

Residential Development - Derwenthorpe, York



Project:

Affordable Sustainable Housing

Location:

Derwenthorpe - York

Client:

Joseph Rowntree Housing Trust

Consulting Engineer:

Alan Wood & Partners

Project Value:

£10 million – Phase 1



Description:

The Joseph Rowntree Housing Trust commissioned Alan Wood & Partners to design, detail and gain approval for the highways and drainage together with the structural design of their prestigious affordable sustainable housing development in Derwenthorpe, York.

The intention of the project is to be at the vanguard of sustainable housing development and demonstrate to housing developers the options for meeting a high rating for Sustainable Homes (code 4).

The highways are designed in accordance with Manual for Streets and adopt the relatively new approach of shared surfaces for traffic and pedestrians. This requires a

careful balance between appearance and practicality.

The drainage is designed to the latest standards of SUDS including the use of swales and attenuation ponds.

The structural design not only includes the superstructure and foundations for the innovative houses but also includes the design of the biomass fueled energy centre that provides heating to the properties.

To ascertain the efficiency of the designs and site workmanship two properties were constructed as proto-types and tested to determine the favored form of construction for the development.