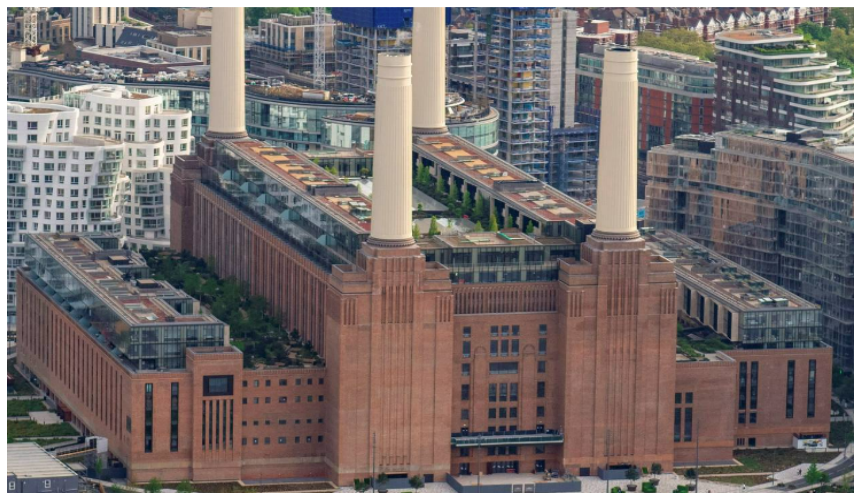
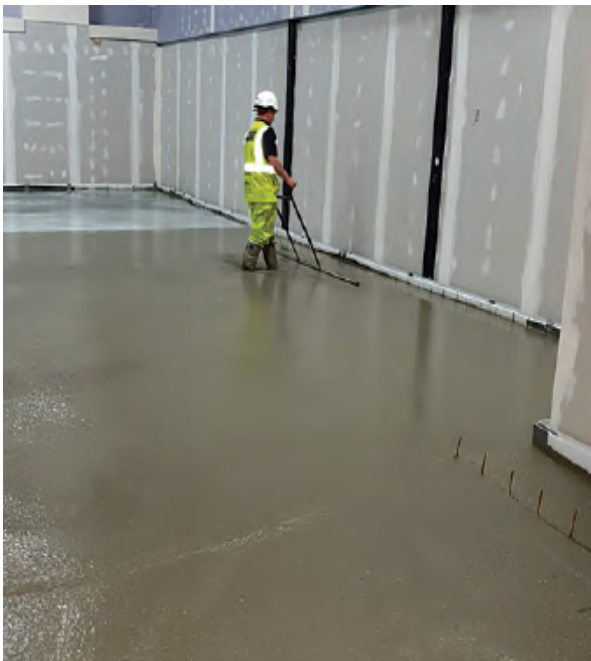




## CASE STUDY

# Battersea Power Station Redevelopment Cemfloor C30F6

The iconic Grade II listed Battersea Power Station is at the heart of one of central London's largest new developments. The £9 billion project will see the creation of a vibrant new destination for London, housing a community of homes, shops, cafes, offices, leisure and cultural venues, with over 19 acres of public space. As part of the redevelopment of the power station, a lightweight floor build-up was required.



**Cemfloor C30F6 was chosen for this project as part of an ultra-lightweight flooring solution. Cemfloor C30F6 was supplied by Capital Concrete and installed by B&K Systems.**

The new proposal for Battersea was for energystore TLA to be installed at various thicknesses to level out the existing un-even substrate with 30mm depth of Cemfloor CT C30 F6 screed then bonded directly onto the insulating screed. This system had the following benefits of the original specification:

- Significant weight reduction: the original specification had a weight of 300kg/m<sup>2</sup> whereas the new proposal had a weight of 120kg/m<sup>2</sup>.
- Greatly reduced installation time: the original specification was a semi-dry system, which would have been manually placed and compacted. The proposed products are both flowable systems that are pumped into place and tamped to provide a smooth level surface.
- Vast reduction in deliveries of materials to site and minimal storage on-site.
- Reduced cement content leading to a lower CO<sub>2</sub> footprint.
- Faster turnaround time allowing follow-on trades to progress with works without any delays.
- Lower curing time of the new system allowed the floor to be loaded with MEWPs faster.
- Significant cost savings were also achieved.

Following the installation of the system in-situ crushing resistance testing (ISCR) was carried out throughout the floor area; with each test easily meeting the CAT A requirements. The system was delivered ahead of schedule and a significant time saving was achieved compared with the original specified floor build up. The slab was covered with various types of flooring all of which were compatible with the screed topping.

