



RE:FIT Projects Tranche 1: Robinson Pool - Loft Insulation



Background to the RE:FIT programme

Bedford Borough Council is working in partnership with Mitie to install a series of energy conservation measures and renewable energy technologies in a number of Council buildings. Mitie guarantees the energy and carbon savings to be achieved over the lifetime of the energy performance contract.

One of the sites in Tranche 1 of the RE:FIT programme is Robinson Pool.

Project Details and Savings

Robinson Pool was identified as having a poor level of loft insulation. At the time Mitie surveyed the site, the temperature recorded in the loft void space above the main pool was 33°C. To improve the thermal properties of the roof void, Mitie installed 1500m² of 200mm Knauf Earthwool to cover the entire floor area of the pool loft.

Good Practice Guide (GPG312) advises that, on average, approximately 25% of heat loss occurs through the roof. Based on their investigations at Robinson Pool, Mitie calculated that 15% was being lost (given that there was some level of insulation). By insulating the roof void, there has been a reduction in heat loss. Rather than 15% of the heat being lost, only 6% is now lost following the installation.



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This project will result in an annual saving of 124,725 kWh, generating a cost saving of £3,991/annum and carbon reduction reduction of 22,899 kgCO₂ /annum.