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## act Series Audiology Booths

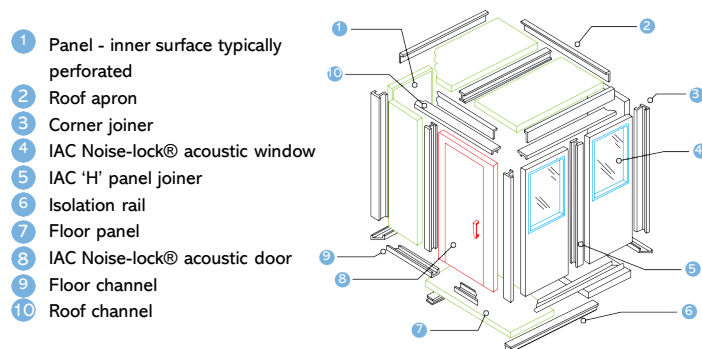
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# Standard Audiology Booths

All IAC audiometric booths are constructed using Moduline™, an integrated system of laboratory and field tested components - including wall and roof panels, structurally isolated floors, doors, windows and silenced ventilation systems. The system offers many key advantages over traditional building materials:

- Guaranteed acoustic performance and compliance with all major technical standards, including HTM 2045 / ISO 8253
- Clean, rapid installation, keeps building time and mess / disruption to an absolute minimum
- Strong, lightweight structures are approximately 1/3 the weight of conventional structures of the same acoustic performance
- Rooms can be dismantled and moved to a different location at low cost and with no loss in acoustic performance



IAC modular audiology rooms are available in a wide range of sizes and can be finished to suit individual requirements. The range of rooms available are:

- **40a Range** - single skin construction complete with acoustic window
- **TETRA** - single skin construction for use in corners to save space
- **120a Range** - double skin construction for extraacoustic performance complete with quadruple glazed acoustic window
- **act Range** - a mixture of single / double skin construction rooms, each with adjoining control/observation room

IAC standard booths are constructed from 102mm thick IAC Noishield™ panels and offer a fitting environment for a whole range of audiological investigations and measurements, including bone conduction tests, speech therapy and psychological evaluations.



## Engineered to perfection.

Over 50 years experience in manufacturing and installing audiology rooms has given IAC the ability to provide the best possible facilities in both aesthetics and performance.

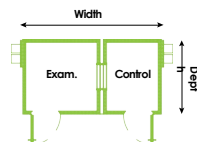
# act Series Audiology Booths

A range of audiometric booths incorporating an adjoining, acoustically isolated control room

## 40act Series - Standard Sizes Available

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

- Provides examination room and control / observation room
- Connecting window provided between the two rooms
- All other details as per IAC's 40a series booths (see page 12)

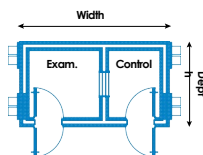


Model	Internal Examination			Internal Control			External Complete			Room Weight (kg)
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	
40act-1	1879	1880	1995	1067	1879	1995	3454	2084	2147	2521
40act-2	2134	2134		1422	2133		4046	2338		3076
40act-3	2642	2134		1422	2133		4572	2338		3351
40act-4	2998	2134		1422	2133		4928	2338		3544
40act-5	2641	2134		2134	2133		5283	2338		3736
40act-6	2642	2134		2286	2133		5436	2338		3818
40act-7	2997	2134		2134	2133		5639	2338		3928
40act-8	2998	2134		2641	2133		6147	2338		4203
40act-9	2489	2642		2134	2641		5131	2846		4229
40act-10	2844	2997		2134	2997		5486	3201		4869
40act-11	3200	2997		2134	2997		5842	3201		5106

## 120act Series - Standard Sizes Available

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

- Provides examination room and control / observation room
- Connecting window provided between the two rooms
- All other details as per IAC's 120a series booths (see page 14)

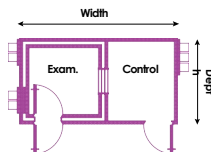


Model	Internal Examination			Internal Control			External Complete			Total Room Weight (kg)
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	
120act-1	1882	1879	1995	1067	1879	1995	3861	2487	2349	2522
120act-2	2136	2134		1422	2133		4470	2742		3077
120act-3	2593	2591		2083	2590		5888	3199		4204
120act-4	2848	2997		2438	2997		6198	3605		5074

## 140act Series - Standard Sizes Available

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

- Provides examination room and control / observation room
- Connecting window provided between the two rooms
- All other details as per IAC's 40a and 120a series booths (see pages 12-15)

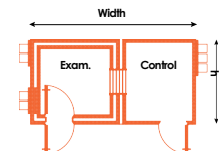


Model	Internal Examination			Internal Control			External Complete			Room Weight (kg)
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	
140act-1	1881	1880	2369	2032	2286	2369	4623	2488	2349	3389
140act-2	2135	2134		2032	2540		4877	2742		3807
140act-3	2592	2591		2388	2997		5890	3199		4840
140act-4	2846	2997		2743	3403		6299	3605		5777

## 160act Series - Standard Sizes Available

Similar construction as 140a-CT, but rooms are divided by an extra acoustic barrier and an air gap bridged by a vibration isolated filler panel.

- Provides examination room and control / observation room
- Connecting window provided between the two rooms
- All other details as per IAC's 40a and 120a series booths (see pages 12-15)



Model	Internal Examination			Internal Control			External Complete			Room Weight (kg)
	Width	Depth	Height	Width	Depth	Height	Width	Depth	Height	
160act-1	1882	1880	1995	1930	2284	2369	4724	2488	2349	3337
160act-2	2136	2134		1930	2538		4978	2742		3741
160act-3	2593	2591		2134	2995		5639	3199		4661
160act-4	2847	2997		2642	3402		6401	3605		5700

## Specification for IAC act Series Audiometric Examination & Medical Research Booths

**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 no less than 50kg/m².

**Floor Construction** – IAC Acousti-flote™ floor shall be 50mm high and structurally reinforced. All floors are carpeted. Average weight shall be no less than 90kg/m². Floors shall float on properly loaded vibration isolators rated for a natural frequency of 6.5Hz for maximum elimination of structural noise.

**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 0.397W/m²·°C.

**Door Construction** – IAC Noise-lock®, flush fitting, cam lift swing doors with twin magnetic seals and pull handles shall be provided with a clear opening of 838mm wide x 1857mm high. The door leaf shall be fabricated from 1.6mm thick steel on the outer and inner face and 1.6mm framing and reinforcing sections.

**Wall & Roof Panel 'H' Joiners** – Wall and roof panels shall be acoustically and structurally joined together by IAC 'H' joiners, constructed from 0.9mm steel shall maintain the acoustic integrity of the booth.

**Window Construction** – Windows shall be 750mm x 600mm (sizes may vary in some orientations), consisting of two double glazed assemblies, using 6.0mm thick laminated safety glass, with 'pressure-sealed' aluminium trim frame.

**Jack Panel** – Jack panel comprising of nine 6.4mm three-pole jack sockets and one Type A USB connector shall be provided below the window. The panel shall be designed and installed to preserve the acoustic integrity of the booth.

**Electrical** – All booths are provided with lighting operated from an adjacent switch. A separate switch will control the ventilation system. Power operation 240 volt, 50Hz. (All cable supplied by others).

**Ventilation** – All models shall have the ventilation system roof or wall mounted and be operated in conjunction with special ventilation panels. A further 370mm should be added to the height, width or depth of the booth, depending on the location of the system.

**Finish** – All booths are supplied in a factory finish polyester powder coated condition. Colour: RAL 9002 (grey/white). All floors are covered in an anti-static carpet, colour: Light blue.

### Optional Extras (additional costs apply)

- Acoustic double glazed vision panel within door (150mm x 600mm high)
- Emergency light pack
- Internal power sockets
- RF 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
- Additional colour options are available for all panels and doors



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IAC has worldwide offices and manufacturing plants in the UK, Australia, Canada, China, Malaysia, Indonesia, Thailand, Philippines Denmark, France, Germany, Italy, Spain, UAE - Dubai, USA Houston, USA Lincoln, USA - New York.

