

# ◆ Packaged Prison Power Acoustic Enclosure

## ◆ Acoustically Packaged Standby Diesel Generator for a UK Prison

Our client for this project, a specialist UK provider of M&E services, won a contract to provide several electrical and mechanical services for a UK prison.

Part of the contract included the supply of a new emergency standby diesel generator system to support the new critical infrastructure.

As a result, ADE were awarded the contract to:

- ◆ Supply a Cummins C1100D5B - 1100 kVA emergency standby diesel generator.
- ◆ Design and manufacture a bespoke acoustic enclosure, attenuated to 65 dB(A) at 1m, including full mechanical and electrical fit-out of the generator set and other key equipment/features such as:
  - ◆ An ADE designed and manufactured 1,700 litre day fuel tank.
  - ◆ An external cable link box.
  - ◆ Roof-mounted cylindrical silencers.
  - ◆ Fixed blade weather louvres on both the air inlet and outlet.
  - ◆ Motorised air inlet dampers.
  - ◆ Gravity air outlet dampers.
  - ◆ Small light and power.
  - ◆ Other auxiliary equipment.
- ◆ Design and manufacture a 33,000 litre bespoke bulk fuel tank complete with a hydrostatic gauge, an overfill alarm, overfill prevention, a fuel polisher, valves, and sockets, as well as a duplex pump and a control panel, to manage fuel transfer to the day tank located inside the generator enclosure.

### ◆ Products:

- ◆ Cummins C1100D5B Generator
- ◆ Bespoke Acoustic Enclosure
- ◆ Bespoke Fuel Tanks

### ◆ Industry:

- ◆ Infrastructure

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