

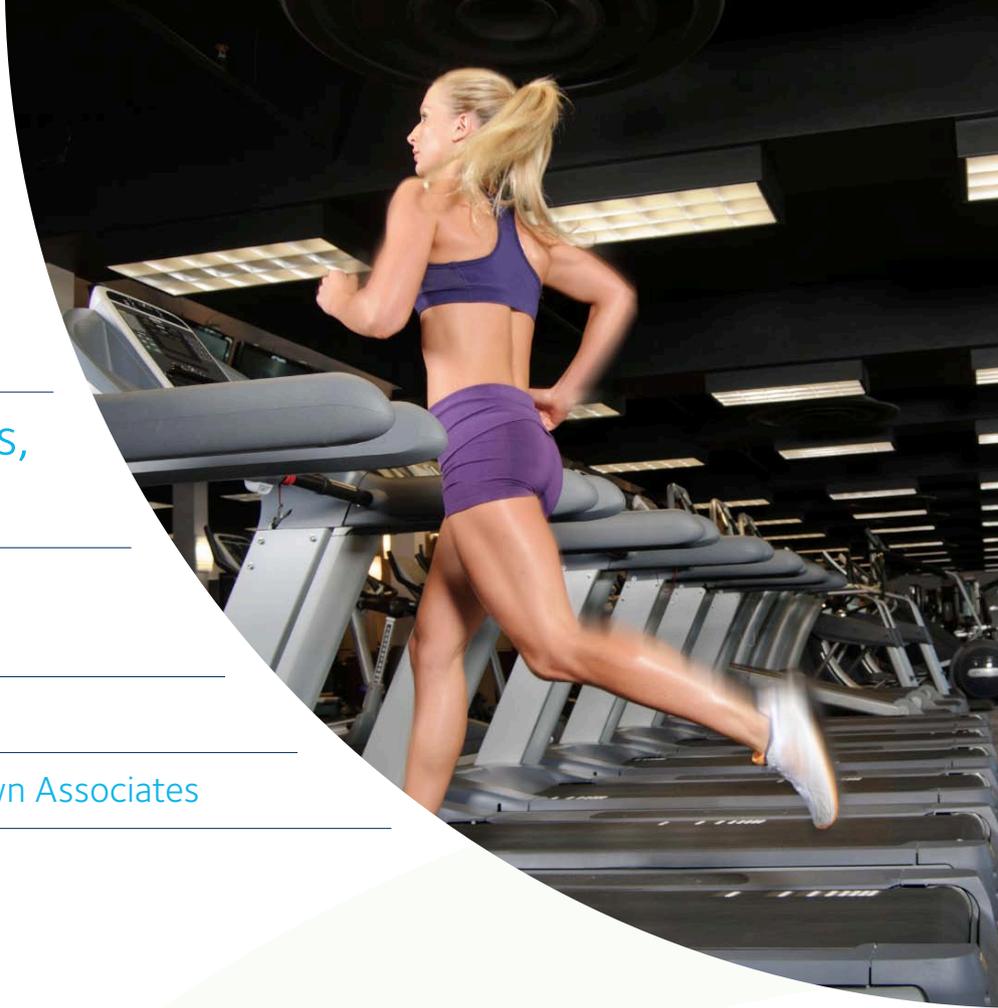


## Pure Gym Spinningfields, Manchester

Main Contractor:  
McLaren Construction

Architect: Sheppard Robson

Acoustic Consultant: Sandy Brown Associates



## Challenge

The client on this project wanted to incorporate a new gym into an impressive modern office building at the heart of Manchester's new Spinningfields Business District. To do this they had to create a new mezzanine floor level within the existing building.

In order to minimise the risk of noise and vibration transmission passing from this new floor into offices above it was decided that an acoustic floating floor would be the ideal solution. The main contractor needed a way to value engineer a jack up floating floor system for a large 1300 metre squared gym and they also required delivery and installation in very tight timescales.



The speed and precision of the design and installation process as well as the seamless service we received were a real credit to the Farrat and Acoustruct teams.

Jay Newman  
Director, McLaren Construction



# Solution



Farrat's response was to design an Floating Floor system comprising of 37mm tall Isomat Isolators, 15mm ply and a 90mm thick concrete slab. Such a system would provide a comparable performance to a jack up system (natural frequency from 15Hz down to 9Hz depending on the live loading) and since it was to be installed by Farrat's installation subsidiary AcouStruct we could fully guarantee the performance.

Farrat and AcouStruct worked intensively and in close partnership with the client to clarify and design around all details of the construction. This included a variety of issues such as protrusions through the slab, loadings, interfaces etc. Farrat then manufactured all the isolators and any other necessary items that were required within just a few days. The experienced installation team were then able to install the dry system within a few days ready for the client to pour the concrete slab.



## Key Facts

- ) 1300m<sup>2</sup> area
- ) 3710 Isomat Isolators
- ) 142mm thick system



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