

Robin Mackenzie Partnership

Excellence in Acoustics, Vibration & Energy

Cinemas

RMP
Est. 1969
acoustics energy vibration

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Cameo Cinema, Edinburgh
Client: Picturehouse Cinemas
Image Courtesy of: Scott Louden Photography

cineworld CINEMAS

VUE

Picture house

ODEON FANATICAL ABOUT FILM

WARNER VILLAGE CINEMAS

Robin Mackenzie Partnership Company Brochure

Founded in 1969, the Robin Mackenzie Partnership is one of the UK's largest acoustic consultancies and a leader in its field. Here at RMP we consistently deliver innovative acoustic solutions which our clients value as both robust and cost effective.

Our company brochure gives an insight into the practice and presents examples of developments on which we are proud to have provided Environmental Noise and Vibration assessments.

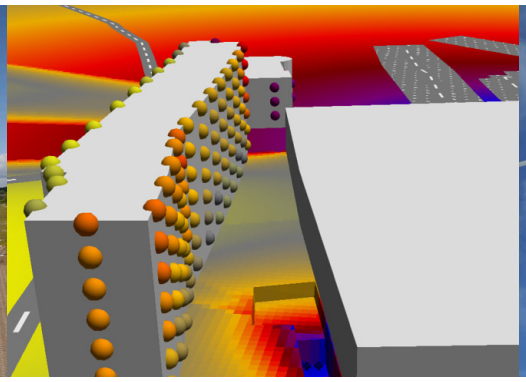
RMP also provides:

- Building acoustic design
- Environmental and industrial noise control
- ANC accredited sound insulation testing
- Elmhurst Energy accredited air tightness testing
- Infra-red thermography
- Noise mapping
- Vibration control
- CPD training
- Product development
- Design animation
- Acoustic research

Our dedicated team delivers a high quality client-focused service at a reasonable cost. All RMP consultants are full members of the Institute of Acoustics while our directors hold fellowship status. RMP test engineers are accredited by the Association of Noise Consultants and the Elmhurst Airtightness Testing Scheme (EAS).

The practice has a very low turnover of staff which ensures consistency throughout major long-term projects.

RMP operates from offices throughout the United Kingdom undertaking projects of all sizes, many of national significance. Our research work is internationally recognised and has helped formulate national building regulations. Our client database includes the UK's leading construction companies, architects, product manufacturers, trade bodies and public sector bodies.


Acoustic design of cinema projects

Whilst in most projects acoustic design plays a supporting role to the structural and aesthetic design, within cinemas the acoustic design is often at the forefront. RMP Acoustic Consultants have extensive experience in working on all types of cinemas.

Achieving a high level of sound insulation within cinemas from the external environment and adjacent uses is very important to cinema operators to ensure that their customers get an uninterrupted viewing experience.

We are happy to advise on the refurbishment of existing buildings or new buildings from traditional or modern construction methods.

Acoustic consultancy for cinemas relates to three main areas:

- Undertaking site noise surveys for your planning application and facade designs.
- Providing design advice for party wall and floors, building services and reverberation time.
- Undertaking testing to comply with any conditions directly imposed by the cinema chains standards

Our areas of expertise include:

- Strong positive working relationship with the project team
- Advising on appropriate noise levels and reverberation times for various activities and room types
- Offering guidance on different criteria and design aspects
- Advising on façade design to provide adequate sound insulation and ventilation
- Offering guidance on the control of plant noise and vibration
- Providing specifications of the acoustic performance of doors, walls and glazed panels
- Zoning 'quiet' and 'noisy' spaces and separating them where possible by distance and 'buffer' spaces such as corridors
- Undertaking compliance testing measurements of ambient noise levels, sound insulation and reverberation time
- internal acoustic design utilising some of the latest computer modelling software such as Odeon, CadnA and Insul.

PROJECT: **Vue Cinema, Edinburgh Omni Centre**
CLIENT: **Omni Centre**
ARCHITECT: **Allan Murray Architects**
OUR ROLE: RMP provided the full range of acoustic consultancy services throughout the project of the construction of a 12-screen multiplex cinema complex within Edinburgh's World Heritage Site at the landmark £75m mixed-use development at the Omni Centre, Greenside Place in Edinburgh's city centre. Facilitated compliance with relevant standards and Vue cinema design requirements.



Image Courtesy of the Omni Centre

Cinema projects



Image Courtesy of Graham Construction

PROFILE: **Cineworld Cinema Silverburn, Glasgow**
CLIENT: **Graham Construction Ltd**
ARCHITECT: **BDP Architects**
OUR ROLE: RMP provided the full range of acoustic consultancy services throughout the project of the construction on the first floor level of a 14-screen multiplex cinema complex and new restaurants, general retail units and a Gala Bingo hall constructed on the ground floor within the Silverburn centre in Glasgow.
The cinema is unique as it has the first ever Superscreen in Scotland which includes incredible multidimensional sound with Dolby Atmos, powered by 27 amplifiers. Facilitated compliance with relevant standards and Cine-Ltd cinema design requirements.

PROJECT: **Vue Cinema Fort, Glasgow**
CLIENT: **British Land**
ARCHITECT: **Cooper Cromar Architects**
OUR ROLE: RMP provided the full range of acoustic consultancy services throughout the project of the construction of an 8-screen multiplex cinema built over restaurant and retail outlets. Facilitated compliance with relevant standards and Vue cinema design requirements.



Image Courtesy of British Land

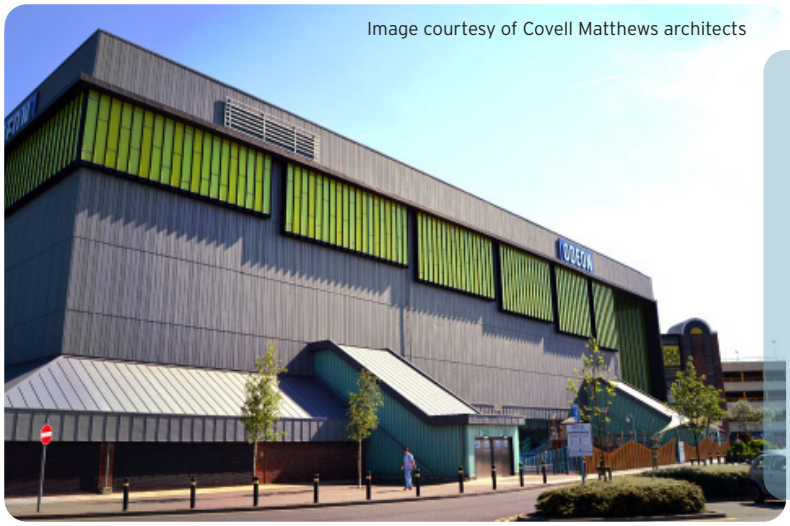


Image courtesy of Covell Matthews architects

PROFILE: **Odeon Cinema, Metroland**
CLIENT: **Sir Robert McAlpine**
ARCHITECT: **Covell Matthews**
OUR ROLE: RMP provided the full range of acoustic consultancy services throughout the project of the construction of a 12-screen multiplex cinema complex within the MetroCentre shopping centre and for the refurbishment of the existing bowling alley underneath the cinema to form a unit incorporating new bowling lanes and two restaurants. Facilitated compliance with relevant standards and Odeon cinema design requirements.

PROFILE: **Cameo Cinema, Edinburgh**
CLIENT: **Picturehouses Ltd**
ARCHITECT: **Dignan, Read & Dewar Architects**
OUR ROLE: RMP have provided the iconic listed building with acoustic consultancy services for many years including sound test measurements between the existing bar and proposed bar area and the residential property above so as to advise on whether the construction would need to be modified to contain the noise. We also provided acoustic design solutions to ensure compliance with building regulations when the premises was expanded by the creation of two new studio cinemas formed from adjoining properties in the residential block.



Image Courtesy Scott Louden Photography



PROFILE: **VUE Cinema, Aberdeen**
CLIENT: **VUE Cinema**
OUR ROLE: RMP provided the full range of acoustic consultancy services throughout the project of the redevelopment of a 7-screen multiplex cinema. Facilitated compliance with relevant standards and Vue cinema design requirements.

PROJECT: **Warner Village Cinema, Belfast (Odyssey)**
CLIENT: **Warner Brothers**
OUR ROLE: RMP were commissioned to undertake an acoustic assessment of the noise emanating from the adjacent cinema and nightclub at the Odyssey Complex, Belfast, and provided recommendations to establish a maximum music noise level in order to maintain Warner Brothers' design requirements.



Consulting services

We provide a wide range of acoustic consultancy services, using state of the art measuring equipment and computer software. Our highly qualified consultants guarantee a service of exceptional quality.

Sound Insulation - Testing and Diagnostics

RMP were one of the first companies in the UK to undertake sound insulation testing back in the late 1960's. Over the years we have built up an unrivalled wealth of experience in sound insulation and building acoustic design. We draw upon this experience when providing acoustical services for the refurbishment of existing buildings or the design of new buildings. As a result, our expertise in this area is now internationally recognised. Our staff have provided research guidance and technical support to government institutions and organisations from the UK to New Zealand.

RMP is registered on the Association of Noise Consultants Acoustic Tester scheme. This accredits RMP to undertake sound insulation testing for all building types and acoustic standards throughout the UK.

The practice also specialises in the assessment of acoustic defects, providing invaluable advice to clients who require to remedy complex acoustic insulation problems which can occur in new build developments, refurbishment projects or in response to resident complaints.

We consider the provision of good, economical and practical design advice to be our business. This is why we provide technical guidance and recommendations, when needed, as part of our core service.

Areas of expertise:

- Sound insulation testing on site (airborne and impact) - BS EN ISO 140, ANC registered, Robust Details inspectors, IOA Good Practice
- Schools - BB93
- Offices - BCO, BREEAM
- Hotels - Operator Brand standards
- Environmental Rating Schemes - BREEAM, Section 7, Homes Quality Mark
- Hospitals - HTM08-01, SHTM08-0
- Residential - Testing to Part E England and Wales
- Residential - Testing to Section 5 Scotland
- Cinemas and Entertainment Venues including Pubs and Clubs

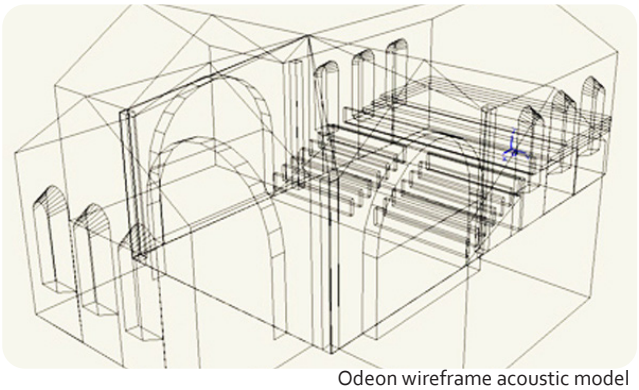




Building Acoustics

More than just auditoria and concert halls, RMP help curate the ambiance within all of our new and existing built environment projects.

Our testing service ranges from small developer buildings and flat refurbishments through to multimillion pound residential flagship developments such as Quartermile in Edinburgh and the Great Northern Tower, Manchester.



Odeon wireframe acoustic model

Environmental Noise

With a pragmatic approach to impact assessment and mitigation provision, we balance the right for quiet spaces against the need for development. We carry out environmental impact noise assessments in support of planning applications, pollution control and in response to noise abatement notices.





Vibration

RMP can provide vibration isolation design advice for building isolation and internal acoustic design projects, supported with a range of vibration measurement methodologies and equipment. Our comprehensive engineering advice on problem resolution takes into account the long-term structural integrity and enhanced engineering performance.



Air Tightness Testing

Air tightness testing is increasingly being requested by private developers, housing associations and social landlords, as a means of checking the energy performance and workmanship of dwellings. Unwanted air infiltration can account for up to 20% of a building's heat loss and reduces occupant comfort via draughts.



RMP provide a 'one-stop' consultancy service for both sound insulation and air tightness, simplifying the design and completion phases of a project.

We carry out air tightness testing for the domestic market using Elmhurst Airtightness Testing Scheme (EAS) accredited testers required for Part L1 England and Wales Building Regulations compliance testing. We also undertake commercial air tightness testing (volume dependant) and provide consultancy advice on design and detailing. The tests are conducted to the Air Tightness Testing Measurement Association's Technical Standard 1 (ATTMA TS1).



Areas of expertise:

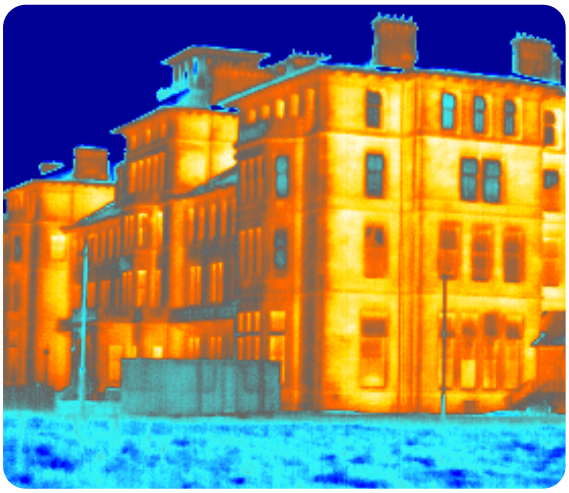
- EAS accredited domestic air tightness testing to ATTMA TS1 requirements
- Part L complaint testing for the England and Wales Building Regulations
- Section 6, Energy, complaint testing for the Scottish Domestic Technical Standards
- Commercial air tightness testing
- Building fabric systems in relation to air tightness
- Design, detailing and construction consultancy services for air tightness
- Pressure loss diagnosis using building smoke testing and thermography



Infra-red thermography

Thermal imaging (or infra-red imaging) captures thousands of surface temperature measurements and converts them into an image. The service can identify air leakages, badly insulated areas and other construction problems. Therefore, it is often complimentary to air tightness testing. Thermal imaging has a wide range of applications in the building industry.

RMP operates a range of thermal imaging infra-red cameras to support our professional diagnostic services, software and detailed reporting. Our experience spans a wide range of activities.



Areas of expertise:

- Infra-red imaging of domestic dwelling
- Complex detailing of building envelope
- Evaluation of process energy system
- Diagnosis of building envelope defects
- Diagnosis of building pathology
- Assessments of energy heat loss

RMP is part of Edinburgh Napier University, bringing together a wide range of specialist expertise in construction innovation.

Our dedicated team delivers a high quality client-focused service at a reasonable cost.

Find out more about us: https://rmp.biz/about-us/

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ANC Acoustics & Noise Consultants Acoustic Awards 2024 AWARD WINNER

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Acclaim Accreditation

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