

Type 26 City Class frigate

The Royal Navy's new and versatile warship

The Type 26 City Class frigate will be a world-class anti-submarine warfare ship for the UK's Royal Navy. Globally deployable, the flexible mission bay, aviation facilities, and combat systems ensure it can undertake a wide range of roles, from high-intensity warfare to humanitarian assistance, operating independently or as part of a task group.

The ships will share a common acoustically quiet hull and take full advantage of the modular design and open systems architecture to facilitate through-life support and upgrades as new technology develops. This will ensure the Type 26 frigate remains relevant to future maritime demands and delivers an adaptable design that can accommodate sub-systems to meet individual country needs.

NOV Fiber Glass Systems has provided a multitude of products for the Type 26 platform, including our glass-reinforced epoxy (GRE) fiberglass pipe and fittings and phenolic ramps and gratings. This ensures that the platform remains light and maintains elite manoeuvrability and performance.

The vessel is not only lighter than if it had metallic pipe and fittings installed, but it also requires less maintenance due to our corrosion-resistant Bondstrand™ products.

NOV Fiber Glass Systems worked closely with the BAE Systems design and procurement team and has supplied custom GRE fittings to mitigate the acoustic interference typically seen in metallic pipe.

We have supplied GRE pipe and fittings for the following applications:

- Air escape and vents
- Sea inlets and overboard discharge
- Fresh water filling and transfer
- Chilled water
- External scuppers and drains
- Magazine and internal deck drains
- Prewetting
- Propulsion seawater cooling
- Grey water

Case study facts

Location: Govan, Scotstoun

Customer: BAE Systems

Time frame: Current - 2028



We have also supplied our market-leading Strongwell phenolic grating systems for the frigate programme managed by the MOD's Defence Equipment & Support arm. Our phenolic fiberglass-reinforced plastic grating and flooring is proven tough and robust to meet the MOD's demands. It fully meets the stringent smoke and fire requirements, including impact and wheel load tests.

Minimal maintenance = significantly reduced OPEX costs

- 40 years to first major maintenance

Lighter weight = lower installation costs

Fast field fabrication = lower installation costs and risks

- No hot work permits are needed

Long-term integrity = higher safety

- No hidden corrosion failures

NOV Fiber Glass Systems has provided composite solutions to the Ministry of Defence for 25 years and is proud to continue to do so.