

Eurostar International - REB Rooms

Client

Eurostar International

Project

Design, supply, install, commission & maintain fire detection & alarm system and fixed **FirePro** extinguishing system for REB rooms



Room & Cabinet Protection

Fire Detection & Alarm System

FirePro co-incident controller

FirePro single zone panel for cabinets

Linear heat detection cable
Status Lamp Indicator

Apollo Series 65 AFD

1st alarm siren + strobe

2nd alarm bell

Hold off buttons

Aux signal relays

FirePro Materials

7 x FP 3000 Generator per room

2 x FP 100 per Battery Cabinet

Cabinet

2x FP 80 per GSMR Cabinet

2x FP 80 per GSMR Cabinet

The 4 REBS rooms are situated amongst the tracks leading to the main depot where the trains are routinely serviced. Access to these rooms is only viable on foot due to them being near live rail lines with 11,000 volts overhead. This posed the problem of getting the fire suppression agent to the risk area. The only feasible way to do it was to hand carry all the equipment. Only a modular system with light weight components could achieve this.



FP 100 FirePro Generators within Battery Cabinet
Insert shows linear heat detection cable

Eurostar is the high-speed rail service directly linking the UK to France and Belgium via the Channel Tunnel. It started operating in 1994, providing city centre to city centre services.

The site is for the maintenance of all Eurostar trains in the UK and designed to house eight service roads.



Dedicated in Cabinet Protection

Each battery cabinet has its own **FirePro** system. If the fire is detected within the cabinet then only the system in the cabinet activates. The **FirePro** generators have been installed in such a way that they can easily be removed for maintenance of the batteries within the cabinet. As it is a space that cannot be occupied only a single zone gas suppression control panel is required. Fire is detected by means of a linear heat detection cable.

Why **FirePro**?



Safety. An absolute.

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FirePro has numerous advantages for fixed extinguishing systems – here are a few

- ✓ Certified environmentally friendly “green” fixed extinguishing solution
- ✓ No harmful residues or deposits
- ✓ Does not produce harmful or toxic gases when in contact with a fire
- ✓ Fully modular, protects the smallest risk to total flooding application
- ✓ Does not reduce oxygen content within risk when discharged
- ✓ Leading certified aerosol product – represented in 70 countries
- ✓ Certificated by Underwriters Laboratories USA
- ✓ Application to BRE/LPCB for technical approval in process (Feb 12)
- ✓ Low cost of ownership from procurement to maintenance
- ✓ Installed in less time than conventional gas extinguishing systems
- ✓ Rapid deployment & re-installation in hours to re-arm – not days
- ✓ No pressurised gas cylinders required - No wasted footprint space
- ✓ No distribution hydraulic design, pipe fabrication, or installation
- ✓ No risk of operative injury - such as accidental cylinder detonation
- ✓ No gas pressure reduction arrangements to facilitate gas release
- ✓ No over pressure venting of enclosure required
- ✓ Wall or ceiling mounted for room applications, will fit inside risk also
- ✓ No need for F-Gas compliance or certification
- ✓ Rapid installation – low maintenance – low spares inventory
- ✓ Drop in replacement for obsolete / dangerous CO₂ fixed systems
- ✓ Can be configured and triggered via co-incident method
- ✓ Can be configured to work autonomously without an electrical supply
- ✓ Sold with only leading British  manufactured control equipment



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