

calculation in accordance to EN 410

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## Glazing from outside to inside 48.00 mm

<b>pane1</b>	substrate	Guardian Float Glass ExtraClear, 4.00 mm
	coating on pos.2	Guardian ClimaGuard Premium
<b>spacer/gas1</b>		18 mm / air 100%
<b>pane2</b>	substrate	Guardian Float Glass ExtraClear, 4.00 mm
<b>spacer/gas2</b>		18 mm / air 100%
<b>pane3</b>	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) EN 410 [%] (\*):  $g = 49,4$ 

 total solar energy transmittance (solar factor) DIN 67507 [%] (\*):  $g = 46,3$ 

 shading coefficient (=g\_DIN/0,87) (\*):  $sc = 0,53$ 

 thermal conductance (U-value) [W/m<sup>2</sup>K] (EN 673):  $U_g = 0,7$   
 slope [°] :  $\alpha=90,0$ 

(\*) incident radiation from the outside

(\*\*) incident radiation from the inside