

## Case Study

**Service:** Floor Loading Test  
**Location:** 11-15 Monument Street,  
 London, EC3R 8AB  
**Client:** McGee

Swantest were contracted by McGee's at No. 11-15 Monument Street, to conduct a floor loading test on an existing clay pot floor slab. The purpose of this test is to determine the safe working load capacity of existing slabs – whether this be for supporting machinery or plant during demolition or to assess a slabs capability to support additional loads in a change of purpose situation.

The aim of this test was to determine if the slab was capable of supporting the load of a 5 tonne excavator plus demolition arising's. Using hydraulic equipment we were able to induce a load of 15 tonne on the slab being tested while utilising lower slabs as a reaction load – see Figure 2. The slab is loaded incrementally and carefully monitored for deflections & distress throughout the test.

Our clients benefit from having a detailed report outlining existing slab capabilities, construction detail and dimensions. This type of test often proves that an existing slab may have a higher load capability than calculations can show, meaning our clients can utilise larger demolition machinery, and in return reduce time and cost on site.

This type of load test can be carried out in a number of variations depending on the specific site set up.

Key to images:

1. Typical hydraulic equipment set up for floor loading tests.
2. Cross-section through building showing typical test configuration.
3. Underside of clay pot floor stripped to show the size & spacing's of ribs and pots

