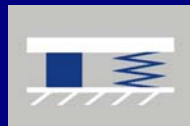


# Chapel Quarter, Nottingham



**Floating Floor**  
**CDM-ISO-LAT-SPECIAL**

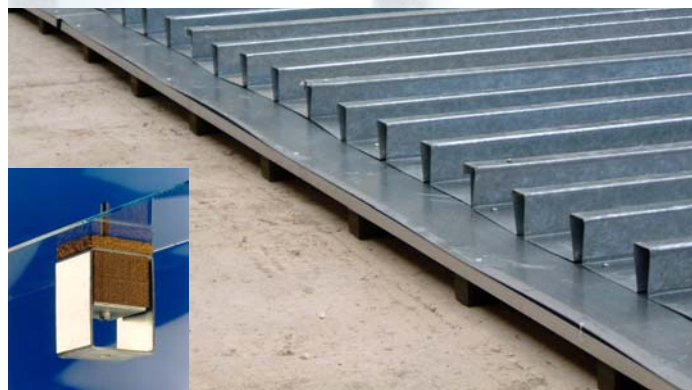


**Main Contractor** Miller  
**Architect** DLA Architecture  
**Acoustic Consultant** SRL  
**Partner** Conabeare Acoustics  
**Area** 3500m<sup>2</sup>

Chapel Quarter in Nottingham is a multi functional building with a modern hip and trendy night-club in the middle of a large hotel building. The new complex is in the heart of an already vibrant and diverse city centre and will provide an excellent location to stay or to enjoy the most up-to-date nightlife attraction.



The acoustic consultants specified that the nightclub, located in the middle of the building, should have a separate structure and that off this structure should be built massive box-in-box constructions consisting of concrete floating floors (system natural frequency less than 16Hz), dense blockwork walls built off the edge of the floating floors and resiliently hung heavy ceilings. In addition to this the hotel rooms, some less than 5m away from the main nightclub dance floor, are also built off concrete floating floors which were designed to support all of the bathroom pods and room constructions.



CDM-UK proposed the CDM-ISO-LAT-SPECIAL system which allows a 100mm concrete slab to be installed over a 50mm void giving a total depth of 150mm. The overall system performance is less than 16Hz as specified, even assuming for the full stiffness of the trapped air beneath the slab.

Stiffer bearings were located where the dense blockwork walls were going to be built.

CDM-ISO-PHS Resilient Hangers were used to hang the heavy ceiling.

Penetration details were installed for the soil pipes for the bathroom pods in each of the hotel rooms.



## CASE STUDY – CDM-ISO-FLOOR

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