

Low E Window Films



What is Low E window film?

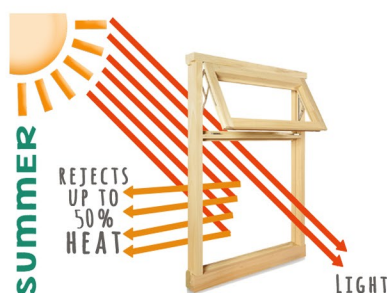
The 'E' in Low E stands for 'emissivity', which relates to a material's ability to emit radiant energy. So Low E window films improve energy efficiency by emitting less infrared electro-magnetic energy than other materials, which results in less heat transmission through the glass.

How does it work?

With untreated, plain glass windows, warmth is lost during the heating season because objects within a room are warmer than the temperature outside. Those objects will radiate heat towards the cooler outdoors, and that heat will escape through the glass.

The application of a Low E film helps prevent heat transmission through the glass as the coating does not absorb a significant portion of radiant heat and instead reflects much of it back into the room.

Low E films also work on hot days, reducing heat gain inside a room by blocking the sun's heat from entering the glass from the outside. Low E films that achieve a WERS star rating in cooling and heating do so because they demonstrate benefits in both thermal conditions. In that sense, Low E films improve a home's energy efficiency in all climates and across all seasons.



According to WFAANZ distributor members, Low E films can help retain as much as **half** the heat inside the room on cold days, and block as much as **half** the heat entering the room on hot days.

WFAANZ recommends the use of WERS-rated Low E films with heating and cooling energy stars. Visit www.wfaanz.org.au/WERS for the rating table.

BENEFITS

- ☐ Reduce energy consumption
- ☐ Keeps rooms warmer in Winter and cooler in Summer
- ☐ Lower cost compared to new high performance windows
- ☐ When applied to clear single glazing, annual thermal insulating performance approaches that of clear double glazed windows
- ☐ Installed to the interior of the window, they do not entail complex construction set-ups or undue inconvenience
- ☐ Visible light transmission can be as high as 70% - so you get the light without the heat
- ☐ Low E films are so specific in their targeting of infrared radiation they do not impede plant growth

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