

Summary of Decisions of the Structural Engineering Committee
SEC Meeting 10/2016 held on 7.11.2016

Case 28/2016

Issue: Use of 63.5mm diameter high strength BBV Grade 75 (grade 555/700) hot rolled thread bars and BBV Straight Round coupler in Mini-piles socketed into Rock

Recommendation: To accept the use of 323.9mm diameter mini-piles foundation comprising 4 numbers of 63.5mm diameter high strength BBV Grade 75 (Grade 555/700, i.e. $f_y = 520$ MPa) hot rolled thread bars with BBV straight round coupler socketed into Grade III or better rock.

Decision: Having noted the background information together with the following clarifications made by the RSE, members endorsed the recommendations:

- (a) Deformed bars shall conform to the requirements for deformed bars in ASTM A615/A615M following ACI 318. The allowable bond stress between BBV bar and grout will be taken as 800kPa;
- (b) Noting that there is limited capability for local laboratories to carry out tension testing of the concerned material, all tests on the BBV Grade bars and the Straight Round Coupler with Lock Nut Big and pile head Anchor Nut system should be carried out by laboratory accreditation bodies which had reached mutual recognition agreements/arrangements with HOKLAS and witnessed by the RSE or his representative, who is to be a qualified professional engineer.