



Custom GRP kiosks support critical power infrastructure at Southampton Port.

SUMMARY

Morgan Marine were commissioned to design and manufacture two substation kiosks as part of upgrade works at the Port of Southampton. These kiosks were engineered to provide secure, durable, and efficient housing for essential electrical infrastructure, ensuring reliable power distribution within the port. Both kiosks were constructed using standard 18mm GRP with a textured finish, featuring timber-effect doors and three-point locking systems for enhanced security.

LOCATION: ABP (Associated British Ports)
Southampton

PRODUCT USED: Standard Construction 18mm
GRP – textured finish

KIOSK SIZE: Kiosk size 1 – 8m x 3m x 2.3m high
Kiosk size 2 – 8m x 4m x 2.3m high

DATE: 2024

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Our Heat Gain calculations allowed us to calculate the ventilation free area required to maintain the buildings within the required temperature parameters.

Additionally, explosion relief roof brackets were installed across two separate roof panels, allowing for controlled pressure release in the event of an overpressure situation. These brackets are designed to lift and safely dissipate excess pressure before returning to a secure position.

Measuring 8m x 3m x 2.3m and 8m x 4m x 2.3m, the kiosks required careful logistical planning.

A route survey was conducted by RDH Transport to facilitate safe delivery from Llandybie to Southampton, with escort vehicles ensuring compliance with transport regulations for oversized loads. Upon arrival, installation was completed efficiently by an experienced in-house site installation team, ensuring the kiosks were positioned and secured quickly to meet Southern Voltage Services' exact specifications.

This project demonstrates a commitment to high-quality engineering and logistical precision, delivering a secure and reliable substation solution tailored to the demands of the busy port environment.