

Mixer Efficiency Tests

NZRMCA Technical Note 5



During the past few months there has arisen a number of matters concerning the ME test and interpretation of results.

NZS 3104:2003 has two options on the numbers of test cylinders made at $\frac{1}{6}$ and $\frac{5}{6}$ positions in the load.

Either use five cylinders and average the result or use two cylinders and **provided they fall within a range of 2 MPa**, average the result.

We have received ME results, which breach this 2 MPa individual range, but yet the overall result of the two full sets comply with the 3 MPa or 10% f_c rule.

The Standard states that if the 2 MPa range is breached a new test is required.

It appears to the Committee that using three cylinders and taking an average is a way of dealing with the limitation of the 2 MPa range on two cylinders.

Hence while plants can choose to use five or two cylinders strictly in accordance with NZS 3104, the Committee recommends that a minimum of three cylinders be taken to reduce the risk of a single cylinder result requiring the test to be repeated.



Prepared by the NZRMCA Plant Audit Committee in conjunction with the NZRMCA Technical Committee, 18 January 2008.