

Solar Control Window Films: Success Stories

National Geographic Society Campus, Washington, D.C.



Installation Summary

Problem:

Damage/injury risks from unprotected glass
Excessive solar heat
High utility usage/costs

Solution:

Solar Gard Solar Bronze 20
Solar Gard Stainless Steel 35
Solar Gard Armorcoat 4 Mil

Amount of film:

21,701 sq. ft. (2,016 sq. meters)

Benefits:

Greatly increased safety
GSA compliance
Significantly reduced solar load
Reduced energy usage
More comfortable interior climate
Elimination of glare

"Both installations did exactly what we needed them to; now we have increased safety and receive exceptional energy savings. Best of all, we achieved it through a solution that was both attractive and effective – it didn't darken the rooms, and doesn't take anything from the architect's original intent Solar Gard and Armorcoat were the ideal retrofit products for our campus." Richard Neil, chief engineer

Solar Gard Armorcoat® is natural selection for National Geographic Society

The National Geographic Society campus in Washington, D.C., is home to all things anthropological. Inside of its stately walls are the society's popular museum, magazine and book publishing offices, archives, television production studios and administrative offices. When Richard Neil, chief engineer for the expansive three buildings, conducted an evaluation of energy usage in 2001, it was determined that

they needed to immediately reduce their solar load. After successfully addressing that problem, two years later, when GSA recommended that all buildings within the D.C. area provide a measure of blast mitigation for their windows, Society engineers turned to a familiar vendor to assist with their problem.

Frank and Patrick Clugston of Eastern Metallizing, Inc., initially analyzed the building for energy related problems. They suggested the installation of 12,500 square feet of Solar Gard Solar

Bronze 20 and Stainless Steel 35 on the upper floors of the building. When approached for help with broken-glass related safety for the campus two years later, they solved the problem with Solar Gard Armorcoat 4 Mil Clear on the interior lobby windows and in the cafeteria. The end result was all that the property engineers had hoped for.

The installation of Solar Gard films in 2001 immediately provided a cooler climate and increased energy efficiency; the solar load was significantly reduced and the

displays received increased protection from ultraviolet radiation and solar heat-related damage. In 2003, the Solar Gard Armorcoat installation provided an incredible safety measure. The durable, resilient Solar Gard Armorcoat film ensures that there is a strong safety measure in place in the event that a nearby, or even direct, terrorist attack results in shattered windows. Eastern Metallizing, Solar Gard and Armorcoat were the perfect formula for success!

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