

Crossrail Infrastructure, London & Southeast Regions of the UK



Crossrail Infrastructure

Project Outline

Location	London & South East Regions of the UK
Sector	Crossrail
Disciplines Covered	Fire Detection Aspirating Detection Voice Evacuation Public Address Disabled Refuge Fixed Fire Suppression Sprinklers Water Mist Smoke Damper Control EDNE Signage Charged Fire Hydrant Main
Key Points of Interest	7 Crossrail Stations 6 Crossrail Portals 2 Crossrail Depots

Project Overview

The Crossrail Project is a new railway system in London England it links Reading and Heathrow in the west, through central London, to Shenfield and Abbey Wood in the East.

Crossrail Infrastructure, London & Southeast Regions of the UK

The name for the new Crossrail project is the Elizabeth Line and when completed in 2022 and will carry an estimated 200 million passengers per year. The new Elizabeth line will link 41 stations together with 10 of those stations being constructed specifically for this project.

The Challenge

The Crossrail Project is currently Europe's largest infrastructure project. This would mean it was a tall order for just one company to take on this amount of work. All the 41 stations as well as supporting depot's and portals would require new mechanical and electrical services. The Crossrail project was split into smaller projects, each having service packages created so they could be put out to tender.

The Tender process would mean that contractors would bid for the smaller projects enabling them to work on the project. As the smaller projects all combined to make the one large Crossrail project, it would mean all the life safety systems would have to share the same manufacture, so the systems work seamlessly together.

The Solution

Protec were employed as early as 2013 across several Crossrail Stations and Crossrail infrastructure premises, delivering Fire Engineering Systems within the new Crossrail railway system, provided for London and the South-East regions. Protec supplied installed and commissioned the approved life safety systems which were identified in the client's specification along with strict installation guidelines to ensure the system would withstand everyday environmental conditions.

The works started in 2013 and continue to be installed with the overall cross rail infrastructure to be completed in 2022. All the systems provided by Protec were installed in the correct and precise manner to ensure the Life safety systems met the relevant British standards, client's specifications and in turn, meeting LPS 1014 certification.

The Aftercare

Once the contracts are completed, the life safety systems are handed over to the client for the systems to be serviced and maintained by their incumbent fire and maintenance companies.