

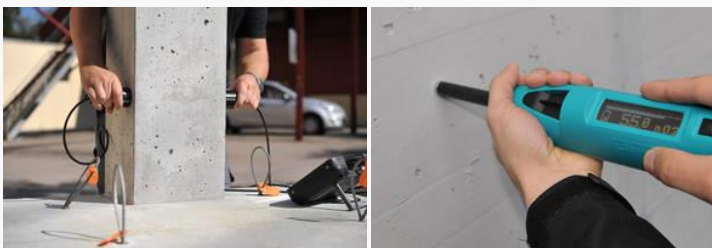
Pundit / RockSchmidt

SONREB - combining methods to most accurately evaluate concrete strength

The in-situ compressive strength of concrete can be influenced by numerous factors, such as carbonation, amount of reinforcing steel, the location of the reinforcing steel or the aggregate size.

It has been shown that the most accurate compressive strength estimation can be determined by combining different testing techniques. The correlation of data from the Schmidt hammer and Pundit ultrasonic tester to the existing compressive strength data has been found to be a more accurate predictor of compressive strength.

Researchers have developed an algorithm whereby the R or Q value from the Schmidt hammer and the compression wave velocity from the Pundit can be correlated with actual compressive strength of the concrete. The algorithm can then be applied to either the Schmidt hammer or Pundit alone. The correlation of the different testing methods with actual compressive strength is commonly known as the SONREB (SONic REBound) method.



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