

# M25 AND M4 INTERSECTION INSPECTION ACCESS

**HAKI was specified to provide high-level access to the underside of M25 / M4 bridges and flyovers, so routine inspections could be carried out.**

## THE SCOPE

The M25 is one of Europe's busiest motorways, with thousands of vehicles using it to reach their destinations every day. As a result of the amount of traffic which passes through the highway and its multiple junctions, safety and maintenance are absolutely key. For this reason, tailored solutions provider, HAKI, was selected to provide the temporary access systems for this project in order to maximise safety levels onsite.

The intersection of the M25 with the M4, the passage which runs from west London to southwest Wales, is a highly-trafficked junction which requires routine inspection. Connect Plus Services, a Balfour Beatty, Atkins & Egis joint venture, is responsible for operating and maintaining the M25 motorway network, including all adjoining trunk and slip roads on behalf of Highways England and its contracted partner, Connect Plus.

When it came to the junction's inspection programme between June 2019 and August 2019, Connect Plus Services specified a range of access scaffolding systems from HAKI to ensure the works could be completed safely and efficiently.

## THE SOLUTION

Working alongside scaffolding, insulation and asbestos management specialist, Alltask, HAKI supplied a combination of HAKI stair towers and birdcage scaffolding to enable essential access to the hatches underneath the crossover's numerous bridges and flyovers. This access would then enable a safe route for site workers to reach the steel girders.

Under the umbrella of HAKI's Universal product range, birdcage scaffolding was perfect for the high access required. Birdcages are an independent scaffold comprised of more than two rows of standards in both directions connected by ledger beams at every lift height. Quick and safe to erect using collective measures with the HAKI Advanced Guard Rail tool, the birdcage's top lift was decked to provide the main access platform for work to be undertaken.

HAKI's market-leading stair tower – which boasts a 4kN/m<sup>2</sup> loading class – proved to be the answer for secure access and egress from the site's 30m long slope. Available in a variety of configurations and recognised by industry bodies such as the Considerate Constructors Scheme, HAKI's stair tower ensured work from height could be completed as safely as possible.

## HIGHLIGHTS

**Safe**  
high-level access

**Minimal  
disruption**  
to wider public

**Quick**  
programme of works



# CLIENT TESTIMONIAL

“HAKI’s products were selected for their efficiency and safety. For this complex project, it was crucial to use systems which would streamline delivery and work onsite. HAKI’s products ticked all the boxes and were perfect for this programme.”

Reece Payne  
Contracts Supervisor at Alltask

## HAKI UNIVERSAL

HAKI Universal is unbeatable for building birdcage scaffolds, for high level access.

### High-level access

Birdcage scaffolds are typically used where access is required, at high levels, for example ceilings or underside of bridges. The birdcage is an independent scaffold consisting of more than two rows of standards in both directions connected by ledger beams at every lift height. The top lift is decked to form the access platform for work.

Using HAKI Universal, birdcage scaffolds can be quickly constructed with more than one lift height or single lift. Several scaffolding bays can be joined together to provide large areas of continuous access. Sections can be partly decked for speed and economy.

### Safe systems of work

The HAKI Advanced Guard Rail (AGR) offers a totally safe system of work, meaning birdcage scaffolds and other structures can be erected using collective measures in accordance with the NASC SG4:15. Using the AGR tool, a permanent guard rail can be erected before decking out a bay on a subsequent lift.

### Speed and adaptability

Unique to the Universal system is the HAKI Ledger Beam. Load-bearing connections can be made horizontally and vertically anywhere along its length, and combined with the HAKI Universal Beam Rider, returns and in-fills can be created at any point, as well as allowing ‘fly past’ at corners. This results in maximized bay lengths up to 3.05m, which reduces erection times and installation costs.

