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PolyCB2

NASA Technologies

Stop Reflected Solar Radiation Damage

Stop Melted Vinyl Siding and Potential Eye Damage from Reflective Treated Window Glass and Low Energy (Low-E) Glass Window Panes.

SED (Solar Energy Diffusion) screen by PTI successfully diffracts high energy beams of sunlight. This redistribution of a potentially concentrated beam dissipates the solar energy over a wider area rendering it harmless.

Slight distortions of a window or door glass can turn reflective glass panes into a parabolic mirror. This is most common among reflective energy efficient windows and windows treated with reflective window film. Studies have shown that even the slightest curvature of the surface of glass, when at specific angles related to the sun, can produce an intensely hot beam of solar energy.



Vinyl Siding Melted by Window Reflection

PTI' Solar Energy Diffusion (SED) Screen is engineered and formulated to exacting technologies **designed to scatter the reflected light rays and keep them from becoming a single intense beam.** In optical terms, a diffracted pattern is formed and the powerful solar energy is diffused. See graphic example of light wave diffraction at the bottom of this page.



Melted vinyl siding is not the only damage nor only hazard associated with intense reflected radiation from windows. Burnt out sections and strips of well cared for lawns, destroyed outdoor furniture cushions and other extreme heat damages have been attributed to this phenomena. And, the potential for injury to one's eyes cannot be overlooked.

PTI' Solar Energy Diffusion (SED) Screen is sold as a special order item only. Price is \$2.88 per square foot in widths of 48" and 96". To phone order, Call 239-463-1664.

SED screen is the color of perforated granite and allows excellent outward view. It can be used to replace fiberglass screen in conventional aluminum screen frames by using a one size smaller spline.

PTI's Custom Production Department will also, upon your request and measurement specifications, custom cut and Velcro bind the edges for easy attachment directly to the window frame. PTI's high bonding adhesive for Velcro will insure that the mating Velcro strips will remain secure to the frame.

The staff at Protect Industries is always ready to assist. You may email them at: info@PTIScreen.com or call them at: 239-463-1664.

For info on other PTI Products, Click Here → [Protect Industries screen mesh products](#)

Graphic example of parabolic reflection & solar diffraction

