CONVERSION, INVERESK, EAST LOTHIAN

Contractor & Developer: Gemcross Homes
Architects: Gilbert Associates

Products installed: C40 acoustic flooring system; AC90/25FP acoustic ceiling system
AS28 acoustic wall system; Isolating strip

This former nursing home near Edinburgh has been converted into luxury apartments with a very high acoustic insulation requirement. Gemcross, as with previous developments, specified that sound insulation levels must greatly exceed those demanded by Building Regulations.

Built in the early 20th century, this stone property was in a poor state of repair, particularly the existing floors. By installing a high performance C40 cradle and batten system the need for a screed was avoided and the acoustic flooring could be adjusted and levelled on site.

To ensure outstanding acoustic insulation throughout the development an adjustable AC90/25FP ceiling system with enhanced performance was installed together with a high quality AS28 wall system which could be adjusted to provide ‘true’ walls in all areas. The addition of isolating strips completed the 5,000m² of InstaCoustic systems to give exceptional sound insulation levels.

Test results were:

Airborne: Floor: 64dB $D_{nT,w} + C_{tr}$ (Building Regs. = not less than 48dB $D_{nT,w} + C_{tr}$)
Wall: 78dB $D_{nT,w} + C_{tr}$ (Building Regs. = not less than 49dB $D_{nT,w} + C_{tr}$)
Impact: Floor: 46dB $L'_{nT,w}$ (Building Regs. = not more than 65dB $L'_{nT,w}$)

CS21