

## 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 the 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. Other factors that affect the U-value of a window include the frame material, the gas fill between the panes, and the thickness of the glass panes.

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

Insulation, F-value, U-value, R-value, etc.

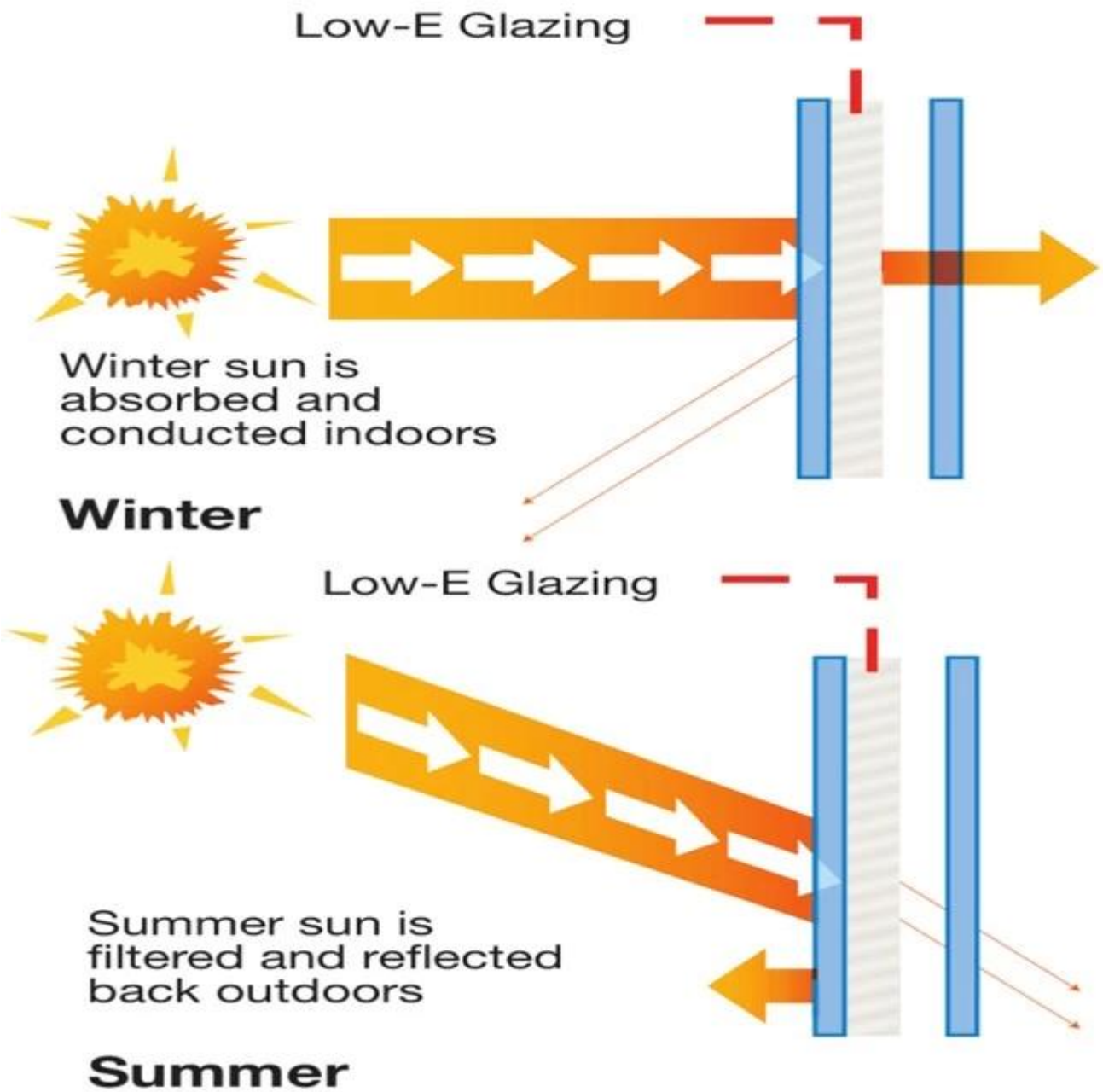
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Structure		Light Properties		Thermal Properties			U Value
Single Glazing	Thickness	LT (%)	LR (%)	EA (%)	SHGC (%)	SC	W/M <sup>2</sup> ·K
Low-e	4mm	82	11	20	71	0.83	3.6
	5mm	81	12	21	71	0.83	3.6
	6mm	80	12	22	71	0.82	3.6
	8mm	80	11	25	67	0.79	3.6
	10mm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

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