

## Curriculum Vitae



Graham Hornby  
Director, Acoustics

Qualifications: BSc (Hons), MIOA

## Career Summary

Graham joined MZA as a Director of Acoustics in 2017, having worked as a Technical Director with a global multidisciplinary consultant since 2015. He has also spent three years working as Team Leader of Specialisms for another global multidisciplinary consultant in Australia.

Graham is an acoustic engineer with over fifteen years experience in the field of acoustics, gained on a variety architectural, environmental and building commissions. These cover a wide range of projects and clients, including industrial, commercial residential and education sectors.

Graham has experience of managing a team of consultants and project management of large and small projects in Australia, UK, US, Dubai, Qatar, Libya and across Europe.

Although Graham has broad experience in all aspects of acoustics noise and vibration, he specialises in architectural, building services and room acoustics. In particular, Martin specialises in the detailed acoustic design of large infrastructure related property and large urban mixed use schemes. Other specialities include Approved Document E of the Building Regulations 'Resistance to the Passage of Sound' and the acoustic design of education and healthcare facilities.

- Over seventeen years' experience in acoustics, noise & vibration consultancy, both in the UK and overseas.
- Experience in architectural & room acoustics and building services noise and vibration control.
- Experience in acoustic design of large infrastructure related property and urban mixed use regeneration schemes. Speciality in acoustic design of residential schemes, education and healthcare facilities.
- Strong project management, including client communication, financial and commercial control and reporting.
- Strong commercial awareness
- Able to act as an expert Witness

## URBAN REGENERATION & MIXED USE

### *The Haymarket, Edinburgh, Scotland (2014 - 2017):*

Lead acoustic engineer for a new build development of 5 buildings with basement parking beneath. The development comprises; 340,000sq ft of office space in 3 of the buildings contain spread over 20 floors, 49,000 sq ft of retail / leisure space, a 163 bed apart-hotel, a 190 bed hotel, an underground car park and new public realm. The site is built directly above two railway tunnels serving both passenger and freight between Edinburgh Waverley and Edinburgh Haymarket stations and as such detailed vibration measurements and vibration isolation mitigation has been employed, involving whole building isolation systems for the majority of the development.

**Client:** Interserve / Tiger Developments

**Construction Value:** £200m

### *Millburngate Redevelopment, Durham, (2015 - 2017):*

Lead acoustic engineer for a major regeneration project in Durham comprising the relocation of the former Passport Office and NS&I offices into new build office development called 'Freemans Reach' and the subsequent mixed use development for the former city centre, riverside site. The new masterplan comprises an Everyman multi screen cinema, numerous restaurant / A3 uses, PRS accommodation, a hotel, private residential apartments, basement service yard / parking, offices and potentially the new Durham County Council headquarters.

**Client:** CARD (Carillion, Arlington Real Estate and Richardsons Capital LLP)

**Construction Value:** £160m+

### *Old Treasury Tower, Perth, Australia (2011 - 2013):*

Lead acoustic engineer for a new build 34 storey commercial tower in Perth's CBD which included acoustic and vibration isolation of 2 trigen and a further diesel standby generator on Level 18. The scheme included a standalone 5 storey building with a swimming pool and gym on the upper floor for the adjacent 6 star heritage hotel complex.

**Client:** Mirvac

**Construction Value:** AUD\$210m

### *Sevenstone, Sheffield, UK (2008)*

Lead acoustic consultant providing full environmental, architectural and building services acoustics design for a £500million scheme to redevelop a large area of Sheffield City Centre comprising 7 blocks of retail, commercial, boutique hotel and residential development.

**Client:** Hammerson

**Construction Value:** £500m

### *Caspian Waterfront, Baku, Azerbaijan (2015-2016)*

Acoustic Consultancy services provided to Pasha Construction for the in the acoustic design of a mixed use leisure destination complex, including; multi screen cinema, bowling alley, indoor sky diving centre, kidzania, Olympic spec ice rink, adrenaline ride, food court etc.

**Client:** Pasha Construction

## RESIDENTIAL

### *20 Grosvenor Square, London (Ongoing)*

Full architectural and building services acoustic consultancy services for the re-development of a former US Naval Headquarters at 20 Grosvenor Square. The scheme involves demolition of the existing structure with retained listed status façade and provision of high end prime accommodation comprising 27 residential apartments with underground parking, spa, swimming pool and gymnasium facilities.

Due to the presence of Crossrail tunnels beneath the building is to be isolated with the exception of the retained façade.

**Client:** Finchatton  
**Construction Value:** £250m

### *X1 Media City, Salford (Ongoing)*

Currently providing planning and architectural acoustic design input for three hi-rise towers in Salford Quays Media City area, immediately adjacent to the Metro tram system. The assessment of noise and vibration from the Metro was a fundamental part of the acoustic works.

**Client:** X1 / Vermont Construction  
**Construction Value:** £200m

### *Jacksons Row / St Michaels, Manchester (Ongoing)*

Currently providing planning and architectural acoustic design input for the 21 and 31 storey mixed-use towers surrounded by public spaces. The scheme is the brain child of former footballer Gary Neville and includes; Hotel, residential, offices, synagogue, A3 and public realm spaces.

**Client:** BCEGI  
**Construction Value:** £200m

### *Jumeriah Garden City, Dubai, UAE (2009)*

Provided architectural and building services acoustics advice in relation to 2 plots for residential developments in the heart of the Jumeriah Garden City masterplan..

**Client:** Meraas

## HOTEL

### *Hotel La Tour, Birmingham, UK (2014)*

Provision of acoustic design services for a new-build hotel with restaurant and extensive conferencing facilities in Birmingham City Centre, to be constructed using pre-cast modular panels. Two stage design and build contract, where detailed input was provided during the initial design phase and were subsequently appointed by the D&B contractor through detailed design and construction.

**Client:** Hotel La Tour / Galliford Try  
**Construction Value:** £20m

### *Premier Inn, Torphichen Street, Edinburgh (2013)*

Acoustic consultancy services to the design and build contractor for a new build hotel in Edinburgh City Centre to meet the onerous acoustic requirements of Premier Inn. The basement is less than 6 m from two active mainline railway tunnels carry both passenger and freight traffic, requiring a mix of whole building isolation and room-in-a-room constructions to adequately control structure borne reradiated noise levels.

**Client:** Pasha Construction  
**Construction Value:** £90m

### *The Haymarket, Edinburgh, Scotland (2014 - 2017):*

Lead acoustic engineer for a new build development of 5 buildings with basement parking beneath. The development included a 163 bed apart-hotel and a 190 bed hotel. The site is built directly above two railway tunnels serving both passenger and freight between Edinburgh Waverley and Edinburgh Haymarket stations and as such detailed vibration measurements and vibration isolation mitigation has been employed, involving whole building isolation systems for the two hotels. One of the hotels was designed using a lightweight SFS system, and a detailed peer review of similar developments elsewhere was undertaken on the contractors behalf.

**Client:** Interserve / Tiger Developments  
**Construction Value:** £200m

### *Millburngate Redevelopment, Durham, (2015 - 2017):*

Lead acoustic engineer for a major regeneration project in Durham including a market leading hotel chain with exacting acoustic requirements. Concept stage design input has been provided in order to demonstrate suitability of the site for the development as well as planning reporting etc.

**Client:** CARD (Carillion, Arlington Real Estate and Richardsons Capital LLP)  
**Construction Value:** £160m+

### *Premier Inn, Trafford Park, Manchester (2007)*

Provided detailed acoustic advice in relation to the use of the Verbus (shipping container) construction for a hotel extension in Manchester. Advice included sound insulation between unit, external noise break-in and vibration isolation of roof mounted plant mounted above bedroom pods.

## RETAIL

### *Caspian Waterfront, Baku, Azerbaijan (2015-2016)*

Acoustic Consultancy services provided to Pasha Construction for the in the acoustic design of a mixed use leisure destination complex, including; multi screen cinema, bowling alley, indoor sky diving centre, kidzania, Olympic spec ice rink, adrenaline ride, food court, 3 levels of retail units etc.

**Client:** Pasha Construction

### *Thorpe Park, Leeds, UK (Ongoing)*

Recently appointed to provide specialist acoustic input for the leisure aspects of the development including a 9-screen cinema for Odeon. Detailing input includes peer review of early designs, including recommendations for adaptations to structural solutions, floating floors, auditorium seating and acoustic breaks in order to ensure the acoustic criteria for the shell and core can be achieved within a tight cost plan.

**Client:** GMI Construction  
**Construction Value:** £100m

### *White Rose Shopping Centre, Leisure Development (2016-17)*

Provision of architectural acoustic design for a new build extension to the existing shopping centre including 6 restaurant units and an 11 screen cinema development including IMAX. The project involved detailed support through the bid / tender stages to support budget costings and ongoing support all through construction through to completion testing and handover.

**Client:** Morgan Sindall Construction  
**Construction Value:** £30m

### *Trinity Leeds, UK (2008-11)*

Provided architectural and building services acoustic design services on a major (£590M) redevelopment of Leeds City Centre containing 120 retail units.

**Client:** Land Securities  
**Construction Value:** £590m

### *Westhill Shopping Mall, Ploiesti (Romania) (2009):*

Provided architectural and building services acoustic design services to a multi-disciplinary team in the UK for the design of a new shopping mall, transport interchange and offices development in Romania.

### *Kwinana Hub Shopping Centre, Perth, Australia (2010-11);*

Provided acoustic design advice for the developer undertaking a major refurbishment and extension to an existing shopping centre in Kwinana.

### *Alta Shopping Centre, Sarajevo (Bosnia) (2009):*

Provided ad-hoc architectural and building services acoustic design services for a new shopping mall in Sarajevo, Bosnia. The scheme includes retail, leisure and catering establishments.