

# 3M™ Scotchtint™ Night Vision Window Film Means Clear Views Day and Night in Sedona

## C A S E H I S T O R Y



This Sedona, Arizona, home was designed with numerous windows to invite the splendid red rock mountain views on every side.

### P R O B L E M

When the owner of a 14,000-square-foot dream home in Sedona, Arizona, designed his residence, he included numerous towering windows that invited splendid red rock mountain views on every side of his property. But along with those views, he knew he would have to contend with one problem—the sun. While he wanted to control the sun's negative effects, such as damaging UV rays, glare, and heat, he didn't want to compromise the views with heavy draperies or blinds.

“The Night Vision film has given our home a nice shaded look—it's just pleasing to the eye. And, when I'm inside at night looking out into the lighted courtyards, the view is clear as day. Without the film, the glare from the lights would have prevented that.”

—*Sedona Homeowner*

### S O L U T I O N

The Sedona homeowner had encountered a similar issue at his manufacturing plant a year earlier. Working with local 3M Scotchtint window film dealer Ross Kehl, owner of Synchronicity, Inc., he had 3M window film applied to the building's windows.

“The 3M window film solved our heat and glare issues at the plant, so when we ordered windows for the house and couldn't get them tinted before they were installed, I called Kehl in again,” the homeowner says. “He recommended the new 3M Night Vision window film.”

According to Kehl, Night Vision window film made sense for several reasons.



When you're on the inside looking out, the 3M Night Vision window film's low reflectivity allows ultra-clear views—even at night.

“The homeowner wanted a film that would control the effects of the sun while saving his unbelievable views,” says Kehl. “Night Vision film's superior technology blocks UV rays almost completely, reduces solar heat by up to 59 percent, and decreases glare by 72 percent. But, best of all, when you're on the inside looking out, the film's low reflectivity gives you clear views—both day and night.”

**3M** Innovation



The windows on the left show the rather harsh views the homeowner experienced without window film. The windows on the right show the warmer and clearer views with Night Vision window film.

#### PROJECT SUMMARY

3M Dealer: Ross Kehl, Synchronicity, Inc.,  
Sedona, Arizona

Installation Date: November 2002

Area Covered: 3,500 square feet of glass

Installation Time: Project spanned several months. As various sections of the house were constructed, window film was applied.

Type of Film: 3M™ Scotchtint™ Night Vision to include NV-35, NV-25, and NV-15.

Remedies Considered Prior to Window Film: The windows are already constructed with low-E glass. Window film was the only option considered for further protection. Project Notes: Applying window film up the home's elevator shaft presented a challenge because of the tight quarters and the awkward positions required to reach windows. In addition, since the home was still being constructed during much of the installation, special care had to be taken to eliminate dust particles from "floating" under the film as it was being applied.

Based on the location of the windows, Kehl used three out of the four shades in the Night Vision line. Windows facing north were covered with NV-35, the film with the lightest tint. For windows facing east, west, and south, he applied NV-25. Finally, the windows on the home's elevator shaft were covered with NV-15, for maximum privacy.

#### RESULTS

Preliminary results indicate that Night Vision window film will save the homeowner 10 to 15 percent in energy costs per year. Even so, the homeowner is more pleased with the film's other benefits.

"The Night Vision film has given our home a nice shaded look—it's just pleasing to the eye," he says. "And, when I'm inside at night looking out into the lighted courtyards, the view is clear as day. Without the film, the glare from the lights would have prevented that."



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#### THE 3M DIFFERENCE

"3M is a quality product," says the homeowner. "We've used other tinting companies in the past for our cars, but 3M offers a film that truly does what it says it will do."