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Building and Construction Authority

We shape a **safe, high quality, sustainable** and **friendly** built environment.

build smart

A CONSTRUCTION PRODUCTIVITY MAGAZINE **OCT 2013**

FASTER WAY OF DOING PILE LOAD TEST: THE STATRAPID



Kentledge pile loading test with concrete blocks

The machine was developed based on principles from the rapid load testing process, and can lift weights that are up to four metres high

Gone are the days where many heavy concrete blocks were stacked to test for pile capability. The StatRapid, a new rapid load testing equipment, is an alternative to the traditional static load testing method. With the StatRapid, the construction process is faster and lighter, and uses less labour.

Each StatRapid comprises a modular drop mass, a catch mechanism and a modular soft spring system. The mechanism of assembling and dismantling concrete blocks is not as complex as the conventional method, and is hydraulically operated, requiring few men to carry out the operation.

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The development of the StatRapid is based on principles from the rapid load testing process. Advances in technology aided the development of this self-contained machine, which is capable of loading weights of up to four metres high. Adhering to the rapid load testing principles, the loading pulse generated on the pile by the StatRapid is equivalent to that of the static load testing method.

StatRapid

- **What it is:**
A rapid load testing equipment that assembles and dismantles concrete blocks quickly.
- **Benefits:**
With the StatRapid, only 6 workers are needed for every pile load test, which can be completed in 2 days. Using concrete blocks, 18 workers are needed, and 16 days are required for completion.

Get Support to Invest in the StatRapid

The Building and Construction Authority's (BCA) Productivity Improvement Project (PIP) Scheme encourages contractors and prefabricators to embark on development projects that build up their capability and improve their site processes for higher site productivity. Find out how PIP can support your investment in technologies like the StatRapid by visiting this link:

<http://www.bca.gov.sg/PIP/pip.html>.

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Building and Construction Authority
5 Maxwell Road, #16-00 Tower Block MND Complex Singapore 069110
Tel: 1800-342 5222 Fax: 6325 4800 Website: <http://www.bca.gov.sg>

Questions? Comments?
Email us at
bca_enquiry@bca.gov.sg