

# Case Study

## HARLEQUINS RFC, THE STOOP SOUTH STAND

**Client:** Harlequins RFC

**Main Contractor:** Slick Systems Ltd

**Anchor Installer:** [Topbond Plc](#)

### PROJECT SPECIFICATION

The temporary South Stand at The Stoop was being replaced with a 2256 seat permanent covered stand. Calculations suggested that the windloading on the roof could cause excessive uplift to the foundations - the front row of foundations needed a hold down force of 70kN and the rear row 45kN. Timescale and economics dictated that an anchored solution was more favourable than casting larger foundation blocks.

### SOLUTION

Following site testing it was determined that the B10 anchor installed to a depth of 4m, loadlocked and then tied into the foundation block reinforcement would be suitable. The concrete of the foundation could then be poured, providing a securely anchored foundation point for the attachment of the roof supports. The rear row of smaller B6 anchors were terminated with a loop, allowing the roof structure to be directly attached.

**Anchor System:** B10TC galvanised spheroidal graphite iron anchor c/w 5m of 16mm Ø galvanised steel wire tendon, 200mm x 200mm galvanised steel load plate and 16mm steel wedge grip. B06TC galvanised spheroidal graphite iron anchor c/w 5m of 12mm Ø galvanised steel wire tendon and three wire rope grips.

**Quantity:** 9 x B10, 8 x B06

**Anchor Design Life:** 5yrs

**Soil Type:** Gravel

