

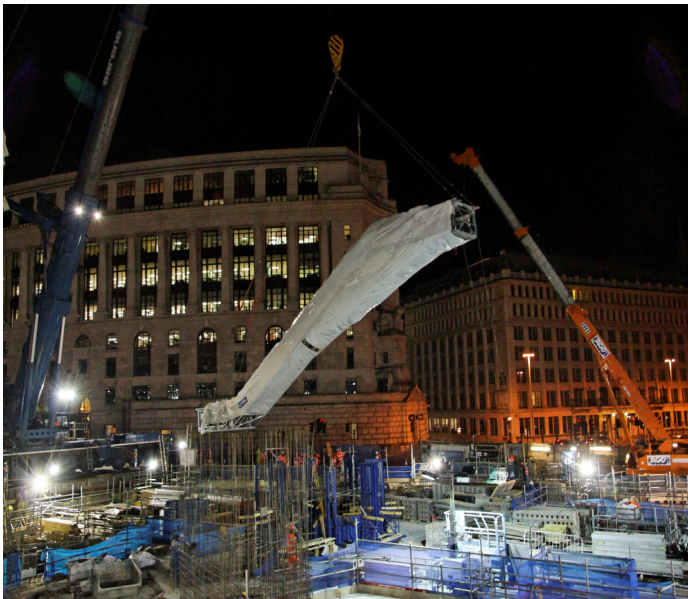
What's happening?

Best Practice at *Blackfriars* Escalator assemblies

Overview:

The improvements to the Thameslink and London Underground stations are under a demanding programme and scope as they are to be delivered in the spring of 2012.

Complex construction works are being delivered in a high density urban area, with space constrictions and virtually no on site lay-down. Innovative methods have been used to ensure these works are delivered in the most sustainable way possible, and that good relations are maintained with local stakeholders to ensure that disturbance is minimal. An example of this innovation is the delivery and installation of the London underground escalators as single units.

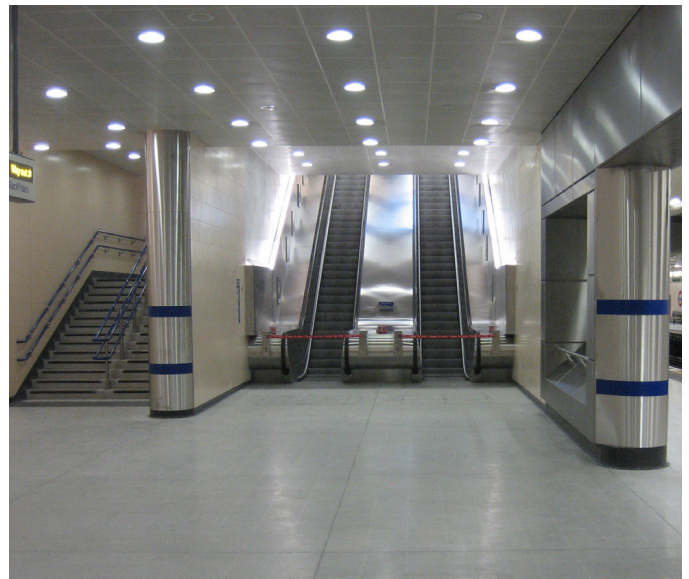


Photograph 1: The 500 tonne crane lifts 1 of the 4 LU escalators.

Benefits or Preventative measures implemented:

There are numerous advantages associated with the delivery and installation of the escalator assemblies as single units, each supporting the 3 pillars of sustainability – economical, environmental and social:

- Reduction of the installation period from 43-weeks to 18 weeks (economical)
- Reduces waste and the risk of pollution as the units are created off site in a controlled environment (environmental)
- Quieter - only requires 7 nights to install the units (social)
- Reduces congestion on roads as only requires four deliveries (environmental and social)
- Reduces double handling of materials (environmental and economical).



Photograph 2: The escalators at completion of the LU station

Meeting our objectives & targets:

The use of single unit assemblies, such as the escalators, is one of the many schemes helping the Blackfriars project fulfil the sustainability objectives provided by the client, Network Rail, as well as meeting targets outlined in Balfour Beatty's Sustainability Roadmap:

- Profitable markets
- Restrict carbon emissions
- Protect land and minimise pollution
- Support health and amenity