



**A range of almost 30 different standard rooms and booths for audiometric examination and medical research**

- Guaranteed acoustic performance
- Wide choice of sizes and orientations
- Excellent value for money
- Over 40,000 rooms/booths already supplied
- Fast, clean installation
- Built-in ventilation systems
- Well equipped and decorated
- Purpose-built rooms also available
- BS EN ISO 9001 quality registered

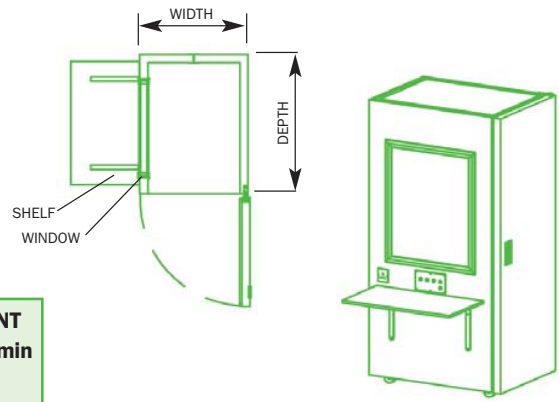


standard audiometric rooms

## 250 Mini Series Sound Shelter

IAC's smallest acoustic booth is a proven, low-cost solution for industrial audiometry.

- Available as Pre-assembled or Kit Form Model
- 53mm thick acoustic panels
- Mounted on castors for complete mobility
- Supplied with external shelf and internal bench seat
- Equipped with ventilation system, lighting and jack panel
- See separate IAC datasheet for detailed specification

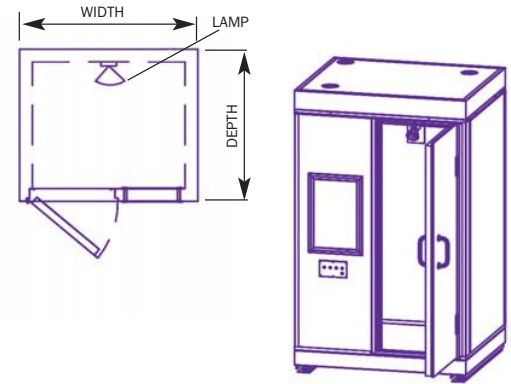


MODEL	INTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min
	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT		
250-SS	585	855	1680	740	980	1945	295	2.85

## 401-A-SE SpaSaver

Single-wall (individual room) construction for single occupancy.

- Both the door and the window are incorporated in front wall panel, making this booth ideal for tight spaces
- Door Opening: 610mm wide x 1857mm high
- Window Clear View: 405mm wide x 610mm high
- All other details as per 400-A series

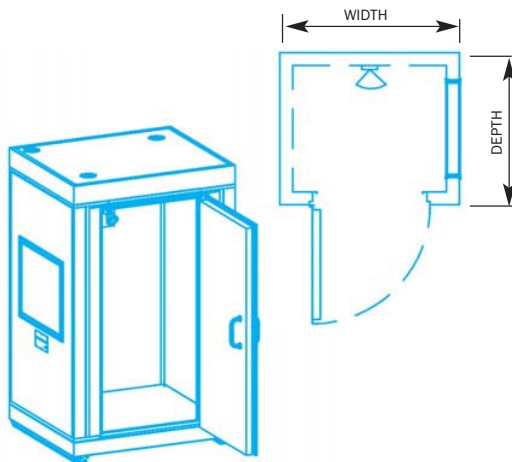


MODEL	INTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min
	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT		
401-A-SE	1220	1016	1995	1424	1220	2317	890	2.85

## 400-A Series

Single-wall (individual room) construction for single or multiple occupancy.

- 102mm thick acoustic modular panels
- Isolated, floating floor on anti-vibration mounts
- Equipped with ventilation, lighting and jack panel

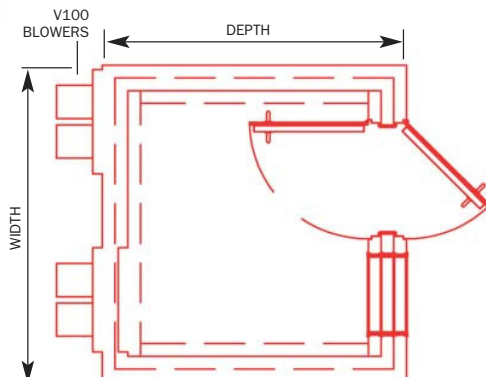


MODEL	INTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min	
	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT			
400-A	1016	914	1995	1220	1118	2317	820	2.85	
401-A	1220	1016		1424	1220		950		
402-A	1930	1826		2210	2030		1580		
403-A	2235	2131	2343	2515	2335	2343	1890	5.66	
404-A	2740	2540		3020	2744		2380		
405-A	3050	2845		3125	3049		2800		8.50

## 1200-A Series

Double-wall (individual room) construction for single or multiple occupancy.

- 2 layers of 102mm thick acoustic modular panels
- 102mm air gap between panel layers
- Isolated, floating floor on anti-vibration mounts
- Equipped with ventilation, lighting and jack panel



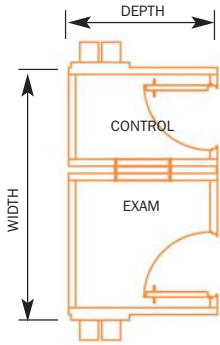
\*A further 370mm should be added to the height, width or length of the room depending on the location of the ventilation system.

MODEL	INTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min
	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT		
1201-A	1224	1016	1995	1836	1628	2471	1840	2.85
1202-A	1930	1826		2542	2438		3410	
1203-A	2235	2131		2847	2743		3990	5.66
1204-A	2740	2540		3352	3152		4940	8.50
1205-A	3050	2845		3662	3457		5625	

## 400-A-CT Series

Two single layer rooms joined by a vibration isolated filler piece bridging a 102mm thick air gap.

- Provides Exam Room and Control/Observation Room
- Connecting window provided between the two rooms
- All other details as per 400-A Series



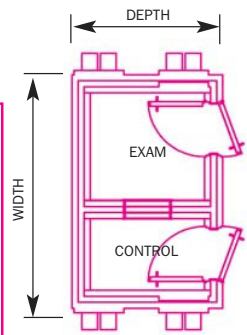
INTERNAL			EXTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min		
CONTROL			EXAM			COMPLETE						
MODEL	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT			
402-ACT	1220	1930	1995	1826	1930	1995	3708	2134	2343	2770	5.66	5.66
403-ACT	1625	2131		2235	2131		4370	2335		3380		
404-ACT	2135	2540		2740	2540		5537	2744		4400	8.50	5.66
405-ACT	2440	2845		3050	2845		6152	3049		5040	8.50	8.50

## 1200-A-CT Series

Two single layer rooms with an outer enclosure of 102mm panels to provide a double walled construction.

- Provides Exam Room and Control/Observation Room
- Connecting window provided between the two rooms
- All other details as per 1200-A Series

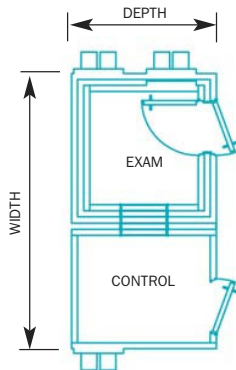
INTERNAL			EXTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min		
CONTROL			EXAM			COMPLETE						
MODEL	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT			
1202-ACT	1220	1930	1995	1826	1930	1995	3964	2542	2471	5400	5.66	5.66
1203-ACT	1625	2131		2235	2131		4778	2743		6420		
1204-ACT	2135	2540		2740	2540		5793	3152		8160	8.50	5.66
1205-ACT	2440	2845		3050	2845		6408	3457		9430	8.50	8.50



## 1400-A-CT Series

Double layer exam room connected to a single layer control room with no isolated floor.

- Provides Exam Room and Control/Observation Room
- Connecting window provided between the two rooms



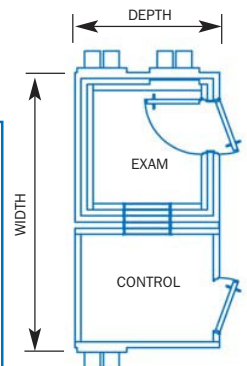
INTERNAL			EXTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min		
CONTROL			EXAM			COMPLETE						
MODEL	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT			
1402-ACT	1830	2234	2369	1930	1826	1995	4550	2438	2547	4630	5.66	5.66
1403-ACT	2135	2539		2235	2131		5160	2743		5440		
1404-ACT	2335	2948		2740	2540		5865	3152		6620	8.50	5.66
1405-ACT	2640	3253		3050	2845		6480	3457		7575	8.50	8.50

## 1600-A-CT Series

Similar construction as 1400-A-CT but rooms are divided by an extra acoustic barrier and an air gap bridged by a vibration-isolated filler panel.

- Provides Exam Room and Control/Observation Room
- Connecting window provided between the two rooms

INTERNAL			EXTERNAL			EXTERNAL			ROOM WEIGHT kg	VENT m <sup>3</sup> /min		
CONTROL			EXAM			COMPLETE						
MODEL	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT			
1602-ACT	1830	2234	1995	1930	1826	1995	4754	2438	2471	5080	5.66	5.66
1603-ACT	2135	2539		2235	2131		5364	2743		5940		
1604-ACT	2335	2948		2740	2540		6069	3152		7210	8.50	5.66
1605-ACT	2640	3253		3050	2845		6684	3457		8300	8.50	8.50



**SPECIFICATION FOR IAC STANDARD AUDIOMETRIC EXAMINATION AND MEDICAL RESEARCH ROOMS \***

\* For a detailed specification for IAC 250 Mini Series Sound Shelter, please refer to IAC Datasheet MSS/1.00.

**VENTILATION**

- Room models 400A, 401A and 401A-SE shall be provided with the IAC Tranquil-Aire ventilation system integrated into the roof panel
- All other series rooms shall have the ventilation 'V-100 Blower' ventilation system roof or wall mounted and be in conjunction with special ventilation panels. A maximum of a further 360mm should be added to the height, width of depth of the room, depending on the location of the system

**ACOUSTIC INFILL**

- Floor, wall, door and roof panels shall be sound retardant, absorbing, inert, mildew resistant and vermin proof
- Heat transfer factor shall be no more than 0.397Wm C

**WALL & ROOF PANEL 'H' JOINERS**

- Acoustically and structurally bond the panels together
- One-piece, seamless, non-welded and roll formed
- Constructed from 0.9mm steel
- Designed to maintain the acoustic integrity of the room

**WINDOW CONSTRUCTION**

- Minimum of double glazed with 6.4mm thick laminated safety glass
- Typical dimensions: 750mm x 600mm clear view (size may vary in some orientations)
- Contained within a 'pressure-sealed' aluminium trimmed frame

**JACK PANEL**

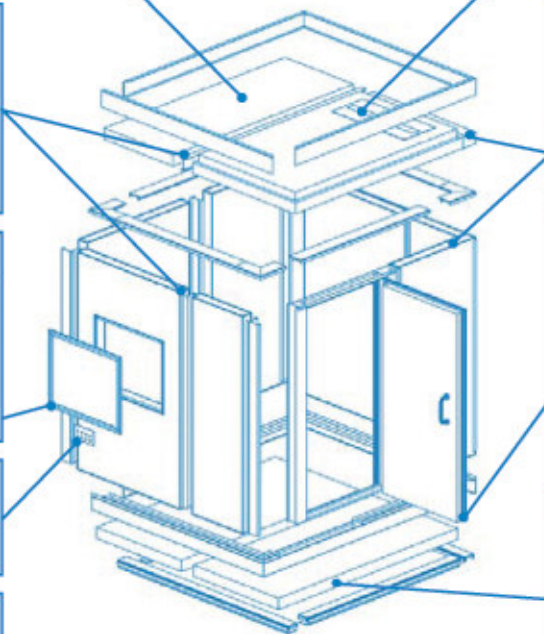
- Containing nine 6.4mm three-pole jack sockets
- Situated beneath observation window

**INSTALLATION PROCEDURE**

- Rooms shall be engineered as to allow installation of this equipment within 100mm of an existing wall

**FINISH**

- All rooms are supplied polyester powder coated, colour: RAL 9002 Grey/White
- All floors are covered in an anti-static carpet, colour: Blue Blush



**ROOF & WALL PANEL CONSTRUCTION**

- Constructed from 102mm thick acoustic medical panel
- Outer panel face: 1.6mm steel sheet
- Inner panel face: 0.7mm galvanised perforated steel sheet
- Average weight: 50Kg/m

**DOOR CONSTRUCTION**

- IAC Noise-Lock Door
- Flush fitting
- Level swing
- Provided with magnetic seals and pull handles
- Outer face: 1.6mm steel sheet
- Inner face: 1.2mm perforated steel sheet
- 1.2mm thick steel framing
- Typical clear opening: 838mm wide x 1855mm high

**FLOOR CONSTRUCTION**

- Constructed from 102mm thick acoustic medical panel
- Upper panel face: 3.0mm steel sheet
- Lower panel face: 1.6mm galvanised perforated steel sheet
- Average weight: 52Kg/m
- Floor panels are situated on anti-vibration isolator mounts, loaded for a natural frequency of 6.5 Hz for maximum elimination of structural noise

**ELECTRICAL**

- All rooms are provided with:
- Tungsten lamps, operated from an adjacent switch
  - All A-CT rooms shall be provided with four surface mounted 13amp socket outlets beneath the window within the control room
  - Power operation: 240V, 50Hz (all cables supplied by others)

**NOISE REDUCTION & SOUND ABSORPTION**

- **Noise Reduction:** The minimum allowable noise reduction of completely assembled rooms, as tested in accordance with ASTM Standards in a recognised independent and approved laboratory, are shown in the table below
- **Sound Absorption:** The composite sheet metal and sound absorbing assembly shall have a minimum overall noise reduction coefficient of 0.9 (1.10) based on sound absorption coefficients as tested in a recognised independent and approved laboratory in accordance with ASTM C423-77 as shown in the table below

NOISE REDUCTION, dB	OCTAVE BAND CENTRE FREQUENCY, Hz								
	63	125	250	500	1K	2K	4K	8K	
<b>SINGLE SKIN ROOMS</b>	33	31	39	50	57	61	68	62	<b>NIC 53</b>
<b>DOUBLE SKIN ROOMS</b>	37	52	64	80	93	>93	>93	>93	<b>NIC 75</b>
<b>SOUND ABSORPTION COEFFICIENT</b>	0.38	0.94	1.19	1.11	1.06	1.03	1.03	1.04	<b>(1.10) NRC 0.95</b>

Noise-reduction measurements shall be made in accordance with the following ASTM Designations: E596 and, where applicable, portions of E90 and E336.

\* Defined as the measured difference between the sound pressure levels in a reverberant room, outside the booth and inside the booth. \*\*± 3dB for field instrument accuracy. \*\*\*Excluding Model 1400-A-CT control room.

NIC - Noise Isolation Class, single number rating system for noise-reduction characteristics.

**OPTIONAL EXTRAS**

- Acoustic double glazed window within door (150mm wide x 600mm high)
- Emergency light pack
- Internal power sockets
- R.F. and electrostatic shielding
- Fabric covering to internal walls
- Power filters
- Special jack panels, cut-outs and plugs
- Increased clear opening width doors (where possible)
- One way viewing film fitted to window
- High frequency fluorescent lights

ALL DESIGNS AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Official distributor



**MARVINACUSTICA S.r.l.**

Via Lago di Levico, 7 - 36015 Schio (VI) - Italy

Tel. 0039 0445 575669 - Fax 0039 0445 575002

E-mail: info@marvinacustica.it

www.marvinacustica.it

P.I. 03256430244 - REA: VI 310810

Share capital: €12,500,00