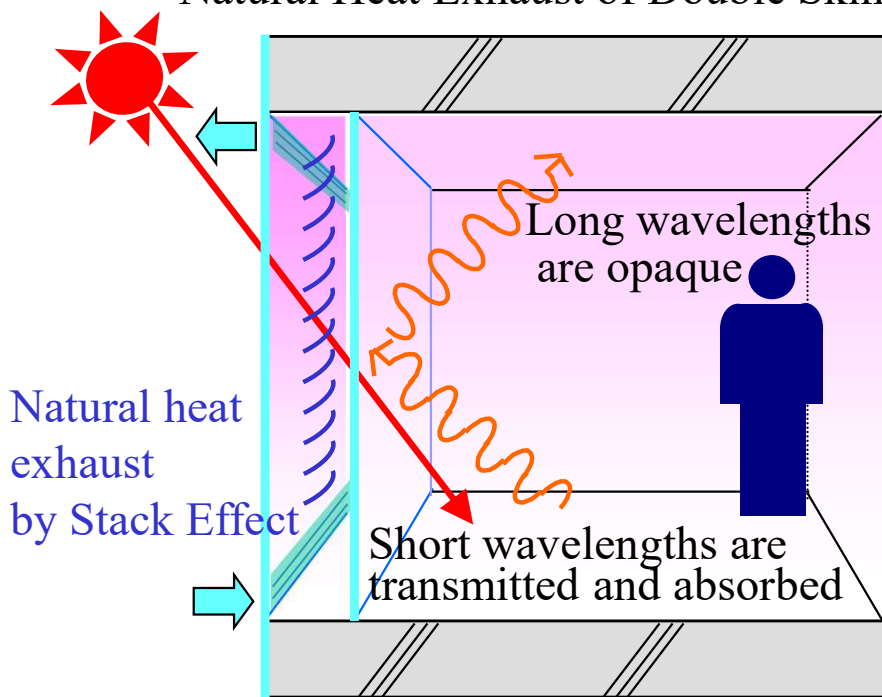
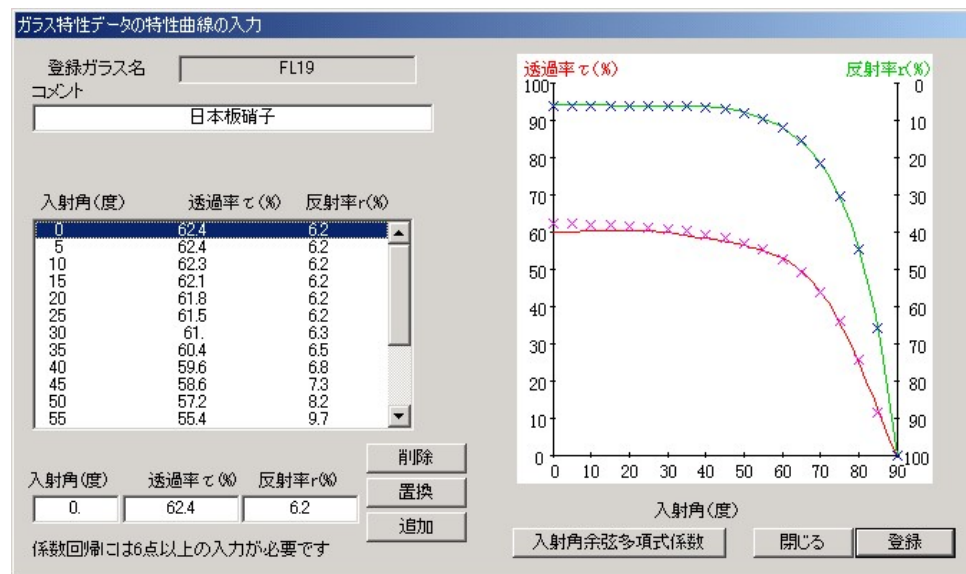


# Green House Effect , Transmittance and Reflectance Model of Glazing

Green House Effect and Natural Heat Exhaust of Double Skin



Transmittance and reflectance of glass depending on the incidence angle  $\theta$



Transmittance: $\tau$  , Reflectance: $r$ , and Absorptance: $a$

are depending on the incidence angle: $\theta$ , Regression coefficients of the fifth-order power series of the cosine of  $COS(\theta)$ , Saved in a library and used.

$$\tau(\theta) = \sum_{j=0}^5 t_j^{j-1} \cdot \cos^j(\theta), \rho(\theta) = \sum_{j=0}^5 r_j^{j-1} \cdot \cos^j(\theta)$$

$$a(\theta) = 1 - \tau(\theta) - \rho(\theta)$$

Blinds are depending on the profile angle

