

New South Quarter, Wandle Park, Croydon



New South Quarter is an £160m contemporary urban village on the Purley Way, one mile from Croydon town centre and within easy travelling distance of London.

CCL (GB) is supplying CCL's new XU & XF system and supervising its installation in the first two residential blocks to be constructed. The new CCL post-tensioning system is designed to meet European standards for post-tensioning materials and testing.

New South Quarter will be one of house builder Barratt Homes' largest ever developments. A huge regeneration project, this urban village of 800 apartments is set on a 13-acre site. Once completed, New South Quarter will consist of one, two and three bedroom apartments and studios along with workshops, business start up units, a medical centre, nursery school, café and convenience store. In addition, the River Wandle will be de-culverted and returned to the surface to flow along its original course next to development.

Barratt awarded the 1st phase of this development to Lancsville Construction who commissioned CCL (GB) to undertake the post-tensioning, impressed by CCL's competitive price, enthusiastic approach and track record of delivering outstanding solutions. CCL has a highly productive relationship with all its clients and in this case the client also intends to construct another five similar blocks over the next two years.

CCL used bonded multi strand post-tensioning on the 1st floor transfer beams and unbonded post-tensioning has been used at all floors from level 1 through to 6 of the new residential areas. Nearly 200 tonnes of high tensile strength cable will be installed in total, including approximately 19,000 anchors and wedges.

The design objective for the development was to achieve a flat soffit and minimal floor thickness. The use of a bonded multi strand system allowed the thinning down of transfer beams while unbonded post-tensioned slabs allowed the structures to maintain a minimal slab thickness throughout. The project has very tight timescales. CCL were chosen for our ability to react in a short period of time to mobilise and execute both the bonded multi strand transfer beams and commence the unbonded flat slabs.

CCL Client:
Lancsville Construction

Date:
2008/09

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