

3. Subsidence Behavior of a Composite-foundation Building During Construction - Comparison Between Measurement and Analysis Results -

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A high-rise building that integrated low- and high-rise buildings was supported by composite spread and piled-raft foundations. The subsidence behavior of the foundations was identified during construction in such terms as the subsidence of foundations and the distribution of loads between piles and rafts, based on the measurements taken in the period between the start and end of construction work. The subsidence behavior predicted in analysis was compared with a test result and the validity of the analysis method was verified. As a result, the reliability of the method of designing the composite foundations was enhanced.

Keywords: composite-foundation, differential settlement, piled-raft foundation