



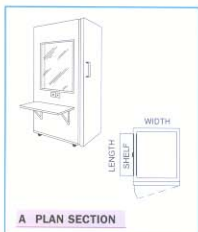
A range of almost 30 different standard rooms and booths for audiometric examination and medical research

- Guaranteed acoustic performance
- Excellent value for money
- Wide choice of sizes/shapes
- Several designs available from stock
- Over 40,000 rooms/booths already supplied
- Fast, clean installation
- Well equipped and decorated
- Purpose-built rooms also available
- BS EN ISO 9001 quality registered



standard audiometric rooms

SELECT FROM 29 STANDARD SIZES AND HUNDREDS OF INTERCHANGEABLE CONFIGURATIONS



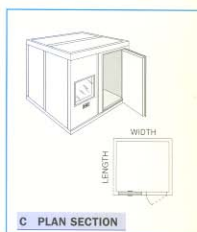
250 Series Mini Sound Shelter A

Smallest room in IAC range. Single wall construction, pre-assembled and supplied as a finished unit or in "kit" form, mounted on castors for complete mobility. For detailed specification please consult separate IAC datasheet.



401-A-SE 'SpaSAVER' B

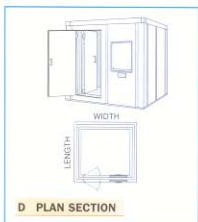
Special, compact, single wall (individual room) design with wall panel incorporating both door and window in same side. Enables room to be installed in areas of limited space (see diagram). Specification otherwise as for 400-A Series rooms, except for reduced window size (405mm wide x 610mm high) and door width (610mm).



400-A Series C

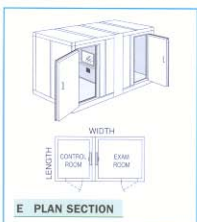
Single-wall (individual room) construction. A single or multiple occupancy room, constructed from 102mm thick modular panels, with its own floor, floating on vibration isolators.

Front cover picture shows modified Model 401-A booth.



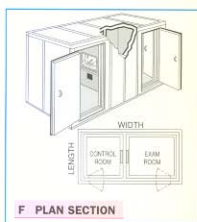
1200-A Series D

Double-wall (room-within-a-room) construction. Two housings constructed from 102mm thick modular panels, separated by a 102mm air space. Inner room floor floats on vibration isolators; outer wall rests on area floor.



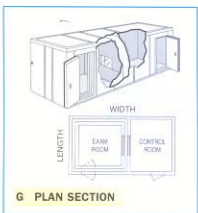
400-A-CT Series E

Sound suite of single-wall construction. Two special 400-A rooms joined by a vibration isolated filler piece bridging a 102mm air gap. The rooms serve as control, equipment or observation rooms and examination or subject rooms.



1200-A-CT Series F

Sound suite of double-wall construction. Consists of a 400-A-CT two-room suite contained within an outer enclosure constructed from 102mm thick modular panels.

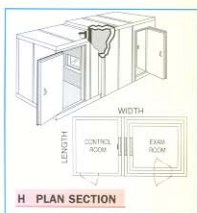


1400-A-CT Series G

Sound suite of composite construction. Special 400-A (single-wall) room without floor, for control, equipment, or observation directly attached to a special 1200-A (double-wall) room for examination or subject use.

1600-A-CT Series H

Sound suite of composite construction. Similar to 1400-A-CT except that rooms are not directly connected but are separated by a 102mm air gap bridged by a vibration-isolated filler piece.



SINGLE ROOM DESIGN DATA (COMPACT MODELS)

MODEL	DIMENSIONS (mm)						ROOM WEIGHT kg	VENTILATION m ³ /min
	INSIDE			OUTSIDE				
	WIDTH	LENGTH	HEIGHT	WIDTH	LENGTH	HEIGHT		
250 SERIES MINI SOUND SHELTER	585	855	1680	740	980	1945	295	2.85
401-A-SE 'SpaSAVER'	1015	1220	1980	1220	1420	2320	890	2.85

SINGLE ROOM DESIGN DATA

A MODELS	DIMENSIONS (mm)						ROOM WEIGHT kg	VENTILATION m ³ /min
	INSIDE			OUTSIDE**				
	WIDTH	LENGTH	HEIGHT	WIDTH	LENGTH	HEIGHT		
400	1015	915	1980	1220	1120	2320	820	2.85
401	1220	1015		1420	1220		950	2.85
402	1930	1830		2285	2135	2030	1580	5.66
403	2235	2135			2440	2335	1890	5.66
404	2745	2540			2945	2745	2380	5.66
405	3050	2845			3250	3050	2800	8.50
1201	1220	1015	1980	1830	1625	2465	1840	2.85
1202	1930	1830		2540	2440		3410	5.66
1203	2235	2135		2845	2745		3990	5.66
1204	2745	2540		3355	3150		4940	5.66
1205	3050	2845		3660	3455		5625	8.50

TWO-ROOM SUITE DESIGN DATA

A-CT MODELS	DIMENSIONS (mm)									ROOM WEIGHT kg	VENTILATION m ³ /min	
	INSIDE						OUTSIDE **				CONTROL	EXAM
	CONTROL			EXAM			COMPLETE					
	WIDTH	LENGTH	HEIGHT	WIDTH	LENGTH	HEIGHT	WIDTH	LENGTH	HEIGHT			
402	1220	1930	1980	1830	1930	1980	3555	2135	2285	2770	5.66	5.66
403	1625	2135		2235	2135		4370	2335		3380	5.66	5.66
404	2135	2540		2745	2540		5385	2745		4400	8.50	5.66
405	2440	2845		3050	2845		5995	3050		5040	8.50	8.50
1202	1220	1930	1980	1830	1930	1980	3960	2540	2465	5400	5.66	5.66
1203	1625	2135		2235	2135		4775	2745		6420	5.66	5.66
1204	2135	2540		2745	2540		5790	3150		8160	8.50	5.66
1205	2440	2845		3050	2845		6400	3455		9430	8.50	8.50
1402	1830	2235	2360	1930	1830	1980	4470	2440	2465	4630	5.66	5.66
1403	2135	2540		2235	2135		5080	2745		5440	8.50	5.66
1404	2335	2945		2745	2540		5790	3150		6620	8.50	5.66
1405	2640	3250		3050	2845		6400	3455		7575	8.50	8.50
1602*	1830	2235	1980	1930	1830	1980	4675	2440	2465	5080	5.66	5.66
1603*	2135	2540		2235	2135		5285	2745		5940	8.50	5.66
1604*	2335	2945		2745	2540		5995	3150		7210	8.50	5.66
1605*	2640	3250		3050	2845		6605	3455		8300	8.50	8.50

*Control room outside height 2285mm.

**A further 260mm should be added to the height, width or length of the room depending on the location of the ventilation system.

Dimensions nominal.

See overleaf for complete design specifications.

SPECIFICATION FOR IAC STANDARD AUDIOMETRIC EXAMINATION AND MEDICAL RESEARCH ROOMS*

1 ROOF & WALL CONSTRUCTION - Roofs and walls shall be constructed from standard medical acoustic panels, 102mm thick. Outer panel faces shall be 1.6mm steel sheet while inner faces will be 0.7mm galvanised perforated steel sheet with 2.5mm diameter openings on 5.0mm staggered centres. Panels are reinforced and framed with 1.2mm channels. Average weight to be not less than 50kg/m².

2 FLOOR CONSTRUCTION - Acousti-Flo® floor shall be 102mm thick with 3.0mm steel sheet upper surface and 1.6mm steel sheet lower surface, structurally reinforced. (Control room in the 1400-ACT series has no floor). All floors are carpeted. Average weight shall not be less than 51kg/m². Floors shall float on properly loaded vibration isolators rated for a natural frequency of 6± Hz for maximum elimination of structural noise.

3 ACOUSTIC INFILL - for floors, walls, door and roof panels shall be sound-retardant, absorbing, inert, mildew resistant and vermin proof. Heat transfer factor shall be no more than 0.397W/m²°C.

4 DOOR CONSTRUCTION - IAC Noise-Lock®, flush fitting, level swing doors with magnetic seals and pull handles shall be provided with a clear opening of 838mm wide x 1855mm high. The door leaf shall be fabricated from 1.6mm thick steel sheet on the outer face with 1.2mm perforated steel sheet on the inner face and 1.2mm framing and reinforcing sections.

5 WALL & ROOF PANEL 'H' MEMBERS - Wall and roof panels shall be acoustically and structurally joined together by 'H' members. One-piece, seamless, non-welded and roll formed 'H' members, constructed from 0.9mm steel shall maintain the acoustical integrity of the room.

6 WINDOW CONSTRUCTION - Windows shall be 610mm x 762mm, double glazed, using 6.0mm thick safety glass, with 'pressure-sealed' aluminium trim frame.

7 JACK PANEL - A jack panel consisting of three 6.0mm three-pole jack sockets and two 6.0mm two-pole sockets shall be provided beneath the window. This jack panel unit shall be designed and installed to preserve the acoustic integrity of the room.

8 ELECTRICAL - All rooms are provided with tungsten lamps operated from an adjacent switch. A separate switch will control the ventilation system. All ACT series rooms shall be provided with four (4) surface mounted, 13 amp socket outlets beneath the window in the control room. Power operation 240V, 50Hz. (All cable supplied by others).

9 VENTILATION SYSTEM - Room models 400A, 401A and 401A-SE shall be provided with the IAC Tranquil-Aire® ventilation system integrated in the roof panel. All other series rooms shall have the ventilation system roof or wall mounted and be operated in conjunction with special ventilation panels. A further 260mm should be added to the height, width or length of the room, depending on the location of the ventilation system.

10 FINISH - All rooms are supplied in a factory finish polyester powder coated condition. Colour: IAC white RAL 9002.

11 NOISE REDUCTION & SOUND ABSORPTION

(a) 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.

Noise Reduction, dB**	OCTAVE BAND CENTRE FREQUENCY, Hz								NIC 53
	63	125	250	500	1K	2K	4K	8K	
All Single-Wall Rooms†	33	31	39	50	57	61	68	62	NIC 53
All Double-Wall Rooms	37	52	64	80	93	>93	>93	>93	NIC 75
Sound Absorption Coefficient	0.38	0.94	1.19	1.11	1.06	1.03	1.03	1.04	(1.10) NRC 0.95

noise-reduction measurements shall be made in accordance with the following ASTM Designations: E596 and, where applicable, portions of E59 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-ACT control room.

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

(b) 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 above.

12 ERECTION PROCEDURE - Rooms shall be so engineered as to allow the installation of this equipment within 100mm of an existing wall.

OPTIONAL EQUIPMENT

A comprehensive range of optional features is available from IAC, some of which are listed below

- Noise-Lock double glazed 300mm x 300mm window in door
- Additional Noise-Lock double glazed windows
- One-way glass Noise-Lock window
- Increased clear opening width doors
- Recessed keyed locks to doors
- Linked single swing door in double walled rooms (standard on model 1201 A)
- Light-tight shades with frames
- High frequency fluorescent lights
- Emergency lighting pack
- Internal power sockets
- Alternative power operation
- Intercom systems
- R.F. and electrostatic shielding
- Power filters
- Fabric coverings to internal walls
- Alternative colour paint finishes
- Special jack panels, cut-outs and plugs
- External folding shelves
- Humidity and temperature controls (air conditioning)
- Fire ratings
- Alternative internal heights

All designs and specifications are subject to change without notice.



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