

5 Low Emissivity

Low-e

"Emissivity" is a measure of the ability of a surface to emit thermal radiation. Low-E coatings are designed to reduce the emissivity of a surface, which helps to reduce heat loss through the window. This is achieved by reflecting long-wavelength infrared radiation back into the room. Low E coatings are typically applied to the inner surface of the glass in a double-pane window. The U-value of a window is a measure of its overall thermal performance. Low-E coatings can significantly improve the U-value of a window, making it more energy-efficient. This is particularly important in cold climates where heat loss through windows is a major concern. Low-E coatings are also used in other applications, such as in automotive windows and in space exploration, to help maintain a stable temperature.

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2140 * 3300, 2250 * 3300, 2140 * 1650, 2440 * 1650

Insulation, F-coating, Low-E coating, etc.

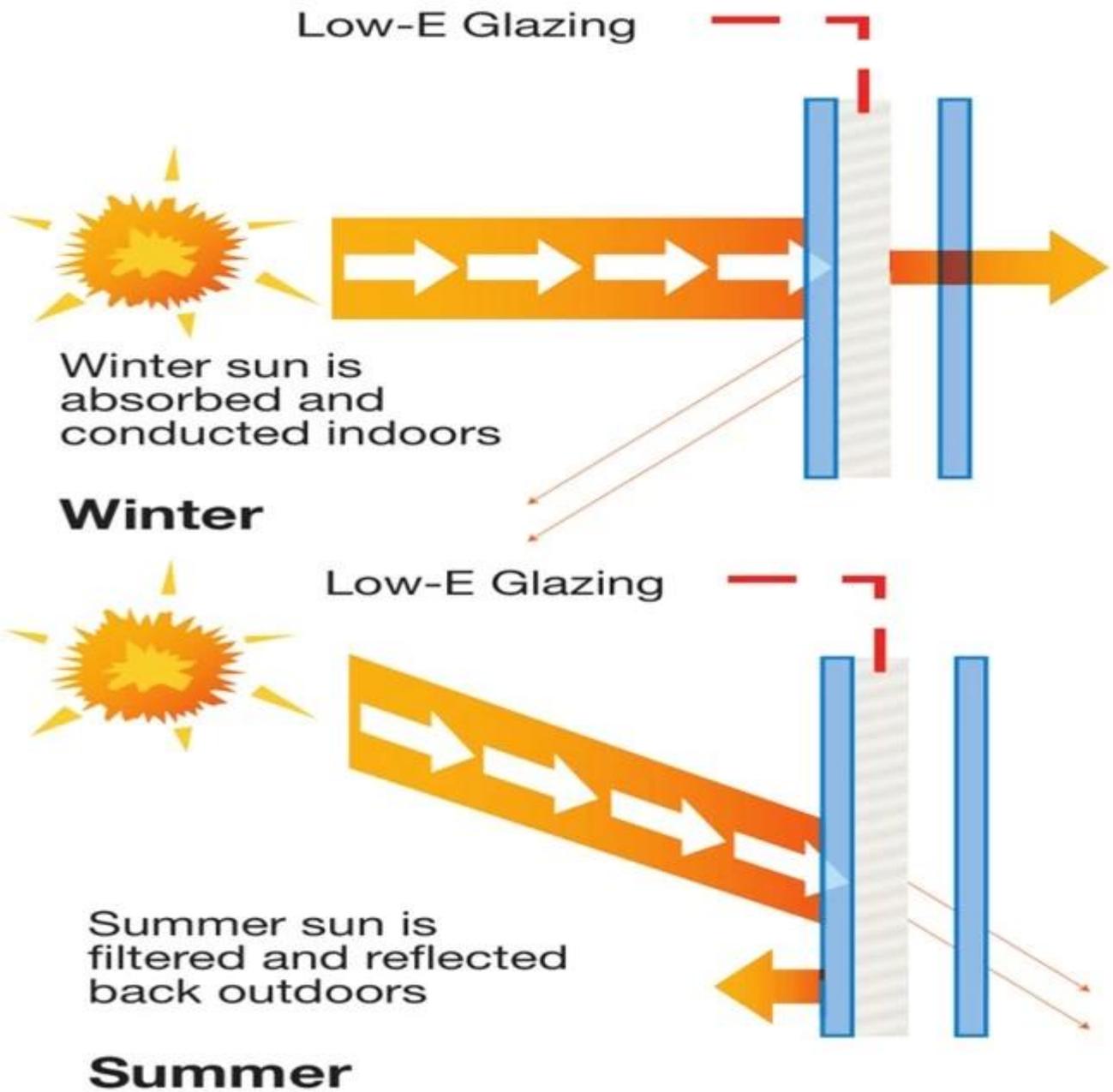
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| Structure | | Light Properties | | Thermal Properties | | | U Value |
|----------------|-----------|------------------|--------|--------------------|----------|------|---------------------|
| Single Glazing | Thickness | LT (%) | LR (%) | EA (%) | SHGC (%) | SC | W/M ² ·K |
| Low-e | 4mm | 82 | 11 | 20 | 71 | 0.83 | 3.6 |
| | 5mm | 81 | 12 | 21 | 71 | 0.83 | 3.6 |
| | 6mm | 80 | 12 | 22 | 71 | 0.82 | 3.6 |
| | 8mm | 80 | 11 | 25 | 67 | 0.79 | 3.6 |
| | 10mm | 79 | 11 | 28 | 67 | 0.79 | 3.6 |

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