

calculation in accordance to EN 410

GLASS 5-16AR-4 SOLAR

Glazing from outside to inside 25.00 mm

pane1	substrate	Guardian Float Glass ExtraClear, 5.00 mm (EN 410)
	coating on pos.2	Guardian ClimaGuard Solar
spacer/gas1		16 mm / air 10%, argon 90%
pane2	substrate	Guardian Float Glass ExtraClear, 4.00 mm

Results

UV :

transmittance [%] : $\tau_{UV} = 25,3$

light :

transmittance for standard illuminant D65 [%] : $\tau_V = 66,7$

reflectance for standard illuminant D65 [%] (*): $\rho_V = 26,4$

reflectance for standard illuminant D65 [%] (**): $\rho_V = 24,1$

general colour rendering index [%] : $R_a = 95,9$

energy :

solar direct transmittance [%] : $\tau_e = 40,2$

solar direct reflectance [%] (*): $\rho_e = 42,1$

solar direct reflectance [%] (**): $\rho_e = 42,8$

solar direct absorption [%] (*): $a = 17,7$

secondary internal heat transfer factor [%] (*): $q_i = 2,0$

total solar energy transmittance (solar factor) [%] (*): $g = 42,2$

shading coefficient (=g/0,87) (*): $sc = 0,48$

thermal conductance (U-value) [W/m²K] (EN 673): $U_g = 1,0$
 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.