

ENGINEERED GRP ACCESS

Raised GRP Walkway for an Oil Tanker in Scotland

A coordinated raised walkway creating safe deck routes above densely arranged mechanical and electrical services.

Cover image: marine context; the project vessel remains confidential.

SECTOR
Marine, ports and offshore

LOCATION
Scotland

SYSTEM
Raised walkway, grating and handrail

CLIENT
Confidential vessel-refit client

01 THE CHALLENGE

Create safe routes across a heavily populated working deck.

The vessel was in dry dock for refit with a deck crowded by pipes, conduits and other services. The client needed a defined pedestrian and maintenance route that protected both the crew and the equipment beneath it.

Site-access restrictions prevented the delivery team from carrying out the surveys directly. The client captured the existing condition while the GRP structure was coordinated remotely against the vessel's digital model.

02 THE SPECIFICATION

Grating, supports and handrails as one system.

Model coordination

Three-dimensional gantry designs were integrated into the vessel model to identify clashes before fabrication.

Complete access route

Open-mesh anti-slip grating, structural profiles and handrails formed one raised system above the services.

Marine material

GRP grating, profiles and handrails were coordinated as an assembly. Material selection, connections and the vessel interface belong in the same project review.

03 DELIVERY

Thirteen months of collaboration. Six days to install.

The project account records a 13-month collaboration. The structure was prefabricated at Brantham in Suffolk and divided into manageable assemblies for delivery. Installation on the vessel was completed in six days.

THE COORDINATED WORKFLOW

1 Client survey

Existing deck geometry and service information

2 Model coordination

GRP gantry designs integrated with the vessel model

3 Prefabrication

Assemblies prepared at Brantham, Suffolk

4 Installation

Six-day installation recorded on the vessel

04 THE OUTCOME

A raised route across the working deck.

A raised walking route provided access above the deck services, combining grating, structural profiles and handrails. The project account records six days for installation.

Project record: Vital Case Studies. Vessel identity remains confidential. For a comparable installation: confirm access loads, slip performance, restraint, vessel interfaces and any fire or electrical requirements against the specified assembly and its supporting evidence.

Project information

Client survey information supported remote model coordination, followed by prefabrication and installation. The photograph illustrates the marine setting; it does not identify the confidential vessel. The workflow describes the project account and is not an as-built drawing.

Could a raised walkway solve your deck-access problem?

Send deck geometry, service layouts, access duty and vessel-interface requirements. We can help coordinate the structure and installation sequence.

Discuss a marine access project