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**A STUDY OF THE GROUPED ARRANGEMENTS OF STUD CONNECTORS ON SHEAR STRENGTH BEHAVIOR**
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Firstly, failure mode and shear strength of stud connectors were investigated based on push-out test results. Secondly, the practicability of a proposed analytical method was verified on the basis of a comparison with test results and the failure mechanism of the grouped arrangement was investigated. Lastly, parametric analyses on concrete strength and on the longitudinal spacing of stud connectors were conducted and shear strength reduction equations of the grouped arrangement of stud connectors were proposed.

**Key Words:** push-out test, stud connector, grouped arrangement, shear strength

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