

Audiometric Booth

The function of an Audiometric Booth is to provide proper acoustical environment so that tests can be conducted without much interference from outside noise. Therefore, location of where the audiometric booth to be placed is the single most important decision for one to make before constructing the Audiometric Booth.

ISTIQ Audiometric Booth offer the best solutions to overcome the problems in audiometric tests. The room is designed to have adequate ventilation and lighting so the patient and tester will be comfortable during hearing evaluation.



ISTIQ Standard Booth -Fabric

Applications

ISTIQ Audiometric Booth are suitable for a wide spectrum of applications. It is specially designed to suit everyone's need where noise control is the main concern.

Typical applications are as follows:

- hospitals
- medical centers
- factories
- industrial testing stations
- administration areas



ISTIQ Standard Booth -Perforated

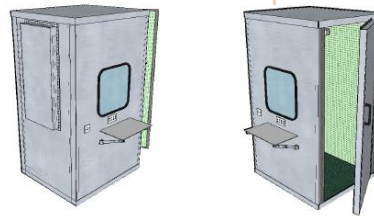
Selection Guidelines

ISTIQ Audiometric Booth considers two important stages to achieve the required room specifications. Firstly, is to determine the background noise levels. Then, the type of room which is going to be implemented will be selected. The room chosen should provide ample noise reduction to bring the internal noise down to those prescribed by The Department of Occupational Safety and Health (DOSH).

Sound pressure level of the proposed location of an audiometric room must be measured. This includes each test tone of octave band center frequencies.

The Department of Occupational Safety and Health (DOSH) has specified that the maximum allowable sound level inside the Audiometric Booth are as follows:

<i>Freq (Hz)</i>	<i>500</i>	<i>1k</i>	<i>2k</i>	<i>4k</i>	<i>8k</i>
dB	27	30	35	42	41



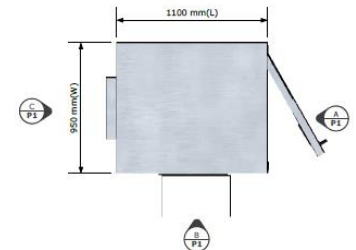
Construction

ISTIQ Audiometric Booth is fabricated from a 2" (50mm) thick, steel panel.. This panel has a solid outer surface and a perforated inner surface and is filled with high density acoustical fill and damping material.

Inert, heat resistant, non-combustible type of different acoustical fill with different densities is particularly selected to give the optimum overall noise absorption. Floating floor normally will be incorporated at the bottom of the audiometric room to reduce the transmission loss of the noise.

Technical Specification

<i>Acoustic Performance</i>	
Frequency (Hz)	125 250 500 1k 2k 4k
Noise Reduction in dB	16 20 29 38 42 48
<i>Standard Booth Dimension</i>	
<i>External Dimension</i>	1000 W x 800 L x 1800 mmH
<i>Internal Dimension</i>	900 W x 700 L x 1700 mmH
<i>Door Perimeter</i>	710 W x 1680 mmH
<i>Wall Panels</i>	
<i>Thickness</i>	50mm thk
<i>External</i>	Powder Coated GI
<i>Acoustic Infill</i>	60-80 kg/m ³ density wool
<i>Internal</i>	Powder coated GI or Fabric Finishing
<i>Floor Construction</i>	
<i>Thickness</i>	50mm
<i>Upper Surface</i>	GI c/w structurally reinforced and carpet
<i>Bottom Surface</i>	Vibration isolator as floating floor
<i>Door Construction</i>	Flush Mounted c/w magnetic-seal
<i>Jack Panel</i>	4-8 nos of jack panel and connection cord
<i>Standard Features</i>	<ul style="list-style-type: none"> Double glazed observation window Carpeted floor Absorptive acoustic ceiling Lighting & Electrical Connection Ventilation Silencers & Fan Mono & Stereo Jack Panel
<i>Non-Standard Booth</i>	<p>Any special requirement other than standard size booth can be supplied.</p> <p>ISTIQ engineers are always available to discuss your specific requirements.</p>



Audiometric ROOM

The function of an Audiometric Booth is to provide proper acoustical environment so that tests can be conducted without much interference from outside noise. Therefore, location of where the audiometric room to be placed is the single most important decision for one to make before constructing the Audiometric Room.

ISTIQ Audiometric Room offer the best solutions to overcome the problems in audiometric tests. The room is designed to have adequate ventilation and lighting so the patient and tester will be comfortable during hearing evaluation.

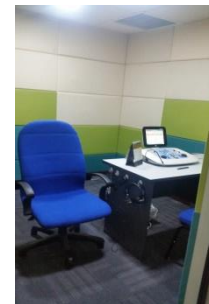


Applications

ISTIQ Audiometric Room are suitable for a wide spectrum of applications. It is specially designed to suit everyone's need where noise control is the main concern.

Typical applications are as follows:

- hospitals
- medical centers
- factories
- industrial testing stations
- administration areas



Selection Guidelines

ISTIQ Audiometric Room considers two important stages to achieve the required room specifications. Firstly, is to determine the background noise levels. Then, the type of room which is going to be implemented will be selected. The room chosen should provide ample noise reduction to bring the internal noise down to those prescribed by The Department of Occupational Safety and Health (DOSH).

Sound pressure level of the proposed location of an audiometric room must be measured. This includes each test tone of octave band center frequencies. From the measurement, the type of audiometric room can be selected, whether a single or double wall panel.

The Department of Occupational Safety and Health (DOSH) has specified that the maximum allowable sound level inside the Audiometric Booth are as follows:

<i>Freq (Hz)</i>	<i>500</i>	<i>1k</i>	<i>2k</i>	<i>4k</i>	<i>Bk</i>
dB	27	30	35	42	41

Construction

ISTIQ Audiometric Room is fabricated from a 3" (75mm) thick, steel panel which weighs approximately 10lbs. per sq.ft. This panel has a solid outer surface and a perforated inner surface and is filled with high density acoustical fill and damping material.

Inert, heat resistant, non-combustible type of different acoustical fill with different densities is particularly selected to give the optimum overall noise absorption. Floating floor normally will be incorporated at the bottom of the audiometric room to reduce the transmission loss of the noise.

Technical Specification

<i>Acoustic Performance</i>	
Frequency (Hz)	125 250 500 1k 2k 4k
Noise Reduction in dB	28 34 39 48 50 50
<i>Standard Room Dimension</i>	
External Dimension	Custom Made
Internal Dimension	
Door Perimeter	
<i>Wall Panels</i>	
Thickness	75mm thk
External	GI plate finish with epoxy and fabric finishing
Acoustic Infill	60-80 kg/m ³ density wool
Internal	GI perforated plate finish with epoxy
<i>Floor Construction</i>	
Thickness	80mm
Upper Surface	GI c/w structurally reinforced and carpet
Bottom Surface	Vibration isolator as floating floor
<i>Door Construction</i>	Flush Mounted
<i>Jack Panel</i>	3 ring tip with sleeve stereo plug completely wired
<i>Standard Features</i>	<ul style="list-style-type: none"> Double glazed observation window Carpeted floor Absorptive acoustic ceiling Lighting & Electrical Connection Ventilation Silencers for Inlet and Outlet Jacked panel
<i>Non-Standard Rooms</i>	<p>Any special requirement other than standard size rooms can be supplied.</p> <p>This is to cater any needs for some situations where the standard size rooms are not suitable to use.</p> <p>ISTIQ engineers are always available to discuss your specific requirements.</p>

