

LOW-E GLASS



LOW-E GLASS PRODUCTION
COATING EQUIPMENT

Energy-Efficient/Low-E Glass

Low-E glass is widely used for energy efficiency consideration. According to the structure of Low-E coating, Low-E glass may be classified as single silver Low-E glass, double silver Low-E glass, Triple Silver Low-E glass and so on.



HOTEL PROJECT



LOW-E IGU PROJECT



PRODUCTION LINE

Single Silver Low-E Glass

Within the coating structure of single silver Low-E glass, there is one silver layer. Single Silver Low-E glass has been widely used in various buildings at different locations worldwide.

Features:

- 1 Visible light transmittance— adequate indoor natural daylighting.
- 2 Solar energy transmittance — a wide range of shading coefficient SC available, for different geological locations.
- 3 High far infrared reflectance — low U-value, reduced thermal transfer due to temperature difference.

Double Silver Low-E Glass

Within the coating structure of double silver Low-E glass, there are two silver layers. While maintaining the same visible light transmittance, it has lower shading coefficient, SC, than single silver Low-E glass. In other words, it filters the sunshine as a cool lighting source to a larger extent and provides a solution to energy efficiency in design of high transparency architectures.

Features:

- 1 Higher visible light transmittance — ensuring better natural lighting
- 2 Extremely low solar heat transmittance — effectively impeding solar heat radiation.

Triple Silver Low-E Glass

Within the coating structure of triple silver Low-E glass, there are three silver layers. As a result, triple silver Low-E glass performs better against solar heat than double silver Low-E glass and is currently the best silver based Low-E glass in terms of high visible light transmission and energy efficiency. Triple silver Low-E glass is suited for high transparency buildings with special solar shading requirement.

Bendable and Post-Temparable Low-E Glass

Ordinary Low-E glass cannot be bent and post-tempered after coating which limits larger scale application of Low-E glass and promotion of energy efficient buildings. In view of the prevailing conditions and economic development in China, CSG has researched and developed Low-E coatings made of new materials which can be bent and post-tempered after coating to meet the need of curved Low-E glass in current architectural design practice.

- 1 Can be bent and post-tempered after coating.
- 2 Has optical properties and energy efficiency as ordinary Low-E glass.

Specifications :

Dimensions of standard sheet (mm): 2440x3660, 2400x3300, 2100x3300

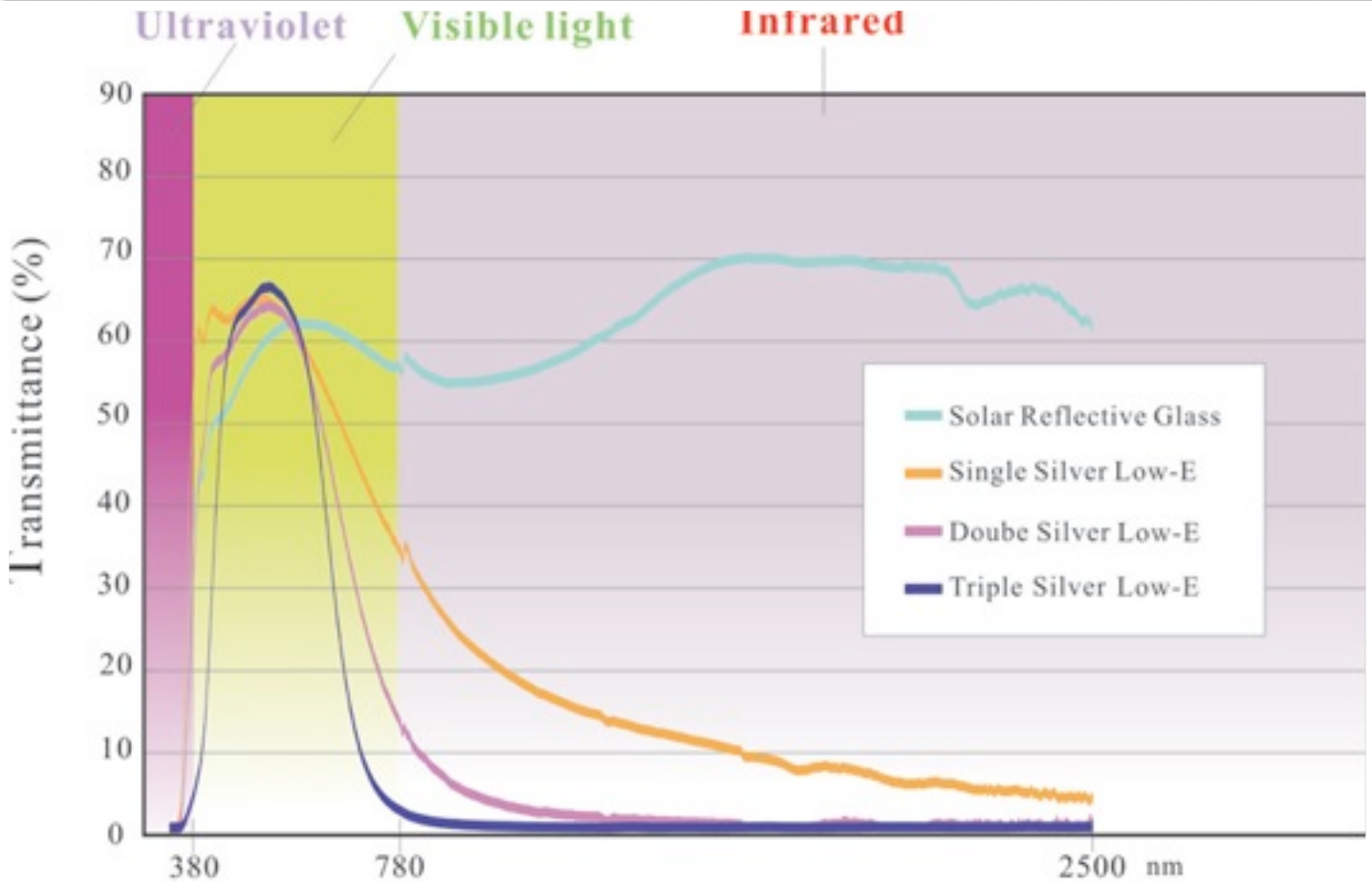
Maximum dimension (mm): 3300x6000

Minimum dimension (mm): 300 x 800

Thickness (mm): 3, 4, 5, 6, 8, 10, 12, 15, 19

The other thicknesses and sizes may be available upon request.

The differences among various types of glass is reflected in their spectral data as shown in the following figure



Transmission curve of solar spectrum for different types of glass

New Bendable and Post-Temperable Triple Silver Low-E Glass

TT63 with 64% Visible Light Transmittance and .28 SHGC after tempered.

**The stock sheet sizes are 72" x 96", 84" x 130", 84" x 144", 89" x 130",
89" x 144".**

The standard thickness: 3.2mm, 4mm, 5mm, 6mm, 8mm.

Custom sizes and thickness are available.