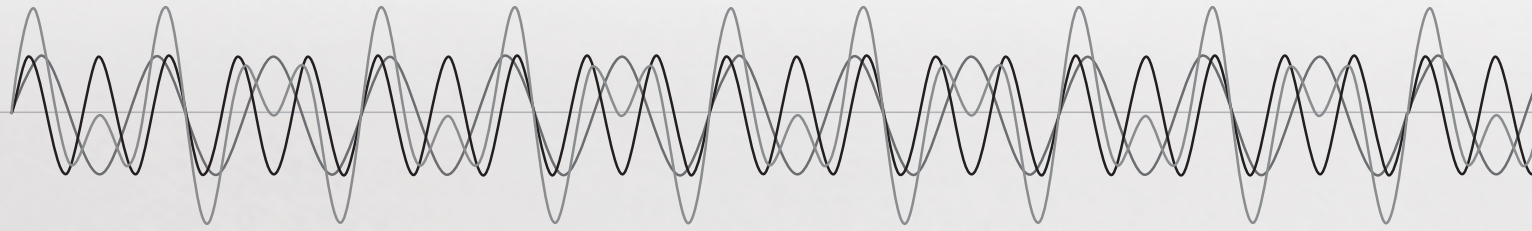




Turn loud **noise...**  
into **quiet** comfort

  
**Silent**  
**Guard**®  
Acoustical Windows and Doors

[www.Silent-Guard.com](http://www.Silent-Guard.com)



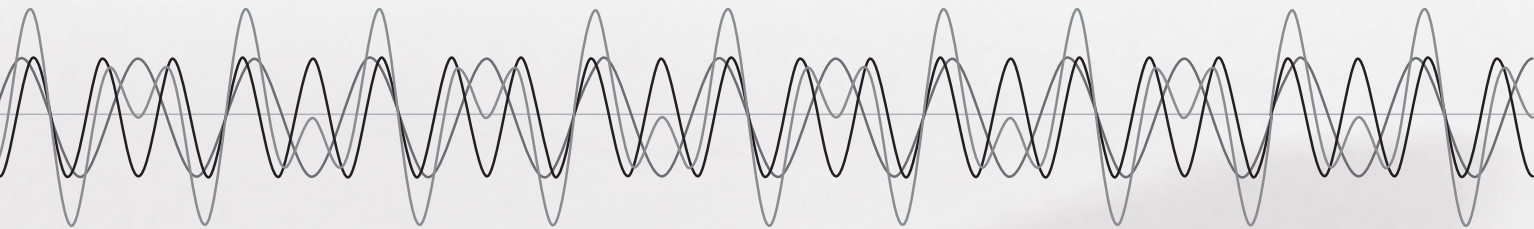
# Silence is Golden



SilentGuard® Acoustical Windows and Doors represent the most sophisticated technology available in sound control fenestration, and can be customized to meet a wide range of acoustical requirements. These technologically advanced products deliver cutting edge sound suppression, outstanding thermal efficiency and the aesthetic beauty and maintenance free qualities of premium vinyl windows.

Air, road and rail traffic are among the most pervasive and uncontrollable sources of noise in society today. Increased stress, sleep loss, high blood pressure and reduced productivity are just some of the negative effects attributed to the constant noise pollution we are subjected to in our modern world. Atrium's SilentGuard® acoustical windows and doors are the perfect solution for reducing noise penetration in buildings located near noisy airports, highways or railroad tracks.

SilentGuard® windows and doors are the result of exhaustive design efforts and meticulous craftsmanship that combine to produce windows and doors of exceptional structural strength and superior thermal performance characteristics that enable these products to meet or exceed industry standards for forced entry resistance (including the stringent California codes), while providing valuable, year round energy savings.



## ACOUSTICAL BASICS

**STC (Sound Transmission Class)** – This rating was first published in 1970 in accordance with ASTM E413, and was designed to provide a performance rating for interior wall partitions against noises from speech, television, radio and office equipment, it is important to note that ASTM E413 specifically states that the STC calculation should not be used to evaluate partitions exposed to transportation noise such as motor vehicles, aircraft and trains.

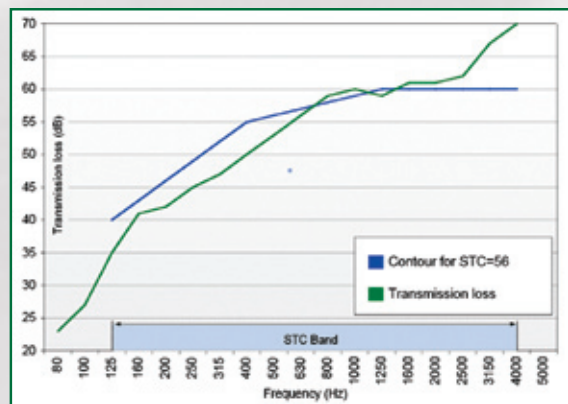
**EWR/EWNR (Exterior Wall Noise Reduction)** – This rating was developed in 1977 by Wyle Laboratories for the U. S. Department of Transportation, Federal Highway Administration. It is similar to the STC rating, unlike the STC rating, it is designed to provide a performance rating for building facades that are exposed to transportation (traffic) noise.

## INDUSTRY REFERENCES

**AAMA (American Architectural Manufacturer's Association)** – AAMA is a voluntary trade association that provides performance standards, product certification and educational programs for the window and door industry.



**ASTM (American Society for Testing and Materials)** – ASTM is an international voluntary standards development organization, and is a globally trusted source for technical standards for materials, products, systems and services. Many AAMA Standards are directly related to or employ ASTM Standards for testing and performance of windows and doors.



**OITC (Outdoor-Indoor Transmission Class)** – This rating was first published in 1990 in accordance with ASTM E1332, and was designed to provide a performance rating for exterior facades and facade elements (windows and doors) that are subjected to transportation noise such as motor vehicles, aircraft and trains. The OITC rating can be assigned to specimens tested in the field and in the laboratory.

**NFRC (National Fenestration Ratings Council)** – NFRC is a non-profit organization that administers a uniform, independent rating and labeling system for the energy performance of windows, doors, skylights and attachment products. NFRC provides fair, accurate and reliable energy performance ratings that enable architects, builders, code officials and consumers to compare the thermal performance of different fenestration products, and provides a fair and level playing field for fenestration manufacturers in the area of thermal performance.

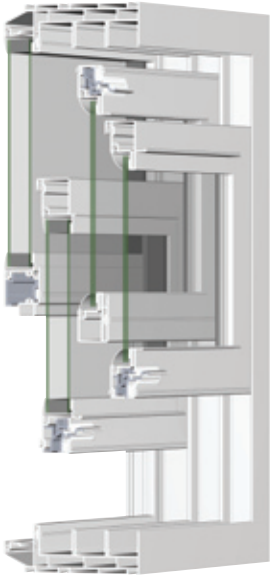


**NVLAP (National Voluntary Laboratory Accreditation Program)** - Administered by the



National Institute of Standards and Technology, the NVLAP provides unbiased third-party evaluation and recognition of laboratory performance and provides technical guidance to assist laboratories in upgrading their performance.

# The Right Products in the Right Places



All Silent Guard® window and door products are subjected to a rigorous battery of testing to determine acoustical (STC, EWR and OITC), thermal and structural performance. All testing is conducted in strict accordance with applicable industry Standards, and we partner with only the best AAMA, ASTM, NFRC and NVLAP accredited laboratories to ensure our products provide our customers with years of worry free service.

Along with certified quality and performance, the Silent Guard® series represents the most complete line of vinyl acoustical windows and doors available in the market. Our huge array of hung, sliding, casement, awning and picture windows will enhance any architectural approach or design style, and our wide selection of special, architectural shapes will help bring your vision to life. In addition, the SilentGuard® series includes both sliding and swinging patio doors to help you add elegance and stylish beauty to any room.

SilentGuard® windows and doors are also easy to install, easy to use and easy to maintain and our national presence and superior distribution system enable us to deliver these cutting edge products anywhere you need them.

## High-Performance, Energy Efficient Glass Systems

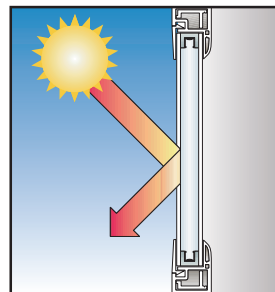
To ensure our SilentGuard® Acoustical Windows provide you with superior energy savings, high-performance Low-E Glass is provided as a standard feature on both the 7000 and 8000 Series acoustical products.

### Low-E Glass Technology

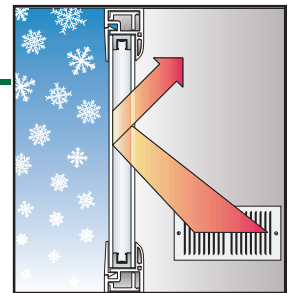
Low-E Glass is coated with a virtually invisible layer of silver that reflects radiant solar energy while permitting visible light to pass through the glass.

In cold, winter climates, the Low-E Glass keeps rooms warmer by reflecting heat back into the home while letting warm, solar rays in. In hot, summer temperatures, the Low-E Glass lets visible light pass while reducing the infrared and ultraviolet radiant solar energy that enters. So your rooms stay cooler and you save on precious energy costs.

As an added bonus, because Low-E Glass blocks radiant solar energy, room furnishings will be better protected from fading or discoloration.



*In the summer, Low-E Glass reflects the sun's energy away from your home for cooler inside temperatures.*



*In the winter, Low-E Glass lets warm solar rays in and keeps the heat inside your home.*

SilentGuard® windows with Low-E Glass are Energy Star compliant in all climate zones.



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### **Kids Can't Fly**

*Screens are not designed to restrain a child from falling through an open window. Please take proper precautions.*

24179 05-2010