

**Location:** Clyde

**Client:** Ministry of Defence

**Precast Contractor:** ABM Precast Solutions

**Main Contractor:** Amec-Morgan Est

**Post-tensioning Design:** CCL

**Post-tensioning Installation:** CCL

**Year of Completion:** 2008



Faslane, 25 miles from Glasgow, is one of the two primary sites that constitute HM Naval Base Clyde, the naval services' headquarters in Scotland. CCL was commissioned to undertake the post-tensioning work for the precast concrete-beam viaduct.

Primarily a submarine base, Faslane's facilities have been upgraded over the last two years to enable a new class of submarine to dock. CCL was commissioned by ABM Precon Ltd to supply materials, and stress and grout 66 precast, pre-stressed, post-tensioned beams, each 26 metres long. The beams formed the new six-span, curved viaduct.

ABM had originally intended to carry out the stressing operation. However, following technical discussions, the company requested that CCL undertake the full post-tensioning operation, including the stressing and grouting works. The project involved the supply of CCL's XM range multi-strand bonded system, which was one of the first in the UK to become ETAG approved.