

Testing Venue.

The test was completed by the Engineering Department, Faculty of Applied Sciences at Lancaster University.

Tests 1 and 2 were completed on the 3rd September 2008, test 3 was completed on 22nd September 2008.

Cover

The cover supplied is a circular composite cover.



The cover was seated in its own composite frame, which had an outside diameter of 965mm and a depth of 150mm. (See photo.2)



Test Rig

The test rig consists of a 'giant mecano' frame bolted to the floor and supporting the Enerpac 50 tonne hydraulic cylinder.



Test

- The test was a simple load to failure in steps of 20kN.
- The load was applied to the cover through a 250mm diameter x 35mm thick steel block with a 250mm diameter x 25mm rubber pad between the block and cover.
- The load was measured using a 1000kN load cell (serial no. 3243N) and digital load indicator (serial no. D.I.B.1).
- The deflection was measured at the centre on the underside of the cover using a dial indicator.

