculation SommerGlobal 3-fach

Project: ThermaDura

Position: 01

Layer assembly (external to internal)

No.	CL	Name	mm
1		Float ExtraClear	6,00
2	2	ClimaGuard Premium2 (εn=3%)	
3		90% Argon	18,00
4		Float ExtraClear	6,00
5		90% Argon	16,00
6	5	ClimaGuard Premium2 (εn=3%)	
7		Float ExtraClear	6,00
			52,00



Rw (C;Ctr) dB = npd

Transmittance, reflectance, absorption

$\rho_v = 0,1564$ (external light reflectance)

$\rho'_v = 0,1564$ (internal light reflectance)

$\rho_e = 0,3040$ (external solar direct reflectance)

$\rho'_e = 0,3040$ (internal solar direct reflectance)

α_e 1 = 0,1528; 3 = 0,0525; 5 = 0,0503 (solar direct absorptance)

EN 410

SC = 0,5938 (Shading Coefficient, g/0,87)

b-Factor = 0,6457 (VDI 2078, g/0,80)

EN 673 Installation angle = 90° vertical

EN 13363-2 $T_e = 5,00$ °C $T_i = 20,00$ °C $E_s = 300,0$ W/m² Height of installation = 1,50 m

$g_{th} = 0,0433$ (thermal radiation factor)

$h_{c,e} = 18$ W/m²K $h_{c,i} = 3,6$ W/m²K

$g_c = 0,0325$ (convection factor)

$q_i = 0,0758$ (secondary internal heat transfer factor)

$g_v = 0,0000$ (ventilation factor)

$g = 0,5162$ (total solar energy transmittance (solar factor))

$T_{UV} = 0,2028$ (ultraviolet transmittance)

$T_v = 0,7311$ (light transmittance)

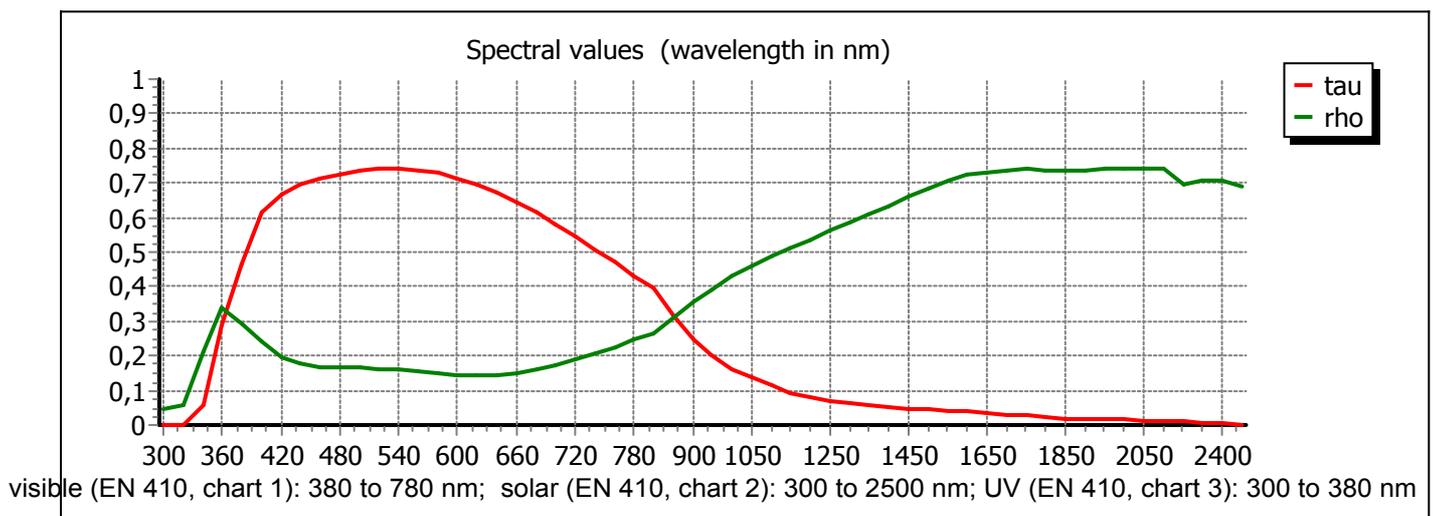
$T_e = 0,4404$ (solar direct transmittance)

$R_a = 96,90$ (general colour rendering index)

$q_i = 0,0762$ (secondary internal heat transfer factor)

$g = 0,5166$ (total solar energy transmittance (solar factor))

$U_g = 0,5502$ W/m²K (heat flow coefficient)



Variations of the light and radiation characteristics are possible caused by the chemical composition of glass and the production process. The specified values consider accredited tolerances of the finished product, the basic glass and the coating in accordance to the respective product standards. The result is no information about the technical feasibility.

EN 410. EN 673. EN 13363-2