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calculation in accordance to EN 410

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Glazing from outside to inside 44.00 mm

pane1	substrate	Guardian Float Glass ExtraClear, 4.00 mm
	coating on pos.2	Guardian ClimaGuard Premium
spacer/gas1		16 mm / air 10%, argon 90%
pane2	substrate	Guardian Float Glass Clear, 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 [%] : $\tau_{UV} = 19.5$

light :

 transmittance for standard illuminant D65 [%] : $\tau_V = 70.1$

 reflectance for standard illuminant D65 [%] (*) : $\rho_V = 15.0$

 reflectance for standard illuminant D65 [%] (**): $\rho_V = 15.0$

 general colour rendering index [%] : $R_a = 95.3$

energy :

 solar direct transmittance [%] : $\tau_e = 40.9$

 solar direct reflectance [%] (*): $\rho_e = 31.9$

 solar direct reflectance [%] (**): $\rho_e = 31.9$

 solar direct absorption [%] (*): $a = 27.2$

 secondary internal heat transfer factor [%] (*): $q_i = 8.2$

 total solar energy transmittance (solar factor) EN 410 [%] (*): $g = 49.1$

 total solar energy transmittance (solar factor) DIN 67507 [%] (*): $g = 46.0$

 shading coefficient (=g_DIN/0,87) (*): $sc = 0.53$

 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.