

calculation in accordance to EN 410

date : 13.09.2012
database version : 08.12.2011 / K
version : 3.0

Glazing from outside to inside

24.76 mm

pane1	substrate	Guardian LamiGlass ExtraClear 4(0.76)4, 8.76 mm
spacer/gas1		12 mm / air 10%, argon 90%
pane2	coating on pos.3	Guardian ClimaGuard Premium
	substrate	Guardian Float Glass ExtraClear, 4.00 mm

Results

UV :

transmittance [%] :

$$\tau_{UV} = 1,1$$

light :

transmittance for standard illuminant D65 [%] :

$$\tau_V = 79,2$$

reflectance for standard illuminant D65 [%] (*) :

$$\rho_V = 12,0$$

reflectance for standard illuminant D65 [%] (**):

$$\rho_V = 12,3$$

general colour rendering index [%] :

$$R_a = 96,7$$

energy :

solar direct transmittance [%] :

$$\tau_e = 50,0$$

solar direct reflectance [%] (*) :

$$\rho_e = 22,0$$

solar direct reflectance [%] (**):

$$\rho_e = 27,6$$

solar direct absorption [%] (*) :

$$a = 28,0$$

secondary internal heat transfer factor [%] (*) :

$$q_i = 7,4$$

total solar energy transmittance (solar factor) [%] (*) :

$$g = 57,4$$

shading coefficient (=g/0,87) (*) :

$$sc = 0,66$$

thermal conductance (U-value) [W/m²K] (EN 673):

$$U_g = 1,3$$

slope [°] : $\alpha = 90,0$

(*) incident radiation from the outside

(**) incident radiation from the inside

The calculated values are for orientation only and do not offer any guarantee regarding the fabrication of the un- intended end- product.

Glass configurations do not amount to a guarantee of product availability.