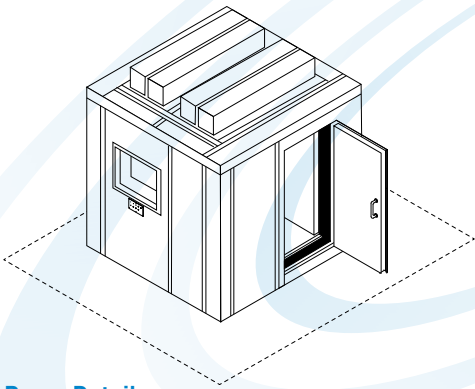


120a-Series



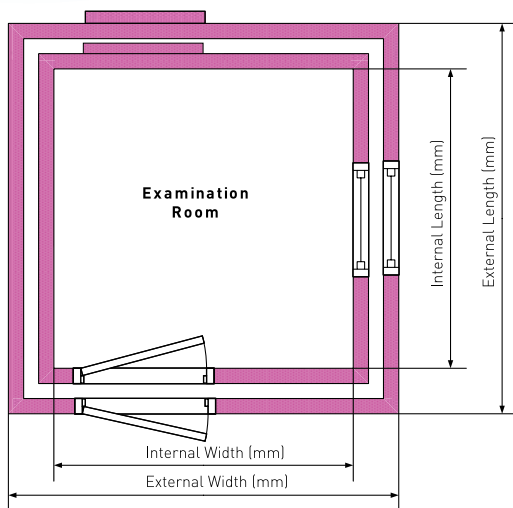
Room Details

The IAC 120a-Series is a range of double-walled booths for individual or multiple occupancy.

Door opening: 760/840 mm wide x 1860 mm high

Window Clear View: 750 mm wide x 600 mm high

Ventilation: A further 380mm should be added to the height, width or length of the booth, depending on the preferred location of the ventilation system.



IAC Acoustics Standard cabins 120a-Series					
Model		Width (mm)	Length (mm)	Height (mm)	Weight approx. (kg)
120a-1	External	1,828	1,624	2,349	ca. 1,760
	Internal	1,220	1,016	1,995	
120a-2	External	2,538	2,438	2,349	ca. 3,150
	Internal	1,930	1,830	1,995	
120a-3	External	2,843	2,738	2,349	ca. 3,660
	Internal	2,235	2,130	1,995	
120a-4	External	3,348	3,148	2,349	ca. 4,500
	Internal	2,740	2,540	1,995	
120a-5	External	3,658	3,453	2,349	ca. 5,160
	Internal	3,050	2,845	1,995	



Jackpanel below window



Lighting module

Noise Reduction & Sound Absorption

Noise Reduction*: The minimum allowable noise reduction of completely assembled rooms, as tested in a recognized independent and approved laboratory, as shown in the table below.

Sound Absorption: The composite sheet metal and sound absorbing assembly shall have a sound absorption coefficient based on laboratory tests as shown in the table below.

Oktave Band Centre Frequency	63Hz	125 Hz	250 Hz	500 Hz	1,000 Hz	2,000 Hz	4,000 Hz	8,000 Hz	NIC
Noise Reduction for Double Wall Booths	37	47 dB	62 dB	80 dB	> 85 dB	91 dB	> 88 dB	> 80 dB	50
Sound Absorption Coefficient	-	0,49	0,37	0,83	0,96	0,99	1,00	-	

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.

** +/- 3 dB for field instrument accuracy.

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

Specification for IAC 120a Series Audiometric Examination & Medical Research Booths

Roof & Wall Construction: Roofs and walls are constructed from standard IAC Noise-Lock® 2 acoustic panels, 102mm thick. Average weights are no less than 50 kg/m².

Floor Construction: IAC Acousti-flote™ floors shall be 50/80 mm high and structurally reinforced. All floors are carpeted. Average weights are no less than 90 kg/m². Floors float on properly loaded vibration isolators rated for a natural frequency of 6,5–14 Hz for maximum elimination of structural noise. This enables a low-level entry, e.g using a wheelchair.

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 0.397 W/m² °C.

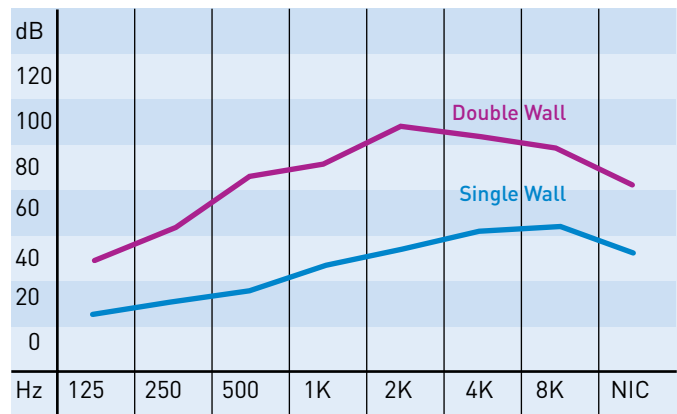
Door Construction: IAC Noise-Lock®, flush fitting doors with twin magnetic seals, special hinges and pull handles shall be provided with a clear opening of 760/840 mm wide x 1860 mm high.

Wall & Roof Panel 'H' Joiners: Wall and roof panels shall be acoustically and structurally joined together by IAC 'H' joiners, to maintain the acoustic integrity of the booth.

Window Construction: Windows shall be 760 x 610 mm (sizes may vary in some orientations), using sealed double glazed assemblies within profiled steel frames.

Jack Panel: Jack panel comprising of nine 6.3 mm three-pole jack sockets and one Type A USB connector is 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 230 volts, 50 Hz.



Octave Band Center Frequency, Hz.

(All cable supplied by others).

Ventilation: All models have the ventilation system roof or wall mounted and be operated in conjunction with special ventilation panels. A further 380 mm should be added to the height, width or length of the booth, depending on the location of the system. All IAC booths equipped with a ventilation system should be installed in rooms with sufficient ventilation.

Finish: All booths are supplied in a factory finish coated condition. Color: RAL 9010 (white). All floors are covered with an anti-static carpet, color: grey.

Optional Extras (additional costs apply)

- Acoustic double glazed vision panel within door (300 mm x 915 mm high)
- Emergency light pack
- Internal power sockets
- RF and electromagnetic shielding
- Fabric covering to internal walls
- Special connection panels, cut-door
- Increased clear opening width doors (where possible)
- Additional colour options are available for all panels and doors
- Power filters