

Description

- ◆ Sideshore, is a new watersports centre being developed by Grenadier. The centre forms part of wider proposals for the sea-front regeneration of the town
- ◆ The not-for-profit scheme, is located in Exmouth's seafront and as well as watersports facilities will provide a number of small shops, a cafe and a restaurant.
- ◆ Multi-million pound development with a prerequisite of design that the building is to achieve an EPC rating of A
- ◆ Primary heat source for the building are ground source heat pumps, extracting low grade renewable heat from the ground to provide space heating and hot water



Benefits Delivered

- ◆ SBEM calculations and EPC certification to prove Part L Building Regulations compliance and EPC rating of A
- ◆ The full scheme was focused on providing a low energy development resulting in a carbon footprint reduction beyond the requirements of part L Building Regulations
- ◆ A community centered development demonstrating the possibility of producing a low carbon building that can deliver for a broad range of the community without a large impact on the environment.



Involvement

- ◆ Working for the MEP contractor, SDS developed the RIBA Stage 3 performance design into a RIBA 4a detailed design for the plantroom and full fit out of the retail centre, public changing facilities and members change
- ◆ Provided a shell and core design for the restaurant and café area, with the addition of underfloor heating and provision of services for additional space heating and cooling
- ◆ Designed a bivalent heating system with ground source heat pumps designed to supply the primary load, with gas boilers capable of coming on line to meet any shortfalls at peak times
- ◆ Provided services for cooling through the use of the GSHP ground loop without refrigeration cycle.



"A new £3M Watersports Centre, built using sustainable materials and harnessing renewable energy technologies"