



CASE STUDY - Land & Marine Engineering Ltd, Oil Storage Tank



Improving *your* environment



## Land & Marine Engineering Ltd - Oil Storage Tank

**Start date:** September 2013

**Finish date:** October 2013



Petrochemical Services

Shield Insulation undertook the thermal insulation of TK100 Falmouth Petroleum Heavy Fuel Oil (HFO) vertical cylindrical storage tank measuring approx 28.00 metres diameter x 16.00 metres in height. Health and Safety was at the forefront of the Project Engineer's plans, ensuring every eventuality had been processed for a safe delivery of the project.

The works took place during September and October 2013 following the construction of the tank by Land and Marine Project Engineering Ltd.

A specialist team of Shield's Thermal Insulation Engineers had to work with Land and Marine Project Engineering Ltd to assist in the design of a bespoke scaffolding system capable of dealing with the technicalities of the project.

Working to the specification provided, we applied 120mm thick semi rigid mineral wool insulation to the shell of the vessel. The insulation was then over clad using Plastisol Trapezoidal profiled coated steel cladding with a specified ocean blue finished. The Plastisol was stitched together using colour coded moulded head fixings.

Close contact between Shield Insulation and Land Marine Project Engineering Ltd was critical to the success of the project. Daily site contact was maintained by our Site Supervisor and regular site meetings were held between respective Contract Managers.

**Nigel Hill, Project Manager**  
**Land and Marine Engineering Ltd**

We were pleased with the way Shield Environmental Services Ltd tackled the works of insulating / cladding Tank 100. Weather conditions at the time were not ideal for handling lightweight sheeting / rockwool but the operatives worked safely and with diligence and enthusiasm.