

NAP SILENTFLO



Audiometric Rooms

NAP SILENTFLO 
THE EXPERTS IN NOISE CONTROL

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Audiometric Rooms

Hearing conservation programmes generally recommend that audiometric testing should be carried out at the commencement of the hearing protection program in the case of individuals already employed, and prior to employment in the case of new employees. In the absence of change in the work conditions the tests should then be conducted annually thereafter.

Such a procedure can reliably establish the hearing loss suffered by employees, the detrimental effects on individuals working in noisy environments and be used to protect them from suffering further noise induced hearing loss.

By testing an individual's hearing loss prior to commencement of employment, a company whose normal operations involve high noise levels may obtain relieved responsibility from the penalties of Worker's Compensation Claims.

The Australian Standard is now supported by Hearing Conservation legislation in all States. The employer is now responsible for safeguarding the health and welfare of employees.

In order to conduct audiometric monitoring correctly, a sound isolating room as suggested by AS/NZS1269, is needed for industrial and medical audiology in hearing conservation programmes.

Applications

Audiometric Rooms can be used in medical centres, hospitals, industrial testing stations, factories and administration areas. In the NAP room the subject sits inside and the testing is conducted by an experienced operator from outside the audiometric room.

Selection

The NAP Audiometric Room is used to reduce ambient noise levels in a test space to below the maximum acceptable levels defined in AS/NZS1269. They are designed to achieve a background level of 14dB at 1000Hz, when NAP Audiometric Rooms are used in areas with an ambient noise level of less than 65dB(A). When it is required to conduct audiometric testing in areas with noise levels higher than this, special higher performance double shell isolation rooms are available on request.

Size of Standard Room

The room comes in a standard size of 1200mm wide x 950mm deep x 2100mm high. Internal dimensions are 1000mm x 750mm x 1800mm high with a doorway 710mm x 1780mm.

The acoustic performance is detailed opposite and the purchaser should ensure that the space available will not cause any reduction in performance.

Non-Standard room to clients specifications.



Standard Features

Each room comes with standard fittings for conducting audiometric testing. As befits a room of such quality these standard features include:

- Double hinged single door
- Built in air-relief silencers for ventilation (non protruding)
- Window fitted in side wall, double glazed. 560mm wide x 560mm high
- Incandescent light with on/off switch wired to an external junction box
- Jack panel consisting of three ring tip and sleeve jack plugs, completely wired
- Base isolated on four anti-vibration mounts
- Carpeted floor
- Weight of the booth is approximately 500kg, distributed over four points

Each room is available with alternate door and window configurations. When ordering please state the door and window locations.

Performance

The acoustic performance of the NAP Audiometric Room is as follows:

Octave Band Centre Frequency (Hz)						
Hz	125	250	500	1000	2000	4000
dB	28	34	39	48	50	50

Noise reduction is the difference in decibels, in the sound pressure level inside and outside the room when situated in a reverberant field.

This performance meets the stringent requirements laid down by AS/NZS1269. These figures enable the room to be used for audiometry in virtually all office, medical and administration areas.

Technical Information

The NAP Audiometric Testing Room is constructed from sheet steel panels, internally dampened and with an internal layer of high absorption acoustic infill. The internal sheet is perforated to provide maximum absorption at all frequencies in the normal speech range(500-2000Hz) and to prevent standing waves.

The entire assembly is structurally sound, can be erected by inexperienced personnel and is free standing. Vibration isolation mounts are also provided as standard to minimise structural sound transmission.

Odd sizes are available for use as sound isolating rooms or as audiometric testing booths. Details of these and the acoustic performance is available on request.

High performance double glazed windows enables the operator to single to and observe the subject during testing. Windows are normally 560mm x 560mm and one window is supplied per booth, although additional, bigger observation windows are available if requested.

A full size acoustic door with high performance perimeter seals is supplied with a large, easy to operate door latch. This handle can be operated from both sides for safety and ease of use.

Door arrangement is optional and when ordering please state the location in relation to the window and the direction of opening.

When necessary, fresh air can be supplied to the room by an optional internally controlled airblower. This is mounted on the exterior wall but, if this is a problem, it can be supplied roof mounted. Air from this silenced supply ventilates the room at a rate exceeding 10 air changes per hour. An air relief vent allows air to pass out of the room.

The NAP Audiometric Testing Room is generally supplied prime painted for finishing by others. This avoids damaging the final coat of paint whilst in transit, but we can supply the room in a wear resistant satin enamel paint if requested. Internal carpet and a timber grain finish provide an attractive yet functional finish.

Non Standard Rooms

In some situations the standard size room may not be suitable. This does not represent a major problem as non standard sized rooms can be supplied if required.

For non-standard sizes and superior acoustic performance rooms we ask you to contact our acoustical engineers to discuss your requirements.

Options

NAP will supply audiometric testing rooms and sound proof rooms in any size for any application.

Typical options for the NAP Audiometric Room include:

- Timber grain marviplate interior
- Intercom
- Alternative plug jacks and power points
- Odd sizes
- Different carpet tiles, wall veneers or colours
- Seat
- Audiometric testing apparatus

Delivery

The room can be supplied fully assembled, or crated ready for assembly on site. We normally recommend that our experienced team assemble the room on site to ensure the specified acoustic performance.

Ordering

Ordering can be expedited by making a clear, concise order that includes the following information:

- Name and address for delivery
- Our quotation reference number
- Delivery date
- Standard features not required
- Options required
- Variations and other particulars

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