

## Theatre & Cinema Projects

This is a list of some projects in the theatre and cinema sector for which Spectrum has provided acoustic consultant or noise consultancy services.

Client	Project	Description of Services
Chelsfield plc/Apollo Cinemas	Plaza redevelopment, Lower Regent Street, London	Prepare shell specification for developer. Negotiate with cinema tenant for 6 auditoria. Design measures to attenuate noise from transportation including underground trains. Design isolating structures between adjacent auditoria
City Screen	The Picture House, Mailbox Development, Birmingham	Acoustic Design of new 3-Screen high quality THX® certified theatres, in prestigious new 'Mailbox' city centre development
City Screen	The Picture House, Cambridge	Acoustic Design of new 3-Screen high quality THX® certified theatres
City Screen	The Picture House, Stratford East	Acoustic testing in THX® theatres (Ambient noise and Reverberation Times)
City Screen	The Picture House, Clapham	Acoustic design of new screen added to existing multiplex site. Recommendations made to minimise rain impact noise on roof
City Screen	Foundation for Arts and Cultural Technology (FACT), Liverpool	Reverberation modelling and design of THX® certified cinema and box art space
City Screen	The Greenwich Cinema, London	Acoustic upgrading specification for 5 screen conversion. Site testing. Sound insulation improvements. Reverberation modelling and surface treatment design. Flutter echo rectification
City Screen	Hackney Picturehouse (former Ocean development)	Background noise surveys, acoustic testing, and acoustic design of new 4-screen cinema development.
Collins Theatre Trust	Collins Theatre, Islington, London	Acoustic advice, performance specification for new 300 seat theatre. Acoustic design development, detailed design and testing
Granada TV	New TV/film Studios, Manchester	Acoustic study and preliminary design of industrial unit conversion to film studios
Horsham Borough Council	Arts Centre, Horsham	Major refurbishment and expansion of a new Arts Centre incorporating 400 seat theatre, 2 cinemas, dance studio and other performance spaces. Acoustic surveys, specification, design and completion testing
Odeon Cinemas	Sound Leakage Study – Phase 1	On typical older estate theatres converted into multi screens (1970's/1980's). Correlate sound levels leaking into adjacent theatres (during loud films), with results of questionnaire

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Odeon Cinemas	Sound Leakage Study – Phase 2	Design and testing of anti-vibration platforms for stage, sub-bass and surround speakers to reduce structural sound transmission and acoustic coupling effects. Detailed acoustic design of standardised sound insulation improvements for implementation in phases across the complete Odeon Estate
Odeon Cinemas	Sound Absorption and Reverberation Control Study	Investigation into the benefits of introducing sound absorption and reverberation control on audibility, sound quality, sound levels and leakage to adjoining screens
Odeon Cinemas	Acoustic Audits completed to date at the following sites: Colchester, Streatham, Manchester, Chester, Portsmouth, Wimbledon, Ayr, Nottingham, Kensington	Ambient noise survey, sound leakage tests, outline recommendations at each site – as part of the Upgrade Programme to Dolby Digital Sound
Odeon Cinemas	Kensington, London	Design and project manage the installation of a 30 x 8m sound absorbent and insulating acoustic drape behind Screen 1
Stevenage Borough Council	Gordon Craig Theatre, Stevenage	Acoustic testing, modelling and specification of interior treatments and electronic sound enhancements as part of refurbishment project. Noise study and recommendations for ventilation system
Theatretech	Product development	Study to reduce noise from a DC motor driven stage lift
Warner Cinemas	Leatherhead	Preliminary acoustic advice on sound insulation and shell specification