CASE HISTORY
Ref: UK / CH / RWSR - Rev: 00, November 18

TEMPORARY WORKING PLATFORM
Product: Parawall system

Problem
The web giant Google are building a HQ in the UK’s capital, London. The Google HQ building has been hailed a ‘groundscaper’ because it will be a long yet low building—it is said to be as long as the Shard is tall. The £1bn project is set to house over 7,000 staff and boast sports pitches, a swimming pool, sleep pods and a roof top running track.

In order to carry out the work successfully a temporary piling platform was needed.

Solution
Maccaferri were asked to facilitate the construction by designing and supplying a temporary piling platform which would stand at 7m high. An MSE wall was then required and working with Lendlease and AKTII, Maccaferri proposed a Parawall system combined certified BBA Paragrid.

Parawall was set by Expanded (Laing O’ Rourke) with a batter of 6 degree. The Maccaferri Parawall system was chosen due to limited working space.

The maximum rig loading was advised to be from Bauer BG42 rig with a bearing load of 281kPa over a track length of 5.244m.

Independent CAT 3 design check were carried out as the structure was classified as high risk due to the Parawall being directly adjacent to Kings Cross station. In addition, the Maccaferri platform was measured using an EDM. The EDMs were set up with shoot targets attached to the outside face of the Maccaferri platform. Prior to rig operation commencing, a baseline reading was undertaken. In addition, at the start of the rig operation, live monitoring was undertaken.

The front face of the Parawall was monitored throughout the length of the works from April till end of May. At the end of the works a total of 13mm face movement was measured. The measurement confirmed the great performance of the Parawall system subject to heavy loadings and proved again that the solution is ideal in those type of scenarios.
Paragrid is then wrapped back approx. 1.5m from front face

Crane standing over the 7m high structure

7m high Parawall adjacent to the Network Rail property