

Hospital glazing security upgrade pays for itself through energy savings in less than two years

Description: **9-story 1970's Hospital building**
Film: **9 mil Silver 20 SolarZone Safe**
Size of job: **4,800 m²**
Implementation: **Al-Sorag Ltd**



Project Task

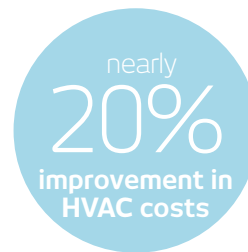
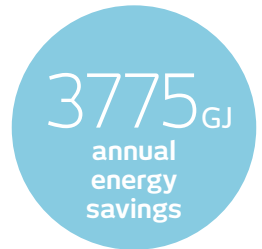
With threatening clouds looming on the political horizon, the Israeli government prioritized enhancing the security of strategic installations critical to civilian life. The project focused on securing the glazing of 30 key hospitals and health centers in the metropolitan area of Tel Aviv. Hanita's SolarZone Safe solar control Security films offered a perfect solution – safely upgrading glazing, without burdening the taxpayer. The Loewenstein Hospital Rehabilitation Center is one example of how passive glass protection can actively deliver energy efficiency.

Solution

SolarZone Safe Silver 20 energy-efficiency security film was chosen to upgraded glass security to hospital facades facing the sun. While giving high protection from glass fragments, the film also delivered greater energy efficiency, lower carbon emissions, and reduced wasted energy. The Silver film cut heat build-up through the glass by around 40%, keeping the interior cooler, and neutralizing hot-spots. With lower, more even room temperatures, the air conditioners consumed less energy, and even worked for shorter periods. The energy savings proved to be remarkable.

Outcome

Initially, the hospital administration had been apprehensive about the glazing security update, but the entire installation process proved to be undisruptive, and the benefits substantial. Not only has staff and patients' safety been increased, the reduction of glare and heat buildup has delivered a tangible improvement to comfort. As an added benefit, the reflective silver film added a clean and contemporary look to the building's exterior. The energy savings were beyond expectations, cutting an estimated 3775 GJ pa from the annual HVAC costs, a saving of nearly 20%. In fact, the total energy savings gave the security upgrade a remarkable payback period of less than two years.



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