

Description

- ◆ 598 student rooms arranged in a mixture of cluster flats, self-contained studio flats, studios, accessible rooms, penthouses and duplexes. On the lower levels there will be a mix of shell only retail, plant and associated student spaces, for example, main reception/communal space, and office space
- ◆ In order to meet the Exeter Council targets set out, a modular CHP plant will be installed, which will generate approximately 677MWh of renewable energy each year and serve approximately 30% of the developments total regulated heating demand.



Involvement

- ◆ Detailed Site Survey, Detailed Design and Specification of the Building Engineering Mechanical & Electrical Services
- ◆ Full and complete building engineering services design from concept through to technical design proposals, with production of specification, schedules, 2D detailed design layout drawings, schematic arrangements and 3D model
- ◆ Thermal overheating analysis to develop ventilation strategies for a densely populated space.

Benefits Delivered

- ◆ Early engagement with the BREEAM process allowing maximising realisation of BREEAM credits to work towards achieving Excellent accreditation
- ◆ Controls strategy to maximise CHP utilisation
- ◆ Working collaboratively as a part of an integrated design team providing our low carbon and building environmental expertise in order to deliver a sustainable building and realise a very good BREEAM rating demonstrating environmentally friendly options for both the design and on-going operation of the building
- ◆ Reducing future carbon emissions by an estimated 18.6%
- ◆ 3D Revit modelling of services installation
- ◆ Efficient MEP systems and controls that offer reliability and ease of maintenance.

This development is designed with the students' needs in mind to study, live and partake in university life in a safe secure environment offering all the facilities to accomplish this