

case study

THE FLOUR MILL, BERWICK-UPON-TWEED



Contractor & Developer: **G M Craig Ltd**

Products installed: **C60 acoustic flooring system**
AC90/2FP acoustic ceiling system
Isolating strip

This was a design and build conversion of a 100 years old five storey stone flour mill, plus the addition of two further adjacent three and two storey buildings, to create an impressive wharf-side development of luxury apartments.

Working closely with the developer and acoustician, test booths were constructed on site to demonstrate that the InstaCoustic systems would exceed the Building Regs. requirements for Part E. This saved the client considerable time and money as otherwise failure would have resulted, particularly as internal cast iron columns had to be left exposed. The existing floors had a double joist plus three layers of plasterboard, resulting in the highest ever pre-start C_{tr} test of 21dB.

Internal timber frames were made off-site before being fitted into the building, with the same tradesmen installing the adjustable high performance acoustic floor and ceiling systems, which produced level floors and ceilings, and isolating strips to the walls, to meet required sound insulation levels.

Test results were:

Airborne: Before - 41dB D_{nT,w}+C_{tr} After - 47dB D_{nT,w}+C_{tr} (Building Regs. = not less than 43dB D_{nT,w}+C_{tr})