

calculation in accordance to EN 410

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057

Glazing from outside to inside

46.00 mm

pane1	substrate	Guardian Float Glass ExtraClear, 6.00 mm
	coating on pos.2	Guardian SunGuard Top Selective 60/28
spacer/gas1		16 mm / air 10%, argon 90%
pane2	substrate	Guardian Float Glass ExtraClear, 4.00 mm
spacer/gas2		16 mm / air 10%, argon 90%
pane3	coating on pos.5	Guardian ClimaGuard Premium
	substrate	Guardian Float Glass ExtraClear, 4.00 mm

Results

UV :

transmittance [%] :

$$\tau_{UV} = 3,7$$

light :

transmittance for standard illuminant D65 [%] :

$$\tau_V = 53,2$$

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

$$\rho_V = 14,0$$

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

$$\rho_V = 17,2$$

general colour rendering index [%] :

$$R_a = 91,6$$

energy :

solar direct transmittance [%] :

$$\tau_e = 22,5$$

solar direct reflectance [%] (*):

$$\rho_e = 41,0$$

solar direct reflectance [%] (**):

$$\rho_e = 39,3$$

solar direct absorption [%] (*):

$$a = 36,5$$

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

$$q_i = 3,3$$

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

$$g = 25,9$$

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

$$sc = 0,30$$

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.