



Accutone² SENTRY SERIES

- BLAST / BULLET RESISTANT
- MODULAR CONSTRUCTION
- FIRE-RATED AND UL APPROVED
- INTERIOR AESTHETICS
- WIND & SEISMIC APPROVED

IAC America has been long-regarded as the leader in the development of modular Secure, Compartmented Information Facilities (SCIF) and RF/Acoustic Shielded facilities and products. Now these facilities are available with AccutoneTM2 enhanced performance. The Accutone2 Sentry Series combines industry-rated, laboratory tested, and proven in-field performance with contemporary aesthetics that offer the look and feel of traditional construction within modular units.



SENTRY SERIES

ACCUTONE2 SENTRY SERIES: EXCEEDING THE STANDARDS

IAC Accutone2 Sentry enclosures provide RF / acoustic shielding and physical security. The enclosures meet both of the most commonly used specifications for secure facilities:

Department of Central Intelligence Directive DCID1-21. *Physical Security Standards For Sensitive Compartmented Information Facilities (SCIF) and*

National Security Agency (NSA) "TEMPEST" *Specification 65-6 for electronic security.*



ACCUTONE2 SENTRY SERIES ATTRIBUTES

- Light-weight, four-inch-thick panels available with RF shielding within shell construction
- Aesthetically pleasing, weather-resistant cladding
- Handle wind loads as high as 120 miles per hour (193 km/hr) and roof loads of 50 lb/sq ft (2394 N/m²) or higher
- Resist seismic loads of Zone 4 magnitude without additional external support
- Bullet / blast resistant construction
- Fire rated
- UL, wind, and seismic approvals

LESS REAL ESTATE, BETTER PERFORMANCE

Although acoustic-frequency and radio-frequency phenomena obey the same basic wave-theory equations, in traditional construction, they often are regarded as requiring separate attenuations and individual construction in which an RF enclosure is encased in an acoustical room made of either masonry or sheet-rock-and stud construction. The result requires

wall thickness of as much of 24" (60 cm) and generates a weight that precludes construction anywhere but on solid ground. Finally, without rigorous attention to detail, the acoustic facility has the potential to fail the acoustical specification.

IAC America's Accutone2 Sentry system is built from panels which are only 4" (10 cm) thick. The fire retardant panels, of welded steel construction, are filled with sound-absorbing and dampening material. They are light-weight, modular and meet DCID 1-21 requirements for security. Panels are tightly connected and reinforced with steel joiners for additional structural strength. They may be ordered with RF shielding installed.

TURN-KEY SOLUTIONS

Variations in traditional construction, including the specification and installation of doors and the ventilation design, have the ability to seriously compromise the acoustical adequacy of a SCIF installation.

IAC Accutone2 enclosures are delivered as complete turn-key units that include:

- Walls / Doors/ Floor / Ceiling (or roof)
- Ventilation systems
- Wave-guide-beyond-cutoff filters
- Silencers
- Alarm systems
- Power and communication filters.



The Accutone2 Brochure, (Bulletin ACCU2.000) offer a completely flexible selection of fabric panels, acoustical liners, and carpeting in five color-ways that combine to create palettes ranging from monochromatic to complementary. Other space-enhancing options include, chair rails, fabric top-paneling, computer floors, and interior finishes for floors and desktops.

WEIGHTS AND STC RATINGS OF IAC SENTRY MODULAR BUILDING COMPONENTS

Component	STC	Weight lb/ft ²	Thickness inches
Noishield Panel	40	8	4
Sentry Noishield	56	9.5	4
Noise-Lock I Panel	44	9.5	4
Noise-Lock II Panel	45	10.5	4
Fire-Noise-Lock Panel			
Sentry Noise-Lock II Panel	61	11.5	4
Super-Noise-Lock Panel	48	15	4
Gemini Noise-Lock Panel	70	2	12
Sentry Noise-Lock Door	49	7	2 ^{1/2}
Quadraseal Noise-Lock Door	63	20	12

Metric equivalent: 1lb/sq ft = 47.88 N/m²

1 in. = 25.4mm

ECONOMIC ADVANTAGES

Accutone2 Sentry rooms are fully demountable and relocatable. Because RF / acoustic and physical security is provided in a single-perimeter structure, relocation can easily be accomplished without loss of acoustic or RF shielding effectiveness.

As fully demountable structures, they can be purchased with equipment funds rather than construction funds.

Accutone2 Sentry rooms also qualify for accelerated depreciation tax benefits according to Internal Revenue Service Ruling 75-178. Savings, compared to welded-shell alternatives, can be as much as 25% of the purchase price.



IAC America's Accutone2 Sentry Series SCIF units are both laboratory- and field-tested to meet the requirements of both DCID 1-21 and NSA 73-2A and 65-6. IAC America guarantees the in-filed performance of the Accutone2 Sentry Series.

ACOUSTIC AND RF PERFORMANCE

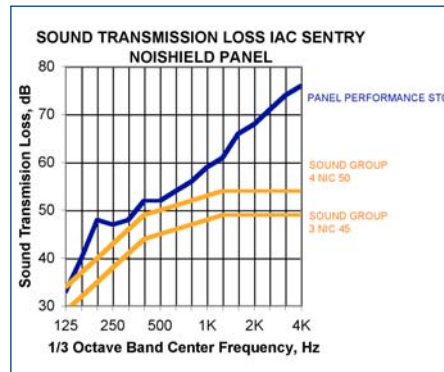
Accutone2 Sentry is available in four levels of acoustic performance which meet or exceed the NIC sound groups outlined in DCID 1-21. Accutone2 panels can offer an STC rating as high as 52 dB and RF shielding effectiveness of 100 or 120 dB at 1GHz. By comparison, the traditional wood-product-core RF shield panel construction will typically offer an STC of 35 dB and an RF shielding effectiveness of approximately 50dB

UNDERSTANDING

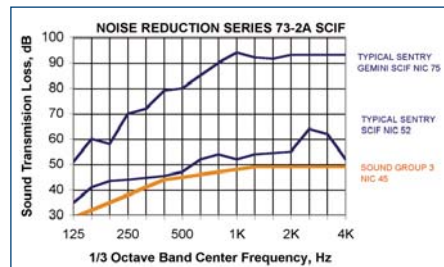
STC AND NIC

Sound Transmission Class (STC)

is the laboratory rating system used to compare the acoustical effectiveness of building components such as partitions, doors, or silencers. STC is a single-number decibel rating that measures the transmission-loss properties of an element.



Noise Isolation Class (NIC) is a field-rating system for complete buildings, rooms, or secure facilities that is described as a single-number rating.



at 1 GHz. All Accutone2 specifications are laboratory tested and in-field proven.

MODULAR COMPONENTS FOR USE IN TRADITIONALLY CONSTRUCTED SECURE FACILITIES

Noise-Lock® Multi-Wave Doors

are RF shielded and comply with the requirements DCID 1-21, and are acoustically rated at STC 49. IAC America's unique cam-lift hinge allows for "Zero" threshold height. RF / acoustic contact seals eliminate the need for lever action door latching. Request Bulletin 3.0501?



SILENCERS

IAC America's extensive line of silencers satisfies almost any acoustic and pressure-drop requirement. RF attenuators are incorporated into all silencers. Silencers can be matched to meet STC, NIC, and RF shielding performance specifications of modular and welded structures. Request Bulletin 1.0301 SDS 23.0?

PANELS

Accutone2 Multi-Wave RF-shielded panels are four inches thick and constructed with galvanized steel on both sides. Panels are filled with compressed sound-absorbing and retarding elements and welded to form an intrusion-resistant construction. When used in demountable construction, panel-joints are shielded with a continuous-roll-formed galvanized steel section. When used in permanent construction, panels are factory welded into shipping modules for field assembly or complete rooms. Request Bulletin 6.0513?.

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IAC PRODUCTS

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Noise-Lock® Doors
Noise-Lock Windows
Noise-Lock Vision Wall
Trackwall® NIC Series Operable Walls

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Noishield Louvers
Packless Silencers
Power-Flow® Silencers
Quiet-Duct® Silencers
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Quiet-Duct® Ultra/Low
Quiet-Duct® Ultra/ZAPD
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