

Fugro TCP3 Sonic Integrity Logger

The Fugro TCP3 Sonic Integrity Logger is a tool for testing the integrity of deep foundations including drilled shafts and auger pressure grouted piles. The logger measures the travel time and signal strength of ultrasonic waves that are transmitted from a source to a receiver. Sonic integrity testing using Fugro's TCP3 system can detect defects virtually anywhere in the deep foundation. Possible defects include honey combing and segregation of concrete, necking, inclusion of foreign material, voids, and arching cracks due to shrinkage. This method minimizes the risks associated with deep foundation installations and provides confidence that the concrete structures have been installed as they were designed. Sonic integrity testing is performed along the entire foundation length through cast-in-place access tubes installed during construction. Testing with this system may be conducted both immediately after foundation installation, which allows immediate correction while the concrete or grout is still fluid, as well as and after the deep foundation concrete is cured.

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