

Case Study

Service: Floor Load Capacity Test

Location: Stanhope Gate, London

Client: Erith Demolition

Swantest was employed by Erith Demolition to do 1 floor load tests at 6 Stanhope Gate, London.

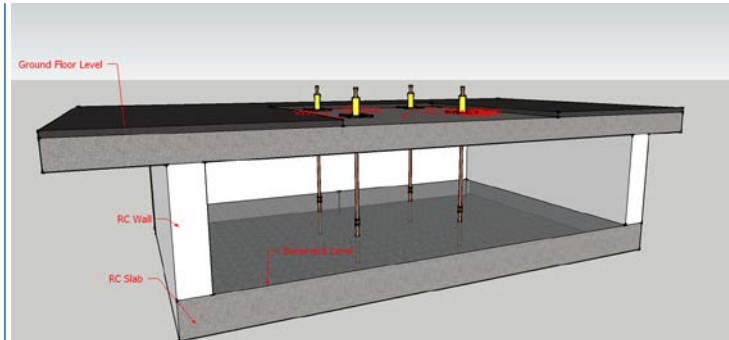
No.6 Stanhope Gate building it is a steel frame structure with concrete slabs made from 150mm thick reinforced concrete precast planks. Ground floor slab it is a 350mm reinforced concrete slab and basement slab it is 450mm reinforced concrete slab.

Our client required a load test on the ground floor slab. He wants to use the ground floor as a loading bay for lorries and skips that will be involved in the future demolition works.

Four 450mm deep resin anchors were installed in the basement floor slab for creating a restrain base for our test.

Prior to testing, the floor slabs and soffits at each level were checked for any signs of existing cracking or distress. The heights from floor to ceiling at each level were also noted. At each increment of loading the heights from floor to ceiling were recorded again to note any deflection

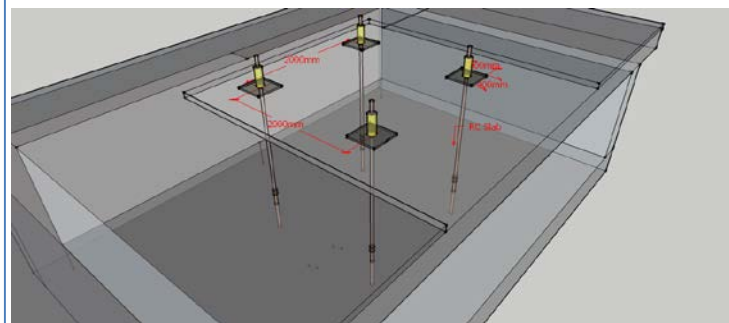
A total of 1200kN was applied on the ground floor without significant distress for slab or structure.



Section of no.6 Stanhope Gate building



Test area in no.6 Stanhope Gate building



View of test area in no.6 Stanhope Gate building