‘Merlewood’, Grange-over-Sands, Cumbria

Products installed:
- 208 acoustic floor system – 500m²
- C40 acoustic floor system – 85m²
- AC90 acoustic ceiling system – 600m²
- Isolation Strips

Owners: Holiday Property Bond
Architects: JMP Architects
Main contractor: Globe Management Services
Flooring contractor: Ace Joinery
Ceiling contractor: Lancashire Dry Lining

Merlewood, originally built as a private residence in 1853, is a Grade II listed building. In 2011 it was purchased and underwent refurbishment and conversion into holiday apartments and a leisure centre. Phase 2 of the development, comprising 46 new build apartments, is opening in 2012.

For the initial conversion, InstaCoustic sound insulation systems were installed and proved so successful that they were also chosen for use in the Phase 2 constructions. InstaCoustic floor and ceiling systems were specified as they provided various benefits:

- High levels of acoustic performance - 7dB better than Building Regulations requirements was demanded and 56dB D'nT,w+C't was achieved for airborne noise transmission. This is 13dB better than Building Regs.
- Slim floating floors could be supplied, stairs could be treated and the on-site adjustable C40 system could overcome areas of uneven subfloor.
- Proof of performance was available from field test results obtained from similar constructions.

The slim 208 floor system is specifically designed to provide high levels of both airborne and impact acoustic performance in refurbishment and change of use projects. The C40 cradle and batten system can be levelled on site and was used where existing floors were uneven and in areas where deep voids of 90mm and 170mm were needed to level floors up to the existing stairs. The adjustable AC90 system was fitted to ceilings, while Isolation Strips were fitted to all new partitions and wall linings to further enhance acoustic performance.