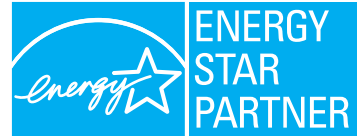


Carroll County Courthouse  
Mount Carroll, Illinois

C A S E S T U D Y

**ENERGY COSTS TAMED  
WITH LLUMAR® WINDOW FILM**



The Carroll County Courthouse is a classic "town hall" building that stands in a square in the middle of Mount Carroll. Built in the early nineteenth century, the Courthouse has served the town and county community for nearly two hundred years. Its large courts and chambers brought shivers from the cold in the winter and perspiring heat in the summer. Recently the entire 12,000 square-foot building underwent remodeling; an endeavor that included an energy audit to seek the means of containing and lowering the unacceptable costs for heating and air-conditioning

County officials retained the services of Johnson Controls to conduct the audit and prepare recommendations. Johnson Controls is a world-wide expert in facility management that efficiently manages, installs, services and operates systems to reduce energy use in non-residential buildings.

LLumar® window film became an integral element in the Johnson Controls program, with 1,200 square feet of

LLumar N1020 Bronze film selected to be installed on all windows and glass doors. In the program's execution, the film alone contributed to savings in heating and air conditioning energy usage of 15% with corresponding cost savings.

LLumar window films are microthin films composed of polyester and metallized coatings bonded by adhesives that are installed onto interior glass surfaces to provide significant energy-control protection. They screen out heat, block ultraviolet rays and deflect harsh glare. LLumar adapts to the changes in the seasons, reflecting the hot sun in the summer, and reducing heat loss in the winter. A patented scratch resistant finish enables trouble free maintenance with standard cleaning products. Specifically, LLumar N1020 Bronze window film has a built-in capability for reducing solar heat by 77%. Also, the installation of LLumar window film cut down the glare of the sun as it entered the building by more than three-quarters and blocked almost all (99%) of the ultraviolet light to help protect interior furnishings from fading and deterioration. The film also delivers protection against glass fragmentation in the event of glass breakage as the glass particles become trapped in a sheath formed by the film.



LLumar Window Film is pleased to have strict quality systems and has been ISO 9001 Certified (Certificate Number FM 35957). LLumar® is a registered trademark of CPFilms Inc. ©2005 CPFilms Inc. Martinsville, VA (800) 255-8627

The nature of certain delicate fabrics and dyes will lead to fading regardless of the application of any window film protective treatment.