



QUALITY SCAFFOLDING SINCE 1975

45 CANNON STREET

CLIENT: BOUYGUES

Initiative Scaffolding Solution to Complex Facade Installation

Using: Haki, Tube and Fitting, Niko Running Rails



GRENROSE SCAFFOLDING

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This particular project was to date the most complicated and demanding of those that we have undertaken.

CLIENT BRIEF:

Our initial contract was for various internal access scaffolds, loading bays, staircases and guardrails. The façade was to be installed via the onsite crane and cradles, this meant that the only external scaffolds that we were going to supply was a public protection scaffold with a continuous fan around two sides of the building. One of the elevations requiring external scaffolding was located on Cannon Street which is heavy with pedestrians especially during the morning and evening commute so the protection of public was key to our works.

All contracts will have issues which arise onsite however when the supplier of the façade pulled out of the contract after we had already erected the protection this meant that a completely different solution for installing the façade would be required. Over the next couple of weeks various in depth meetings were held with the Main Client, façade installers and ourselves, to try to come up with a new solution which will meet with all of the requirements that the new façade would create. Every step made in finding a solution for the access, seemed to bring about a conflicting problem. Storage onsite for the façade was very limited and the crane onsite was constantly in use, therefore we had to engineer a solution for the storage as well as moving of the materials around the scaffold.

Every problem will have a solution and so it was when we devised a method that would meet all the requirements of our client. The gantries imposed loading were increased in order to allow for multiple stillage's of materials to be stacked ready for distribution around the scaffold.

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GANTRIES:

Heavy duty gantries were installed to two elevations of the building. These allowed the public to safely walk beneath the gantries whilst works were carried out above them. From the gantries, scaffolds ranging in height up to 20m were erected, these scaffolds were erected from a system style scaffold which



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Heavy Duty Gantries

enabled the inside boards to be quickly and economically adapted as the façade was installed.

Due to the size of some of the sections of glass used in the façade, a solution was required to lift, turn and then transport the glass along the elevation to the required location. This was achieved by installing various Niko Rail lifting systems, the initial lifting beams were used to lift and turn the Glass and then move it internally of the scaffold.

A second continuous lifting beam was then erected along the full length of each elevation. This then allowed the sections of glass to be transported anywhere along the elevation.



Continuous Niko Rail System

COMPLETION

The final problem was the inner Courtyard elevation which due to the way the façade was installed there was no way for us to tie the scaffold. This meant that we need to design a free standing scaffold more than 30m high which proved to be difficult but certainly not impossible for our solution based methods. The scaffold base was increased in size to as much as was possible due to the tight restraints with neighbouring properties, twin standards were introduced and the scaffold was braced back to side scaffolds, which resulted in a 30m free standing access scaffold.



Free Standing Scaffold

This project was carried out by our Special Works Manager, Mr Alan Quorn. Should you wish to discuss any aspect of these works or to discuss an upcoming project of your own then please do not hesitate to contact him either by phone or by email.

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