

CASE STUDY

Northern Access Road

In partnership with



BACKGROUND

The Northern Access Road (NAR) is a 3.4km urban single carriageway designed to unlock housing development for 4,000 homes in the Langarth area of Truro. The new route provides vital connections between the A390, the Langarth Park & Ride, Treliske Hospital and the retail park, significantly improving access across the area.

The scheme includes a signalised gyratory junction connecting the NAR to the existing A390 at its western end and has been designed to promote sustainable transport through enhanced walking and cycling infrastructure.



THE CHALLENGE

As part of a major infrastructure development, eight electrical substations were constructed along the route to provide essential power distribution for the new network. The substations were originally fitted with timber framed doors, lined with ply and coated in GRP, supplied by another manufacturer.

However, as early as three months after installation, the harsh weather conditions had started to affect the doors which were, twisting, swollen, delaminating and split.

The deterioration of the doors raised concerns about the doors' long-term durability and maintenance. Left unresolved, these doors would require significantly higher maintenance costs, operational disruption, and early replacement.

Cormac required a robust, maintenance-free alternative offering long-term reliability in demanding outdoor environments. They needed to provide superior corrosion resistance, reduce whole-life costs, and integrate seamlessly with the existing substations while delivering a durable, secure solution.





THE SOLUTION

TS Designs was appointed to design, manufacture and supply double doorsets for each substation using our proven PA1 door system to replace the original doors.

Working closely with Cormac and Last Mile (formerly UK Power Distribution), each doorset was engineered to meet the specific requirements of the individual substations while delivering exceptional performance and longevity.

Manufactured from corrosion-proof materials, the PA1 range is designed to provide an exceptionally long service life and is backed by our industry-leading 20-year warranty, giving complete confidence in its long-term performance. This was even more important for the NAR given its location close to the Cornish coast and the extreme weather it is exposed to.



THE RESULTS

The existing doors were all replaced within four months of receiving the brief and will ensure the substations on the NAR never need replacement doors.

The result is complete peace of mind for both Cormac and Last mile, safe in the knowledge that the doors will never need any maintenance or replacing.

WHAT THE CLIENT SAID

“Having installed the substations just over year ago, we installed the doors we thought would protect the substations in the long term. Unfortunately within a few months the doors were twisting, swollen, delaminating and splitting. TS Designs were able to deliver replacement doors quickly and the result is fantastic. The new doors not only look great, the 20-year warranty also gives us confidence in their long-term performance and peace of mind for years to come.”



FIT AND FORGET

Engineered to perform for the lifetime of the building



COST SAVING

No maintenance, repainting or replacement cycles



SUSTAINABLE

Lower environmental impact and reduced carbon footprint

