

London Paddington station spans 1-3



TOTAL COST £29M
COMPLETED 2016
DURATION 2Y6M

RESPONSIBLE BUSINESS



Project Description

Sectors

- Transport, Rail

The seventh busiest railway station in the capital, London Paddington is of great historical significance, having been built by Isambard Kingdom Brunel in 1850, and is a Grade I Listed Heritage Building.

Project profile

- Refurbishment of the Grade 1 listed Paddington station train shed roof spans 1-3

Morgan Sindall Infrastructure delivered a station refurbishment whilst maintaining a fully operational station serving 50 million passengers a year. The scheme began as an Early Contractor Involvement project back in 2012. Working with Network Rail, Morgan Sindall Infrastructure scoped, designed and specified the project to meet their requirement and budget.

Client

- Network Rail

The main works feature refurbishment of roof spans 1-3, including:

- Replacement of polycarbonate sheet roof
- Steelwork (strengthening and repairs)
- New lighting and uninterrupted power supply
- Painting
- Cladding
- Increased drainage capacity
- Refurbishment of the cast iron decorative scrolls

Stage

- Complete

The site team co-located with Network Rail to allow close collaboration working (BS11000 certified) around the clock to complete the multi-disciplinary works.

Keywords

- Transport
- Rail

Responsible business

Enhancing communities



The project is employing local people (including students from Paddington Academy) and suppliers, along with engaging with local schools and businesses.

Location

- London

Project key facts

Refurbishment to a Grade I listed structure with minimal disruption to the live station beneath the works, in partnership with Network Rail.

This project took place following the successful delivery of Span 4, strengthening an excellent relationship with Westminster City Council and English Heritage.

Project contact

Ian Shuffleton

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Improving the environment

The project is currently working with English Heritage to preserve this National Heritage Building for future generations. A sympathetic approach has been adopted with recycling and re-use of existing materials (polycarbonate and cladding) where possible.

Challenges

One of the challenges was understanding the roof's strengths and weaknesses following the structural assessment.

This allowed the suspended scaffold access system to be designed to use the limited roof strength, and minimise disruption to this major London station, by reducing possessions and isolations of Overhead Line Equipment.

Testimonials

"They are proactive, helpful, friendly, collaborative, honest and I really feel they are working flat out to produce the best project delivery possible. Well done"

Jim Melling
Project Manager, Network Rail

"Morgan Sindall Infrastructure has collaboratively and proactively strived for engineering excellence and this innovative approach allows normal station operations with little to no impact to passengers at a key major station on the network"

Matthew Roberts
Designated Project Engineer, Network Rail

Awards

British Construction Industry Award in 2016 for Temporary Works (Building)

Gold Considerate Constructors Award 2016

Bronze Considerate Constructors Award 2014

Silver Considerate Constructors Award 2015

Network Rail Star Award rewarding excellence in Health, Safety and Environment - assessed as 100%