
Improvement of performance of post-installed anchors for jointing longitudinal reinforcing bars

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In underground structures such as subway station buildings, improvement work is being diligently promoted with the aim of improving the convenience and comfort of facilities and improving their functions, and it is essential to join existing structures and new structures in such construction. During the construction, as a measure to fix the longitudinal rebar of the new structure to the existing structure, the so-called post-installed anchor method is often adopted, in which drilling and fixing material are injected into the joint surface on the side of the existing structure. Here, with regard to the fixing length, it is an urgent issue to rationally reduce the fixing length while approaching the characteristics of the integrated member in terms of bearing strength and toughness. Therefore, in this study, we will examine measures to improve the performance of post-installed anchors that can ensure the performance of overlapping joints with existing reinforcing bars and reduce the fixing length.
