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ULTIMATE STRENGTH OF T-SHAPED AND CROSS-SHAPED SOCKET JOINTS BETWEEN STEEL BEAM AND CONCRETE-FILLED STEEL TUBULAR COLUMN

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The authors have proposed an equation for estimating the ultimate strength of T-shaped socket joints. However, the effect of cyclic loading and external diagphragms, applicability to the cross-shaped joint and other issues must be verified. Therefore, the static loading tests by using the T-shaped joint specimens were carried out in order to investigate the effects of loading method and the diaphragm. Monotonic static loading tests by using the cross-shaped joint specimens were also carried out. The test results indicate that the loading method and the diaphragm affect the ultimate strength, and that the application of the proposed method to the cross-shaped joint is promising.

Key Words: concrete-filled steel tube, joint, ultimate strength, cyclic loading, diaphragm

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