

Our Ref: 21-8655 – 2 Howard Street, Reading - TN1

Syntegra Consulting's Acoustic Design Statement

This Technical Note has been produced to provide a reassurance of enhanced acoustic integrity and performance against the Building Regulations Part E *Resistance to the passage of sound* for the 2 Howard Street development (application ref. 211420).

Syntegra note that the development plans have been revised and now do not include communal areas over bedrooms. The revised floor build-up between the communal area and bedroom above now consists of:

- 2x20mm particle board flooring (chipboard);
- 200mm wooden joist with 120mm mineral wool insulation between the joists; and
- Existing lath and plaster ceiling.

Using INSUL calculation software the acoustic performance of this build-up is 50 dB R_w . This is 10 dB higher than the Building Regulations Approved Document E (ADE) requirement for internal partitions (40 dB R_w) and should therefore be seen as a more than appropriate level of sound insulation for this type of property.

David Yates BSc (Hons) MIOA
Director of Acoustics
Syntegra Consulting

Professional Statement:

David Yates is a full member of the Institute of Acoustics (MIOA) and has over ten years' experience in acoustic consultancy. David has particular expertise in environmental noise providing acoustic consultancy for residential and mixed use planning applications, plant noise and vibration, construction noise and the design of acoustic, noise and vibration control. David is also experienced in providing sound insulation testing and design advice. David is familiar with the application of all relevant standards associated with his work, including but not limited to, BS 4142, BS 8233, BS 7445, BS 6472, BS 5228, BS 140 series, BS 16283 series and BS 717 series. David manages the acoustic department and is responsible for maintaining Syntegra's ANC membership.