

A Premises **Noise Management Plan** shall incorporate the following steps:

A. External acoustic doors:

(i) External emergency exit doors (acoustic doors) to all screen auditoria shall be of a design, mass and construction specification which prevents the transmission or leakage of airborne sound at the low, middle and high frequencies spectrum (Hz).

(ii) The acoustic doors shall be of a construction that ensures that doors and their seals retain their structural integrity, damping performance and sound insulation characteristics over time.

B. Periodic testing of sound insulation performance of external acoustic doors:

(i) At intervals of every four years, the sound insulating performance of the acoustic doors shall be tested, verified and checked by measurement.

(ii) A noise verification report shall be presented to the Council Licensing Authority of the measurement results for their approval and consideration. The Licensing Authority will determine if replacement or maintenance of acoustic doors is warranted. Acoustic doors shall be maintained in good working order.

(iii) Measurements shall involve the use of a proprietary acoustic camera, positioned externally from the acoustic door facia (i.e façade measurement) and 1.2-1.5 m above the ground. With the acoustic door in the closed position any sound leakage at either low, middle or high frequencies spectrums (Hz) will be surveyed, measured and the data presented in a noise assessment report. A continuous sound source shall be reproduced inside each screen auditorium, equivalent to the loudness and frequency spectrum of a representative cinematic action film experience. The tests shall use a constant source of reproducible reverberant sound, in third octave bands. And representative of films for their loudness, definition (clarity of sound), resonance (fullness of tone), balance, blend and echoes. All acoustic doors shall be assessed.

(iv) Personnel for sound tests: Competent persons should take the noise measurements and carry out the assessment. Guidance on what constitutes appropriate training for competency can be obtained from the Institute of Acoustics or the Association of Noise Consultants. Both bodies will provide a list of their members on request.

C. Permanent speakers:

(i) Numbers, location and mounting of permanent speakers shall be arranged so that any transmission and leakage of structure and airborne noise externally, through acoustic doors, external walls or ceiling is minimised.

D. Wall covering/surfaces:

(i) Where necessary wall surfaces within auditoria shall be covered with low frequency acoustic absorbent material and be effective at low and middle frequency spectrum range of absorption. Treatments will be dependent on the tuning of the auditoriums, with specific attention on bass response according to the outcome of the noise assessments.