Case

STUDY

TTE
Park Hill
Surface Paving

The
BACKGROUND

The Park hill flats were built in 1957 and given Grade II listing status in 1998 to encourage investors after a period of decline.

The iconic site has always left Sheffield residence split in opinion; some believe it to be a part of their heritage, while others view it as an eyesore. It wasn't until 2009 that any renovation started by developers Urban Splash.

Geosynthetics got involved in phase 3 in 2018, which was developed for student accommodation in a townhouse style.

Our Client's
REQUIREMENTS

A sustainable solution for a residential development.

Oobe created the plan layout and Geosynthetics helped with the specification to protect tree roots and design a surface paver to support fire tenders.

One of the challenges was that Park Hill is a steeply sloping site and thus the buildings vary in size from 4 – 13 storeys. So, any maintenance vehicles and fire tenders would be quite heavy with high reaching equipment. The design was originally block paving, but they wanted to look at a grass option that could support these weights.

Our Value Engineered
SOLUTION

Having worked with Fibertex for over 10 years, Geosynthetics Limited saw the need for the range to be accepted by Rail Track (now Network Rail).

GRK Civils LTD worked with Geosynthetics to find a solution which would appeal to the natural aesthetics but also be capable of supporting fire tenders.

The solution was a Total Traffic Exopave (TTE®) build-up, infilled with soil and seed to allow grass to fill the area. TTE® gave the extra strength the site required compared with typical grass grids but still provided plenty of grass coverage.

TTE® was laid in April 2020, on an access road up to the substation, and laid around the building's grass verge to allow access for emergency and maintenance vehicles.

One of the added benefits of using TTE® here is, because it's trafficked only occasionally, the grass fully covers the units adding visual appeal making it a perfect space for students to relax!