

The test samples have been retained so that chemical testing can be undertaken if needed to confirm if the samples had been affected by heat from the fire that occurred after the collapse.

In conclusion, at the time of the tests, subject to there being no detrimental effects on the concrete test samples from heat from the post-collapse fire, the Level 1 400 mm square column concrete would not have complied with the requirements of concrete with the specified 28-day strength of 35 MPa nor 15 MPa.

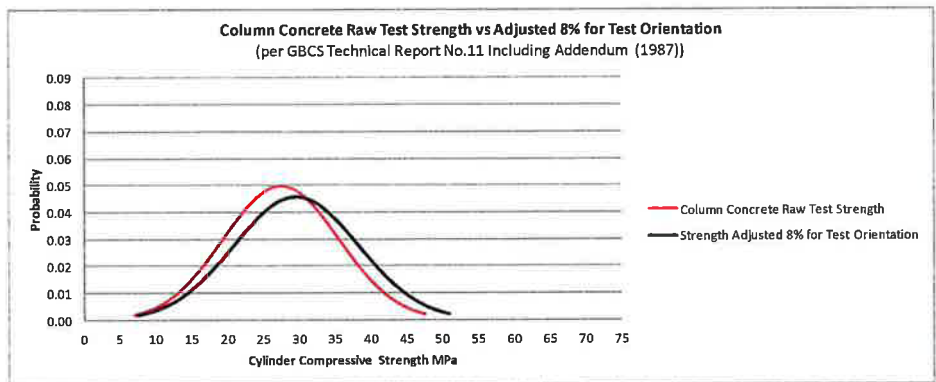


Figure 49 Column concrete test strengths compared to strengths adjusted 8% for test orientation being transverse to direction of concrete casting. This adjustment in test strength was recommended by the Concrete Society Technical Report 11 “Concrete Core Testing for Strength”.

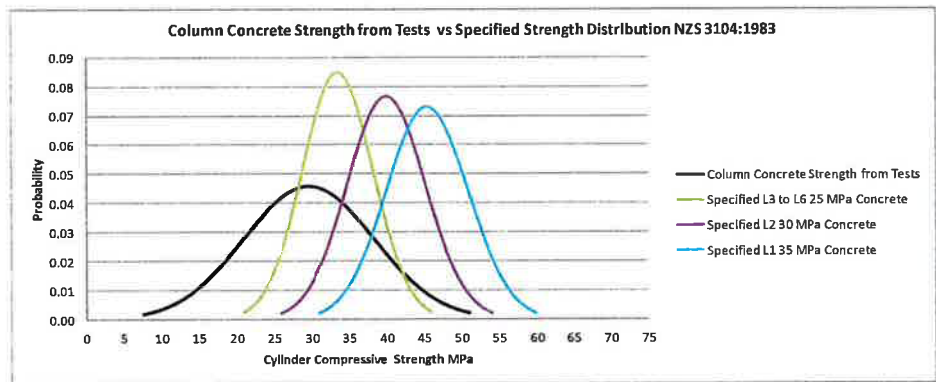


Figure 50 Column strengths from tests adjusted 8% for test orientation vs 28-day concrete strength distribution according to NZS3104:1983