

M25 GADE VALLEY VIADUCT MAINTENANCE ACCESS

HAKI was specified to provide high-level access so strengthening works to the underside of the heavy-use Gade Valley Viaduct could be carried out safely and efficiently.

THE SCOPE

Located between junctions 20 and 21 of London's M25, the 450m-long Gade Valley Viaduct carries thousands of commuters as they make their way around the capital's busy motorway.

Gade Valley is a multi-span composite viaduct comprising twin decks; both of which are fashioned from four open top steel girders with an in-situ cast concrete slab.

To ensure the viaduct continues to perform at its best, scheduled strengthening works are a complete necessity; requiring high-level access to the underside of the structure.

THE SOLUTION

HAKI worked alongside main contractor, Osborne, and scaffolding subcontractor, Alltask, on this project; utilising up to 300 tonnes of its materials on this site.

Based on its efficiency, safety features, and compatibility with traditional tube and fitting, HAKI's Universal system was specified to enable crucial access to strengthening works at the underside of the viaduct, through vast birdcage structures. The sophisticated system kept installation time to a minimum so programmes and deadlines could be met.

HAKI birdcages are providing safe ingress and egress from particularly hazardous areas on the infrastructure site whilst the project is ongoing until 2021. The robust scaffolding system also means the access can withstand greater loadings than most comparative solutions.

Furthermore, the simple 'hook-on' and spring-lock catch mechanism – unique to HAKI – is minimising the risk of component displacement, falling materials, and noise pollution, to protect both workers and public from injury during the works.

HIGHLIGHTS

300

tonnes of HAKI material

Safe high-level access

through multiple birdcages

Compatibility

with traditional tube
and fitting



CLIENT TESTIMONIAL



As well as delivering on technical support, HAKI crafts products which encompass the essential safety and access requirements set by complex projects. For the Gade Valley Viaduct's strengthening works, the utilisation of HAKI's temporary works' solutions allowed the project's high safety and access demands to be made a reality."

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 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.

