RESIDENTIAL

Clifton Hill

Mixed housing Passivhaus development on the site of a former leisure centre

£12M
PROJECT COST

Description

- SDS were appointed to RIBA Stage 4 to provide new family homes, constructed to the highest quality and environmental standards to reduce energy costs at the existing 0.82ha brownfield site of the former Clifton Hill Leisure Centre; a mixed development of 44 modern houses and apartments
- Creating a well-integrated residential development for all ages to live a sustainable lifestyle in the heart of Exeter
- Working for Exeter City Living, SDS are working to boost the council's response to the city's housing needs by building and managing more and better homes, and helping to reduce pressure on the council's housing waiting list, improving the lives of residents by building homes that are low energy, healthy and climate-resilient.

Involvement

- Low Carbon strategies implemented in line with Net Zero Exeter 2030 aspiration
- Design is being developed in accordance with ECL's Environmental Factors Design Guidance
- The M&E design is integrated with the architecture to provide low energy heating and hot water via Ground Source Heat Pumps (GSHP), MVHR whole house ventilation, low energy lighting and incorporation of Building Biology recommendations
- Special studies on durability and longevity issues and the minimisation of environmental impact
- The development of specifications and drawings for all Mechanical Services including internal heating, water, above ground drainage and ventilation systems.

Benefits Delivered

- All dwellings are being designed using the Passivhaus methodology and will be Passivhaus certified, this includes external environments to be designed to Building Biology guidance including the 25 Guiding Principles and the SBM2015
- Working to Healthy Building Objectives needed to match Exeter City Living's environmental standards in terms of the technical requirements regarding energy performance, indoor environment, wellbeing and climate change adaptation that are to be met
- We are working closely with the Passivhaus and building biology consultant to incorporate the requirements into the M&E design.