

RVT Group provides bespoke noise control solution to the Crossrail Fisher Street site

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Crossrail facts and figures

- There will be 40 Crossrail stations, including 10 new stations
- Crossrail will bring an extra 1.5 million people to within 45 minutes of central London
- An estimated 200 million passengers will use Crossrail annually
- Crossrail is estimated to add £42bn to the UK economy
- Over 3 million tonnes of excavated material was shipped to Wallasea Island, Essex, to create new 1,500 acre RSPB nature reserve

Connecting London and the South-East like never before

Crossrail – London and the South East’s new rail network – has hit a lot of significant numbers since construction began in May 2009, and no doubt it will hit plenty more upon completion between 2017 and 2019.



For example, it’s the biggest construction project in Europe to date. And it’s one of the UK’s most substantial infrastructure projects, due to deliver a host of benefits such as:

- Easing city congestion
- Improving customer journey times across London
- Connecting key employment, leisure and business districts
- Supporting the regeneration of London’s boroughs
- Increasing the value of London’s property market

This huge project has taken over 100 million working hours, with 10,000 people continuing to work across 40 construction sites, and over 100kms of route being created from Reading and Heathrow in West London, under central London itself, and out to Shenfield and Abbey Wood in the East.

Key benefits of RVT Solution

- Able to be manufactured to suit the exact dimensions of the enclosure
- High performance, weatherproof and fire resistant
- Quick to erect and easily transported

"In dealing with RVT, we have used their services for Dust / Noise suppression. The team at RVT offers comprehensive and flexible solutions to ensure that all personnel are adequately protected. A current testament to the quality of service they supply is the pouring enclosure located at the Fisher Street CRL site; the sound attenuation and protection for the operation is exemplary with this in place."

Raymond Moloney,
Site Agent

RVT: Protecting the health of Crossrail workers and the public

The immense scale of Crossrail's construction undertaking, meant that London residents and businesses were almost definitely going to be subjected to potential health risks. The most obvious one was noise, with large machinery being used both day and night.

A solution had to be found ahead of any work starting, to ensure that the health risk was minimised. So Crossrail devised and publicised a noise mitigation procedure, to provide assurance that the health of Londoner's was a priority and effective solutions would be put in place.

The Fisher Street site, in London's Holborn, close to the British Museum and London's West End, has a Crossrail access shaft where large diesel powered concrete pumps, including a concrete remix unit, were in use.

The problem for Crossrail on this particular site, was finding a noise control solution large enough to protect the health of site personnel and the general public nearby.

RVT Group assessed the site and Crossrail's requirement for a 20dB reduction at 10m, and came up with the following solution:

1. Create a bespoke structure around the concrete pumps
2. Clad three sides with a twin layer of C2/3 Soundex Professional Acoustic Curtains
3. Erect a single layer of the C2/3 Soundex Professional Acoustic Curtains to the roof
4. Create a bespoke panel to cover the front top half above the gantry crane
5. Place a set of four acoustic sliding panels to the lower section

