

calculation in accordance to EN 410

date : 17.02.2012  
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version : 3.0

061

## Glazing from outside to inside 46.00 mm

<b>pane1</b>	substrate	Guardian Float Glass ExtraClear, 6.00 mm
	coating on pos.2	Guardian SunGuard Top Selective 60/28
<b>spacer/gas1</b>		16 mm / air 10%, argon 90%
<b>pane2</b>	substrate	Guardian Float Glass ExtraClear, 4.00 mm
<b>spacer/gas2</b>		16 mm / air 10%, argon 90%
<b>pane3</b>	coating on pos.5	Guardian ClimaGuard 1.0
	substrate	Guardian Float Glass ExtraClear, 4.00 mm

## Results

<b>UV :</b>		
transmittance [%] :		$\tau_{UV} = 3,0$
<b>light :</b>		
transmittance for standard illuminant D65 [%] :		$\tau_V = 46,9$
reflectance for standard illuminant D65 [%] (*):		$\rho_V = 17,5$
reflectance for standard illuminant D65 [%] (**):		$\rho_V = 26,3$
general colour rendering index [%] :		$R_a = 91,4$
<b>energy :</b>		
solar direct transmittance [%] :		$\tau_e = 19,7$
solar direct reflectance [%] (*):		$\rho_e = 42,4$
solar direct reflectance [%] (**):		$\rho_e = 47,9$
solar direct absorption [%] (*):		$a = 37,9$
secondary internal heat transfer factor [%] (*):		$q_i = 3,8$
total solar energy transmittance (solar factor) [%] (*):		$g = 23,5$
shading coefficient (=g/0,87) (*):		$sc = 0,27$
thermal conductance (U-value) [W/m <sup>2</sup> 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.**