

# 1 OUR EXPERIENCE

We have provided below a summary of UK and international relevant experience in providing acoustic consultancy services for retail and leisure schemes. For these schemes and others, Graham and Martin have gained experience in the acoustic design for a wide range of cinema tenants as listed below:

- ODEON UK
- The Light
- National Amusements (Showcase)
- VOX Cinemas
- Cineworld
- Everyman
- Vue Cinemas

## Houndshill Shopping Centre Extension, Blackpool



<b>LOCATION</b>	<b>BLACKPOOL, UK</b>
Client	BM Associates
Project Value	£12m
From - To	2017 - present

*Project Overview*

The project involves the extension of the existing Houndshill Shopping Centre in the centre of Blackpool for a new 3 storey structure on the existing Tower Street car park site located within the primary retail district of Blackpool town centre. The development will accommodate a Wilko anchor unit on the ground floor along with two A3 units, and a 9-screen cinema on the floors above to be occupied by the operator The Light.

## Thorpe Park, Leeds



<b>LOCATION</b>	<b>LEEDS, UK</b>
Client	GMI Construction
Project Value	£162m
From - To	2014 - present

*Project Overview*

Peer review of concept design by others followed on by lead consultant for detailed design, design progression, site inspections and testing for a ten screen cinema for Odeon within a mixed use development (service yard, restaurants, retail units, gym etc).

## White Rose Centre Extension, Leeds



### LOCATION LEEDS, UK

Client Morgan Sindall

Project Value £30m

From - To 2016 - 2017

#### Project Overview

A major leisure led extension to the existing White Rose Shopping Centre including a CineWorld 11 screen cinema (including IMAX) and six national chain restaurants, together with associated public realm works.

Graham provided detailed design acoustic consultancy services for this scheme. The acoustic challenges were the 'new' concourse design (whereby a continuous structure was required between auditoria) and acoustic testing of a bespoke lightweight acoustic roof system.

Detailed support was provided to the on-site construction team who had never built a multi-screen cinema scheme before. The scheme recently passed the acoustic commissioning testing, including the demanding requirements for the IMAX auditoria.



## Mall of Egypt, Cairo

Location Cairo, Egypt

Client Majid Al Futtaim

Project Value \$490m

From - To 2011 - 2017

#### Project Overview

The Mall of Egypt is one of North Africa's largest shopping centres, a 190,000m<sup>2</sup> complex comprising an indoor skiing facility, a 160,000 square metre mall with 350 stores, a 17-screen cinema complex, Magic Planet, an outdoor plaza and dining facilities.

Martin provided detailed design acoustic consultancy services for this scheme. Services were provided on the wider scheme up to scheme design, and our services were retained for the complex cinema auditoria element up to practical completion.

Particular acoustic challenges on this scheme were in relation to the cinema auditoria (VOX Cinemas), including separation between the adjacent family leisure area. Control of noise and vibration from the main energy centre serving the development was also a key acoustic challenge.

## Millburngate, Durham



Location	Durham, UK
Client	Carillion / Arlington
Project Value	£150 million
From - To	2015 - 2017

### *Project Overview*

The scheme includes approx. 50,000 sq ft of active restaurant and cinema space within a mixed use development including A3 uses, offices, apartments and circa 300 PRS residential units, with basement car parking zones beneath.

The cinema element will be delivered in the main by the landlord with only final fit-out and furnishings by cinema operator.

The acoustic challenge for the project was ensuring suitable design input at early stages and thorough review of the cinema operator's requirements (Everyman Cinemas) in order to ensure the base build was capable of meeting the challenging requirements.

## Highcross Leicester



Location	Leicester, UK
Client	Hammerson
Project Value	£350mm
From - To	2004 - 2008

### *Project Overview*

Highcross Leicester is a retail-led, mixed use extension to the Shires shopping centre in Leicester. The scheme was completed in 2008 and contains over 120 retail units including House of Fraser, Debenhams and John Lewis anchor stores, as well as significant leisure use including 15 restaurants / cafés, and a multiplex cinema.

The scheme comprised the refurbishment of the existing 500,000 sq ft shopping centre, new extension of a further 550,000 sq ft, new 220,000 sq ft department store, 10 screen cinema, 118 residential apartments, and a multi-storey car park for 2000 car parking spaces.

Significant challenges included isolating internal noise & vibration transfer through the building structure, particularly for vibration between car park access ramps & adjacent dwellings. Acoustic design of the multiplex cinema (National Amusements) was also a challenge, given the service yard was located immediately adjacent.

The Client engaged a number of architects to bring different style and character to the various elements of the scheme. The team needed to respond to each architect as leader of their element.

## Meadowhall, Sheffield



Location	Sheffield, UK
Client	British Land
Project Value	£50m
From - To	2014 - 2017

### *Project Overview*

The project involves the refurbishment of the existing Meadowhall shopping centre. The plan is to double height shop fronts for some stores that create additional retail space. This will be achieved by moving major service gantries away from their current location above shops into the roof without compromising fire escapes. In addition, existing ventilation is being removed so that the mall is naturally ventilated for both fresh air and smoke ventilation, saving energy costs.

The scheme comprises 310 shops, 50 restaurants and cafes and a multi-screen cinema (Vue Cinemas).

Particular challenges include the separation between refurbished retail units by the introduction of mezzanine floors and the acoustic separation between leisure uses.