



Design of the times: The walk-through trains are sleek, spacious and air-conditioned



The brand new Elizabeth line has arrived, with faster journeys like Paddington to Liverpool Street, in just 11 minutes.

Bringing more of London together

Bond Street opening soon. Paddington to Abbey Wood services running Monday to Saturday from 06:30 until 23:00. Faster than existing public transport routes. Based on average off-peak journey times.

MAYOR OF LONDON

 Department for Transport

 **TRANSPORT FOR LONDON**
EVERY JOURNEY MATTERS

Unpicking the design of the Elizabeth line

TFL'S PRODUCT AND INDUSTRIAL DESIGN MANAGER PAUL MARCHANT SPILLS THE BEANS ON THE ELIZABETH LINE TRAINS

THE Elizabeth line, which opened yesterday, is not just a set of new trains – it's a whole new network that runs from east to west beneath the city. Paul Marchant, Tfl's product and industrial design manager, explains how he helped design the interior of the trains to fit with the aesthetic of the line and the network.

'The size of the trains is truly phenomenal and will blow people away,' he enthuses. 'It's a step-change in how we do transport and will pull the development of all the other Tube and rail lines in a new, exciting direction.'

ENHANCED EXPERIENCE

The Elizabeth line stretches for more than 60 miles from Reading and Heathrow in the west through to Shenfield and Abbey Wood in the east.

The trains provide real-time customer information, both audio and visual, including live updates.

Customers also benefit from CCTV, air-conditioning and free wi-fi.

As Paul says: 'You've got to make the railway accessible for everybody. That's why we've created spacious, walk-through trains with dedicated spaces for wheelchair users and multi-purpose spaces for people with buggies, luggage and cycles.'

In addition, all Elizabeth line stations are step-free from street to platform, with level boarding at the

new stations between Paddington and Woolwich, and at Heathrow. The wheelchair bays are always in the same place on the platform so you can get on at one station and get off at the next.

MAKING OF THE MOQUETTE

The line is purple to reflect the royal link, and the colours of the moquette were chosen to resonate with that specific shade of purple. Paul explains: 'The moquette was designed by Wallace Sewell, supported by us in the product design team.'

'Purple is a very challenging colour, and there were lots of elements to harmonise. We weaved in colours from the lines that interchange with the Elizabeth line – the silver, red and blue of the Jubilee, Central and Piccadilly lines, as well as the orange of the London Overground and the turquoise of the DLR.'

'We also matched the moquette to the interior of the new trains, and worked hard to orchestrate the colours with grab poles, flooring and walls. The moquette injects a vibrancy to the new trains, creating a distinct feel that is dynamic and exciting, reflecting a fresh new railway for London.'

FUTURE PROOF

The railway is also speedy and energy efficient. Once the Elizabeth



Paul Marchant: Tfl's product and industrial design manager

line is fully open, 24 trains per hour will run between Paddington and Whitechapel at peak times, and journey times will be much quicker across the city. The stations are all built to accommodate an additional two carriages per train, allowing for more capacity in the future.

The trains are 20 per cent lighter and use regenerative braking, which takes up less energy and means that acceleration and deceleration are much quicker.

Paul points out that customers might notice cutting-edge features, including: 'Dynamic sounders on the doors, which maximise when in a noisy station but are quieter in rural stations, therefore avoiding unnecessary noise pollution. Lighting levels also adjust to external conditions, dimming as the trains pull out of tunnels, to help your eyes adjust.'

'All of these small details are designed to make journeys more comfortable and seamless for our customers.'

To find out more details about the Elizabeth line, including the new route, accessibility information and more, visit tfl.gov.uk/elizabeth-line



Dynamic: The vibrant moquette matches the interior of the new trains

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