



PAPWORTHS CONSTRUCTION TESTING EQUIPMENT

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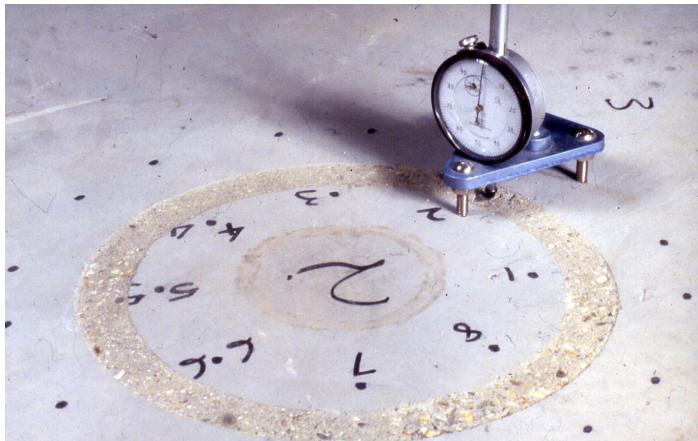
The BCA (Chaplin) Abrasion Tester

Introduction



The BCA (Chaplin) Abrasion Tester gives a guide to the abrasion resistance of concrete floors. It can also be used to test the effectiveness of surface treatments used to protect or upgrade sub-standard floors.

The depth of wear in the concrete floor brought about by the action of 75mm diameter by 20mm wide hardened steel wheels is used as a guide to the abrasion resistance.



The apparatus is suitable for compliance testing to the requirements of BS 8204: 1987: Part 2 and EN 13892-4.

Description

The abrasion tester consists of three 75mm diameter hardened steel wheels mounted tangentially on a circular steel carrier plate. The wheels are fitted such that they are free to rotate but not castor.

The carrier plate is connected to a single phase electric motor which runs at approximately 190 rpm. mounted in a steel frame.

An umbilical cable connects the electric motor to a small control box, which monitors the number of revolutions



power to the electric motor.

During a test, the Abrasion Tester is completely covered by a Safety Enclosure which reduces the noise level and prevents access to the rotating parts of the machine.

executed by the shaft of the motor.

At the end of a preset number of revolutions, a counter in the control box switches off the



Specification

	H	W	D	Weight
Abrasion Tester	585m m	345m m	345mm	66kg
Safety Enclosure	750m m	500m m	500mm	
Cooling Fan	150m m dia.			
Electronic Control Box	200m m	120m m	250mm	

The enclosure has a Safety 'Off' switch and is also fitted with micro-switches at the bottom which switch off the Tester if the enclosure is raised.

Electronic Depth Gauge

A tripod gauge with a user selectable resolution of 0.01mm or 0.0005".

The battery operated gauge is fitted with a zero button and an ON/OFF switch.

