

# case study

## Acoustic flooring with integral underfloor heating proves a winner

Products used: **C40 cradle & batten flooring with underfloor heating. 11,000m<sup>2</sup>**

Architects: **OMA Architects**

Main contractor: **MACE**

Flooring contractor: **InstaCoustic**

At Holland Green, a prestige residential development in West London for developers Chelsfield, all apartments have been fitted with InstaCoustic's quality acoustic flooring combined with an integral, high performance underfloor heating system.

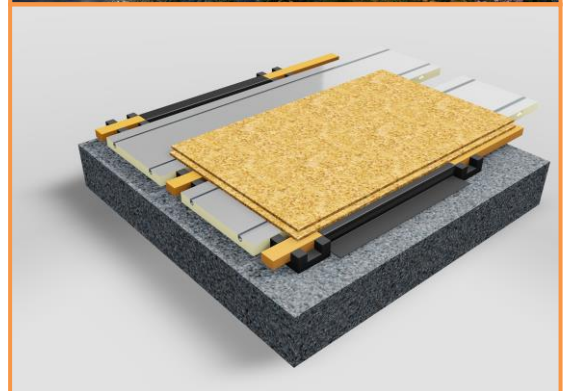
The three buildings, ranging from seven to nine storeys, are grouped around the former Commonwealth Institute exhibition hall, the proposed new home of the Design Museum. Just north of Kensington High Street, they are adjacent to Holland Park.

Throughout the 56 apartments, the adjustable C40 cradle and batten acoustic flooring system was installed and laser-levelled on site, producing a 5dB improvement over the acoustic requirements of Building Regulations. The underfloor heating's foil-faced panels, containing the heating pipes, fit between the floor's environmentally friendly rubber crumb cradles and are suspended on special acoustic rails. These ensure 100% contact with the floor board to produce more controllable and highly efficient thermal conductivity.

Additional benefits of the integrated system include:

- Removes the need for concrete screeds
- No concrete drying times or contract delays
- Reduces building weight and lorry movements
- High thermal conductivity due to suspended heating panels
- Low water temperatures and greater control to save energy
- Fast heating response times for greater efficiency
- Rubber crumb cradles have a 60 year guarantee

InstaCoustic was specified due to the excellent performance of its efficient integrated system and its complete supply and fit service, which reduced the number of contractors on site and speeded up the construction programme.



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