

calculation in accordance to EN 410

date : 19.02.2012
database version : 10.03.2011 / K
version : 3.0

047

Glazing from outside to inside 54.00 mm

pane1	substrate	Guardian Float Glass ExtraClear, 6.00 mm (EN 410)
	coating on pos.2	Guardian ClimaGuard Premium
spacer/gas1		18 mm / air 10%, argon 90%
pane2	substrate	Guardian Float Glass ExtraClear, 6.00 mm
spacer/gas2		18 mm / air 10%, argon 90%
pane3	coating on pos.5	Guardian ClimaGuard Premium
	substrate	Guardian Float Glass ExtraClear, 6.00 mm (EN 410)

Results

UV :		
transmittance [%] :		$\tau_{UV} = 18,8$
light :		
transmittance for standard illuminant D65 [%] :		$\tau_V = 69,7$
reflectance for standard illuminant D65 [%] (*):		$\rho_V = 15,1$
reflectance for standard illuminant D65 [%] (**):		$\rho_V = 15,1$
general colour rendering index [%] :		$R_a = 94,5$
energy :		
solar direct transmittance [%] :		$\tau_e = 39,8$
solar direct reflectance [%] (*):		$\rho_e = 30,0$
solar direct reflectance [%] (**):		$\rho_e = 30,0$
solar direct absorption [%] (*):		$a = 30,2$
secondary internal heat transfer factor [%] (*):		$q_i = 8,5$
total solar energy transmittance (solar factor) [%] (*):		$g = 48,3$
shading coefficient (=g/0,87) (*):		$sc = 0,56$
thermal conductance (U-value) [W/m ² K] (EN 673):		$U_g = 0,5$
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.