

1.14.25. THE ULTRASONIC TOMOGRAPHY TESTS OF CONCRETE IN FOUNDATION SLAB

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This paper deals with the modern nondestructive elastic-wave testing of concrete in foundation slab of building put under the ground water level. The reason for the tests was assumption that the contractor make thin the foundation slab than the design and after that the slab was damage. The tests were carried out to check the thickness of slab according to the design, and to assess the technical condition of the foundation slab to take a decision about the range of repairs to be done to or about their strengthening. The Ultrasonic Tomography technique and Impulse Response, Impact-Echo, ultrasonic, electric and electromagnetic techniques (in a support role) were used in the tests. The nondestructive test results and the analyses carried out on their basis, corroborated by exposures, have not been published before.