

Battery Rooms – (REB Rooms)

Client:
Eurostar
International

Location:
London -UK

Project:
REB Rooms

Project By:



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.

Type of Protection:
Room & Cabinet Protection

Fire Protection:

FP-3000
FP-100
FP-80

Type of Protection:

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.



The Task:

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



We **identify** risks - We **design** solutions - We **prevent** disasters

Risks Involved & Consequences:

As with most fires there will always be a variety of materials that may have combusted and dependent on the stage of the fire – the **FirePro** Units will extinguish fire – without producing any harmful effects to assets and human lives.

Furthermore, fire damage and the consequential undue and prolonged interruption to the functioning of equipment used in critical procedures had to be avoided.



Solutions:



All **FirePro** units are manufactured under strict quality and environmental management standards according to international standards and requirements.

Results & Implementation:

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.

| Description/Details | Quantity | Type |
|--------------------------------------|----------|----------------|
| Fire Protection Units | | |
| Total Flooding (Room) | 28 | FP-3000 |
| Battery Cabinet | 40 | FP-100S |
| GSMR Cabinet | 16 | FP-80S |
| Fire Detection / Alarm System | | |
| Co-Incidence Controller | | |
| Linear Heat Detection | | |

Advantages of **FirePro**:

- certified environment friendly “green” fixed extinguishing solution
- no harmful residues or deposits
- does not produce harmful or toxic gases when in contact with a fire
- does not reduce oxygen content within risk when discharged
- leading certified condensed aerosol product – represented in 70 countries
- no pressurised gas cylinders
- fully modular, protects the smallest risk to total flooding application
- installed in less time than conventional gas extinguishing systems
- rapid deployment & re-installation in hours to re-arm – not days
- wall or ceiling mounted for room applications, Installed inside risk also
- no gas pressure reduction arrangements to facilitate gas release
- no risk of operative injury - such as accidental cylinder detonation
- no distribution hydraulic design, pipe fabrication, or installation

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