



**ArtUSA**  
Noise Control Products Inc.

*"The Name to Know In Noise Control"*

# Single Source!

**Engineering – Sales – Installation – Fabrication**

## Indoor Firing Ranges



The sound produced by gunfire is deafening outdoors, but when the acoustical energy it produces is confined to a small indoor space as in a firing range, it gets even louder. The noise can reach levels as much as ten times greater than those experienced in outdoor ranges. Art-Sorb panels help eliminate this indoor "range effect" by absorbing sound waves that would otherwise build up to dangerous levels causing serious discomfort and even hearing damage. Additionally, they are relatively inexpensive and easy to install. Art-Sorb panels are ideal for indoor firing ranges because they are Class 1 fire-rated and have excellent sound absorption at 500 and 1000 Herz (Hz), the most common frequencies produced by gunfire. The sound absorption coefficient of most 2" thick panels are between 0.73 and 1.05 at 500 and 1000 Hz. This means that the panels absorb between 73% and 100% of the acoustical energy at 500 Hz and 1000 Hz, depending upon the exact pattern. Panels are available in a variety of patterns and surface

treatments to meet almost every firing range need. A surprisingly small amount of absorption goes a long way in most ranges. Typically, a range requires an amount of foam equal to the square footage of its ceiling. The foam is divided, however, between the ceiling and the walls for the most efficient sound absorption. This will normally reduce the amount of acoustical energy within the range by an amazing 85%. Measure the square footage of the ceiling as if you were covering it completely. Attach two-thirds of the panels ordered to the ceiling in one large block or in several bands starting directly above the firing positions and extending downrange to where the first signs of bullet damage begin to show on the ceiling. Attach the remaining one-third of foam to the walls, once again extending downrange from the firing stations to the first signs of bullet damage. Leave one to two feet clear above the floor to avoid damage to the foam panels by floor cleaning equipment. Also, avoid areas near switches and control panels to eliminate damage done by users and personnel.



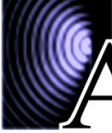
**Your Single Source!**

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[www.artusaindustries.us](http://www.artusaindustries.us)



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## Other ArtUSA Industries Noise Control Products



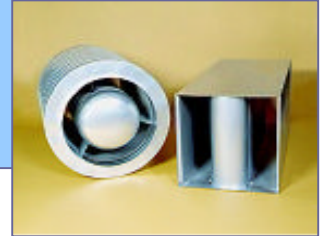
Custom Enclosures



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Sound Attenuators



- Engineering
- Sales
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- Installation

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