

case study

Excellent sound insulation achieved at new airport hotel

Products used: **C40/25 cradle & batten adjustable acoustic flooring – 4,000m²**

Owners: **Gatwick Airport Ltd & BLOC Gatwick Ltd**

Architects: **3D Reid Ltd**

Main contractor: **Vinci Construction**

A 1960's former office building at Gatwick Airport's south terminal has been completely stripped out and converted into a new five storey 245 bedroom BLOC hotel.

Among the high specifications demanded by the client were extremely good levels of sound insulation for a pleasant quiet environment for its guests, particularly important at a busy international airport. In addition, varying floor heights had to be achieved, to an exacting accuracy, throughout the building.

To meet these requirements InstaCoustic's cradle and batten high quality adjustable acoustic flooring was specified for all rooms and corridors over the four upper floors.

The recycled rubber crumb cradles were set out and the system was laser-levelled to ensure a completely level finished floor height. The battens were placed in position and acoustic insulation quilt laid between them. The 18mm chipboard was fixed to the battens and, to further assist the acoustic performance, InstaLay, our rubber crumb acoustic underlay, was installed over the chipboard.

To comply with stringent fire safety requirements, fire resistant Intubatts were also installed in the floor void at room thresholds and corridor fire doors to help prevent fire spreading.

The InstaCoustic C40 flooring was specified as it provided various benefits:

- InstaCoustic was able to demonstrate the floor's versatility, its high levels of acoustic insulation, that well exceeded the requirements of Document E, and its quality finish that met BLOC's exacting standards.
- InstaCoustic was able to identify, and overcome before installation, other possible areas of concern.
- Height adjustable on site and laser-levelled to provide a completely even floor surface throughout.
- The acoustic rubber crumb cradles' 60 year guarantee demonstrated long term performance.



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