



**When Looks Matter!
Triple Silver Coating Generates
High Light Transmission,
Increased Solar Control
and Superior Aesthetics**

CASE HISTORY: When Looks Matter! Triple Silver Coating Generates High Light Transmission, Increased Solar Control and Superior Aesthetics

PROBLEM: A new nine-story hospital located in Tucson, Arizona, required meeting an energy code requirement of 0.25 Solar Heat Gain Coefficient (SHGC) on clear glass. Although various coatings and tinted glass options could meet that requirement, those options were too colorful or too reflective for the new design of this hospital.



PROJECT: The project, the Banner University Medical Center Tucson, is a nine-story hospital being built by Banner Health in Tucson, Ariz. Expected to open in Spring 2019, the 670,000-square-foot facility includes approximately 44,000-square-feet of glass incorporated into the façade. Floors one through three of the building contain the primary public spaces and the majority of the diagnostic and treatment departments including 19 operating rooms and 21 imaging modalities. The fourth floor features a double height mechanical floor, with a mezzanine that houses support spaces. Floors five through nine provide in-patient private bed units yielding 204 beds, and floors one through four include bridge connections to the existing hospital through Diamond Children’s Medical Center (DCMC).



SOLUTION: For this project, Banner Health, in concert with the architect and contractor, selected Viracon's VNE-53 triple silver coating to provide a neutral aesthetic with a SHGC on clear glass that exceeds the code requirements. The use of clear glass also provided an economical solution compared to the use of more expensive tinted substrates.

By incorporating one of Viracon's newest triple silver coating product, VNE-53, into the design of this hospital, the building owner achieved a modern, contemporary look. . Viracon's VNE-53 features a silver-neutral exterior appearance which maintains a consistent exterior color when viewed from any angle. This high performance glass coating with a Visible Light Transmission (VLT) of 49% and a Solar Heat Gain Coefficient (SHGC) of 0.23 on clear glass, the building designer avoided sacrificing natural light for energy performance.

The building features insulating glass units with VNE-53 on the number two surface. VNE-53 is available in multiple configurations up to 130 inches by 236 inches. Viracon's big glass offering meets or exceeds all applicable ASTM standards, and provides the flexibility to meet a bolder design aesthetic while still meeting or exceeding performance requirements.



VNE-53, Viracon's newest triple silver coating, offers architects, designers and building owners the ideal balance between neutral aesthetics and high-performance solar control.

BENEFITS: VNE-53 by Viracon delivers superior exterior aesthetics – a consistent neutral-silver exterior color – regardless of the angle from which a building is viewed, while at the same time, delivering the natural light needed to promote workplace productivity, patient comfort, and the thermal qualities that allow building owners to lower their energy costs.

PLAYERS: Building Owner: Banner Health. General Contractor: Sundt Construction/DPR.
Glazing Subcontractor: KT Fab.

ARCHITECTS: Shepley Bulfinch, GLHN Architects & Engineers, Inc., and AEI.

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