

calculation in accordance to EN 410

038

Glazing from outside to inside

40.00 mm

pane1	substrate	Guardian Float Glass ExtraClear, 4.00 mm
	coating on pos.2	Guardian ClimaGuard Premium
spacer/gas1		14 mm / air 10%, argon 90%
pane2	substrate	Guardian Float Glass ExtraClear, 4.00 mm
spacer/gas2		14 mm / air 10%, argon 90%
pane3	coating on pos.5	Guardian ClimaGuard Premium
	substrate	Guardian Float Glass ExtraClear, 4.00 mm

Results

UV :

transmittance [%] :

$$\tau_{UV} = 20,0$$

light :

transmittance for standard illuminant D65 [%] :

$$\tau_V = 70,9$$

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

$$\rho_V = 15,3$$

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

$$\rho_V = 15,3$$

general colour rendering index [%] :

$$R_a = 95,7$$

energy :

solar direct transmittance [%] :

$$\tau_e = 41,8$$

solar direct reflectance [%] (*):

$$\rho_e = 32,4$$

solar direct reflectance [%] (**):

$$\rho_e = 32,4$$

solar direct absorption [%] (*):

$$a = 25,8$$

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

$$q_i = 7,5$$

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

$$g = 49,4$$

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

$$sc = 0,57$$

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

$$U_g = 0,6$$

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.