

Crossrail Paddington Station

CLIENT: Skanska Civil Engineering

LOCATION: United Kingdom

YEAR OF COMPLETION: 2013

We were appointed as the independent checker for the temporary works for the Crossrail station as part of contract C405.

The scope of the check included the temporary props used to support the walls of the station box as well as the connection waling beams and their associated supports.

After discussion with the prop manufacturer, we undertook our own analysis to confirm the buckling capacities of the proprietary props to EC3. The analysis allowed verification of the prop preloads required to ensure the station box wall movement stayed within specification.

The independent analysis undertaken for the waling beams and their supports utilized a 2D model which was prepared to determine the load effects on the beams which then enables the beam sections and their connections to be checked to EC3.

KEY FACTS:

- Independent checker
- Temporary works
- 2D model
- Independent analysis

