

Case Study

Service: Proof Loading Anchors

Location: Micawber Street, London

Client: Ardmore Construction Ltd

Swantest were employed to carry out a series of proof load tests on M12 post installed anchors which had been resin fixed into an existing concrete slab.

These anchors were safety critical as they were used as anchor points for fixing the balcony balustrades to the slab. Proof loading these bolts was imperative for the design procedures and for ensuring actual onsite installation quality, hence ensuring stability and protection provided by the handrail.

We conducted 25nr. Pull Out Proof load tests in total, recording applied load and movement. These tests are executed in a way that does not inflict any adverse loading or damage to the anchors.

Should any anchor fail we would investigate the contributing reasons and liaise with the project manager, installer and design team to avoid repeating occurrences.

All tests are in accordance BS8539:2012, and CFA Procedures for Site Testing Construction Fixings 2012

Swantest have the equipment to proof load any required diameter of post or pre-installed anchor to any specified load.

Key to images:

1. Micawber Street site (Ardmore) - Showing balconies & balustrades on completed section of the building
2. Proof loading an anchor
3. Tested anchor – Clearly numbered & sprayed white showing it has been tested

