

Noise assessment surveys were undertaken by Adrian James Acoustics Limited (AJA) due to the proposed site being in close proximity to RAF Lakenheath.

The noise assessment surveys undertaken were to provide an outline assessment of the following:

- the potential impact of road traffic and aircraft noise affecting the proposed school
- the potential impact of noise from the school affecting the existing and proposed new residential development

A full BB93 assessment (acoustic design of schools - Performance Standards) will be undertaken during the design stage of the project to ensure compliance with BB93 and Part E of the Building Regulations.

ELEMENTAL MAKE UP

- **External Walls**
Dense masonry construction is appropriate for the external wall make up, rather than a lightweight frame with external cladding, for its ability to achieve a weighted sound reduction index of approximately Rw50.
- **Windows and Doors**
Double glazed non-opening composite aluminum and timber window units with a weighted sound reduction index of Rw39.
Double glazed external doors from classrooms would have a weighted reduction index of at least Rw35.
Free access doors would have "sound lobbies" constructed to reduce the flow of sound into the school.
- **Roof**
The roof construction would be increased in its elemental make up with the use of 150mm concrete deck to achieve a sound reduction index of approximately Rw48.
- **External Teaching**
Sound refuge huts are being proposed to key areas in the external play areas to provide mitigation from the direct noise of aircraft passing overhead. These will be constructed as well insulated timber units, large enough to provide refuge for children.