



**TITLE: NOTTINGHAM CHILDREN'S HEARING ASSESSMENT CENTRE**

IAC Bulletin MED/05.00

**IAC EQUIPMENT SUPPLIED:**

18 High Performance Audiology Rooms

These pictures show a special paediatric audiology room, used for testing the hearing of children aged 0-16 years at the *Nottingham Children's Hearing Assessment Centre*. The room is just one of eighteen supplied by IAC to create one of the largest audiology facilities in the UK. Several of the rooms are also exceptional in technical terms; they have been constructed using triple walls (creating a room, within a room, within a room). This has the effect of increasing their acoustic performance to unprecedented levels, ambient noise levels within the rooms being as much as 10dB below the level set by the demanding ISO 8253 standard.

The 18 audiology rooms are spread over three floors in a building in Nottingham city centre. They range in size from a small booth - with a floor area of just 2.5m<sup>2</sup> - to rooms measuring 4.4 metres x 6.7 metres (30m<sup>2</sup>). All of the rooms have the same basic construction elements - walls, ceilings and floors built from modular steel acoustic panels from IAC's Moduline® range - into which high-performance acoustic doors and windows have been incorporated. All of the inner rooms have concrete floating floors.

IAC completed the installation of all 18 rooms in less than 10 weeks. In addition to building the main structures, IAC was responsible for all interior decoration, fabric wall coverings, false ceilings and carpets. IAC Quiet-Duct® silencers were also used to reduce air conditioning noise emissions to below ambient room levels.



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