

calculation in accordance to EN 410

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

Glazing from outside to inside

38.00 mm

pane1	substrate	Guardian Float Glass ExtraClear, 4.00 mm
	coating on pos.2	Guardian ClimaGuard 1.0
spacer/gas1		13 mm / air 10%, argon 90%
pane2	substrate	Guardian Float Glass ExtraClear, 4.00 mm
spacer/gas2		13 mm / air 10%, argon 90%
pane3	coating on pos.5	Guardian ClimaGuard 1.0
	substrate	Guardian Float Glass ExtraClear, 4.00 mm

Results

UV :

transmittance [%] : $\tau_{UV} = 12,3$

light :

transmittance for standard illuminant D65 [%] : $\tau_V = 55,2$

reflectance for standard illuminant D65 [%] (*): $\rho_V = 29,8$

reflectance for standard illuminant D65 [%] (**): $\rho_V = 29,8$

general colour rendering index [%] : $R_a = 95,8$

energy :

solar direct transmittance [%] : $\tau_e = 30,5$

solar direct reflectance [%] (*): $\rho_e = 46,4$

solar direct reflectance [%] (**): $\rho_e = 46,4$

solar direct absorption [%] (*): $a = 23,1$

secondary internal heat transfer factor [%] (*): $q_i = 6,8$

total solar energy transmittance (solar factor) [%] (*): $g = 37,3$

shading coefficient (=g/0,87) (*): $sc = 0,43$

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.