

calculation in accordance to EN 410

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Glazing from outside to inside

38.38 mm

pane1	substrate	Guardian LamiGlass ExtraClear 4(0.38)4, 8.38 mm
spacer/gas1		24 mm / air 10%, argon 90%
pane2	coating on pos.3	Guardian ClimaGuard Premium
	substrate	Guardian Float Glass ExtraClear, 6.00 mm (EN 410)

Results

UV :

transmittance [%] :

$$\tau_{UV} = 3,5$$

light :

transmittance for standard illuminant D65 [%] :

$$\tau_V = 78,6$$

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

$$\rho_V = 12,0$$

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

$$\rho_V = 12,2$$

general colour rendering index [%] :

$$R_a = 96,3$$

energy :

solar direct transmittance [%] :

$$\tau_e = 49,6$$

solar direct reflectance [%] (*) :

$$\rho_e = 22,9$$

solar direct reflectance [%] (**):

$$\rho_e = 25,9$$

solar direct absorption [%] (*) :

$$a = 27,5$$

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

$$q_i = 8,3$$

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

$$g = 57,9$$

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

$$sc = 0,67$$

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

$$U_g = 1,2$$

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.