

- IAEA guidebook on non-destructive testing of concrete structures, Vienna 2002;
- ACI 228.1R-03 ACI committee report; in place methods to estimate concrete strength.

VII. Conclusion: limitations and reliability.

Ultrasonic method is a great way to study the homogeneity of the concrete. The procedure is simple; the equipment available on the market is easy to use in the laboratory and on site. With the availability of small portable digital instruments, which are relatively inexpensive and easy to use, ultrasonic testing adds a new dimension to the quality of nondestructive testing of in-situ concrete. Since a large number of variables affect the relationship between the parameters of concrete strength and UPV, its use to evaluate the compressive strength of concrete is not recommended unless correlation tests were performed beforehand.

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