

## Case study

# New Pedestrian Walkway

A new link to provide a direct covered pedestrian walkway from Hackney Downs to Hackney Centre, which will significantly reduce the interchange time between the two stations.

The new pedestrian walkway at Hackney Interchange, London, is a steel twin-span, DDA-compliant structure connecting Hackney Central and Hackney Downs stations, allowing passengers to move between the two without leaving the station environment.

The footbridge comprises simply supported main spans perpendicular to the tracks, designed with Warren truss elevations, except for the staircases, which use Vierendeel trusses.

Each span forms a box section bridge with laced top and bottom chords. At low levels, the spans are supported by cantilever CHS columns with moment bases or trestle supports, while at high levels, they rest on moment-resisting goalpost frames. Part of the structure is within a Eurocode-defined hazard zone (4.5m from the nearest running rail) and is engineered to withstand derailment loading.

Alan Wood and Partners carried out a Category 3 full independent check for this scheme for Network Rail.



Location:  
London



Client:  
C Spencer Ltd



Architect:



Value:  
£3m



Civil Engineering    Structural Engineering

Engineer/  
Manage/  
Deliver/