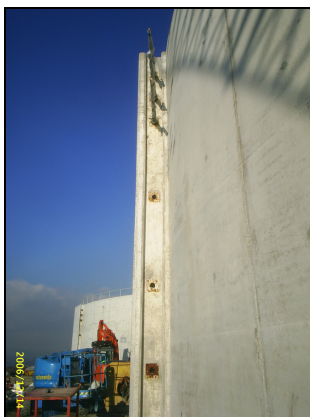


Post Tensioned Water Tanks - Top O' Th' Cow, Bolton

Award winning post tensioned design provides most economical engineering solution.



Main Contractor	KMI Water
Client	United Utilities
Designer	George Hutchison Associates
PT Specialist	Balvac
Site programme	Oct 2006 to Feb 2007
Sub-contract value	£80,000

Balvac were awarded the subcontract to supply and install the post tensioning system to 2No water tanks at Top O' Th' Cow, Bolton in April 2006. Following a period of close liaison with designer, George Hutchison Associates, a bonded tendon design based on MK4 MSA 4/0.6 type anchorages was adopted.



MK4 multistrand stressing jacks, calibrated to National Standards prior to delivery to site, were used for the stressing operation. These jacks are of the most modern design available, incorporating automatic gripping of each of the strands individually and a hydraulic lock-off mechanism.



A pre-bagged special grout meeting the requirements of Concrete Society Technical Report 47 was specified. Grout tests were carried out in accordance with BS EN445. Anchorages were encapsulated by permanent grout caps. Fully detailed records of the strand installation, stressing and grouting work were maintained in accordance with CARES Scheme requirements.

This project won George Hutchison Associates prestigious Small Project awards from both IStructE and ACE in 2008. We are proud to have played our part.



Balvac, the UK and Ireland licensee of the MK4 Post Tensioning System, can also offer a full range of internal and external, bonded and unbonded, post tensioning systems for a wide range of structures such as bridges, building slabs, tanks and silos. In addition to new build work Balvac can also undertake tendon monitoring and strengthening works on existing structures.

Balvac

Sherwood House, Gadbrook Business Centre, Rudheath, Northwich,
Cheshire. CW9 7TN

Tel : 01606 333036 Fax : 01606 812497

e-mail : enquiries.balvac@balvac.co.uk

www.balvac.co.uk