



Explanation of Performance Terms

Visible Light Transmittance (T_v, %)

- Is the percentage of incident light in the wavelength range of 380 nm to 780 nm that is transmitted by the glass.

Ultraviolet (UV) Transmittance (T_{uv}, %)

- Is the percentage of the incident solar radiation transmitted by the glazing in the 300 nm to 380 nm range.

Solar Energy Direct Transmittance (T_e, %)

- Is the percentage of incident solar energy in the wavelength range of 300 nm to 2500 nm that is directly transmitted by the glass.

Visible Light Reflectance Outdoors/Indoors (R_{v out/in}, %)

- Is the percentage of incident visible light directly reflected by the glass.

Solar Direct Reflectance Outdoors/Indoors (R_{e out/in}, %)

- Is the percentage of incident solar energy directly reflected by the glass.

Solar Energy Absorptance (A_e, %)

- Is the percentage of the sun's energy that is absorbed by the glass.

U-Value

- Is the glazing parameter that characterizes the heat transfer through the central part of the glazing, i.e. without edge effects, and expresses the steady-state density of heat transfer rate per temperature difference between the environmental temperatures on each side. US Standard units are Btu/h·ft²·°F and SI / Metric units W/m²·K.

Relative Heat Gain (RHG)

- Is the total net heat gain to the indoors due to both the air-to-air thermal conductance and the solar heat gain. US Standard units are Btu/hr.ft² and SI / Metric units are W/m².

Shading Coefficient (sc)

- Is Solar Factor divided by 0.87. It is a measure of the solar heat gain referenced to 3 mm clear glass which has the designated value of 1.00.

Solar Heat Gain Coefficient (SHGC)

- Is the sum of the solar direct transmittance and the secondary heat transfer factor of the glazing towards the inside, the latter resulting from heat transfer by convection and long wave IR-radiation of that part of the incident solar radiation which has been absorbed by the glazing.

Light-to-Solar Gain (LSG)

- Is the ratio of visible light gain to solar gain. $LSG = (\text{Visible Transmittance})/(\text{SHGC})$

Color Rendering Index in transmission, D65 (R_a)

- Is the change in color of an object as a result of the light being transmitted by the glass.

Weighted Sound Reduction Index (R_w)

- Is a single-number quantity which characterizes the airborne sound insulation of a material or building element over a range of frequencies.

Sound Transmission Class (STC)

- Is a single-number quantity which characterizes the airborne sound insulation of a material or building element over a range of frequencies.