

case study



GREYSTOKE MANOR

Ferring, Worthing

Client

Undisclosed

Building Type

Residential Care Home

Project Services

Energy Performance Certificate for entire site.



Brief

L'atelier were instructed to produce an Energy Performance Certificate for a residential care home of approx. 600 m², situated in West Sussex.

Project Description

Greystoke Manor is a complex multi-level site including a ground and first floor, some parts of the building have a second floor but this is not consistent throughout. There is also a basement but only under the main entrance lobby

Constructed in the 1880s, Greystoke Manor has undergone much extension to the outside structure. The first, in 1992, added 3 bedrooms to the ground floor, each with en-suite facilities. The second, in 1996, added a further 6 new bedrooms to the first floor, also with en-suite facilities. This made it more complicated to produce the EPC as we had to take into account the various versions of Building Regulations that had been used during the extensions.

The building was modelled in Design Builder, a piece of software designed to create an EPC based on a 3D model and survey data entered by the user. The finished product will look similar to the picture below (left). Design Builder, however, doesn't need to know of any unheated external space, for example, porches as circled below, as they have no thermal characteristics. These are therefore left out of the model but can be added as a visual representative if required. They will have no effect on the overall rating.

