

Testing Venue.

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

Test 1 was completed on the 22nd August, test 2 was completed on the 1st September 2008, and test 3 was completed on 10th September 2008.

Cover

The cover supplied is a 768mm x 668mm x 135mm rectangular composite cover.

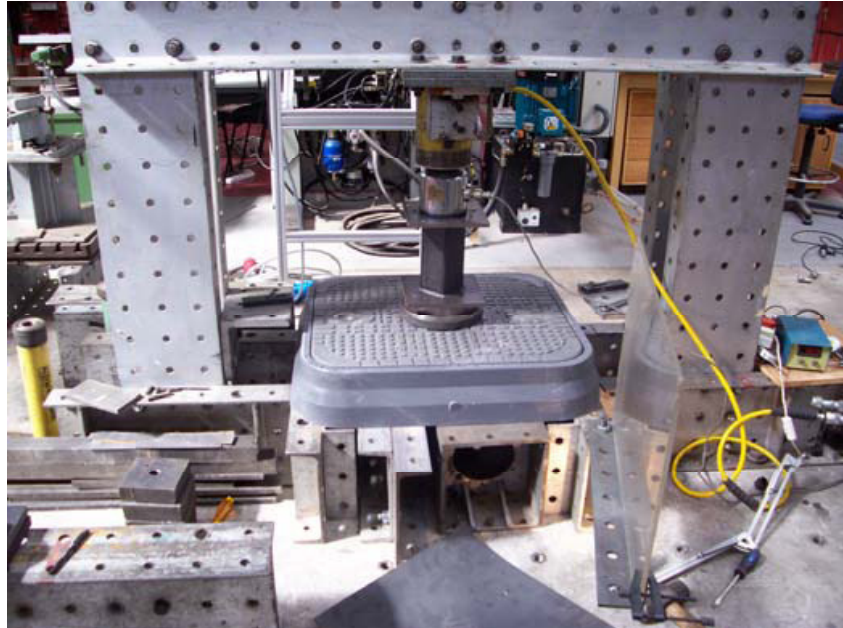


The cover was seated in its own composite frame.



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.

Results

